

LAMPIRAN



**PROGRAM STUDI TEKNIK INFORMATIKA S-1
FAKULTAS TEKNOLOGI INDUSTRI
INSTITUT TEKNOLOGI NASIONAL MALANG
Jl. Raya Karanglo KM-02, Singosari, Kabupaten Malang**

**BERITA ACARA UJIAN SKRIPSI
FAKULTAS TEKNOLOGI INDUSTRI**

**Nama : Tenti Pristiani
Nim : 1718077
Jurusan : Teknik Informatika S-1
Judul : Aplikasi Forecasting Penjualan Kerajinan Batu Menggunakan
Metode Linear Regression (Studi Kasus : CV. Bukit Mulia)**

Dipertahankan Dihadapan Majelis Penguji Skripsi Jenjang Strata Satu(S-1)
Pada

**Hari : Senin
Tanggal : 18 Januari 2021
Nilai : A**

**Panitia Ujian Skripsi
Ketua Majelis Penguji**

**Survo Adi Wibowo, ST, MT
NIP.F 1031100438**



**PROGRAM STUDI TEKNIK INFORMATIKA S-1
FAKULTAS TEKNOLOGI INDUSTRI
INSTITUT TEKNOLOGI NASIONAL MALANG
Jl. Raya Karanglo KM-02, Singosari, Kabupaten Malang**

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**Hari : Senin
Tanggal : 18 Januari 2021
Nilai : A**

**Panitia Ujian Skripsi
Dosen Pembimbing I**

**Mira Orisa, ST, MT
NIP.P 1031000435**



**PROGRAM STUDI TEKNIK INFORMATIKA S-1
FAKULTAS TEKNOLOGI INDUSTRI
INSTITUT TEKNOLOGI NASIONAL MALANG
Jl. Raya Karanglo KM-02, Singosari, Kabupaten Malang**

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Pada

**Hari : Senin
Tanggal : 18 Januari 2021
Nilai : A**

**Panitia Ujian Skripsi
Dosen Pembimbing II**

**Febriana Santi Wahyuni, S.Kom, M.Kom
NIP.P 1031000425**



FORMULIR PERBAIKAN SKRIPSI

Dalam pelaksanaan ujian skripsi jenjang Strata 1 Program Studi Teknik Informatika ,
maka perlu adanya perbaikan skripsi untuk mahasiswa :

NAMA : Tenti Pristiani
NIM : 1718077
JURUSAN : Teknik Informatika S-1
JUDUL : APLIKASI FORECASTING PENJUALAN KERAJINAN BATU
MENGUNAKAN METODE LINEAR REGRESSION
(STUDI KASUS : CV. BUKIT MULIA)

No.	Penguji	Tanggal	Uraian	Paraf
1.	Penguji I	18 Januari 2021	<ol style="list-style-type: none">1. Judul menggunakan Regretion atau Regression2. Latar belakang belum ada rujukannya, kenapa berbasis internet?3. Rumusan masalah sinkron dengan tujuan4. Kebutuhan non-fungsional5. DFD Level 1 ada data flow yang tidak bernama6. ERD belum ada primary key7. Pengujian user belum ada8. Ganti variabel sebab menggunakan bebas/dependen atau variabel akibat menggunakan terikat/independen9. Tampilan forecasting	

Dosen Penguji I

Dr. Agung Panji Sasmito, S.Pd., M.Pd.
NIP.P 1031500499




**PROGRAM STUDI TEKNIK INFORMATIKA S-1
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INSTITUT TEKNOLOGI NASIONAL MALANG
Jl. Raya Karanglo KM-02, Singosari, Kabupaten Malang**


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JURUSAN : Teknik Informatika S-1
JUDUL : APLIKASI FORECASTING PENJUALAN KERAJINAN BATU
MENGUNAKAN METODE LINEAR REGRESSION
(STUDI KASUS : CV. BUKIT MULIA)

No.	Penguji	Tanggal	Uraian	Paraf
1.	Penguji II	18 Januari 2021	1. Persamaan error 2.6 agar dibetulkan	

Dosen Penguji II



Dr. Ir. Sentot Achmadi, M.Si

NIP.P 1093500281



FORMULIR PERBAIKAN SKRIPSI

Dalam pelaksanaan ujian skripsi jenjang Strata 1 Program Studi Teknik Informatika ,
maka perlu adanya perbaikan skripsi untuk mahasiswa :

NAMA : Tenti Pristiani
NIM : 1718077
JURUSAN : Teknik Informatika S-1
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(STUDI KASUS : CV. BUKIT MULIA)

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2.	Penguji II	18 Januari 2021	<ol style="list-style-type: none">10. Persamaan error 2.6 agar dibetulkan

Dosen Pembimbing I

Mira Orisa, ST, MT
NIP.P 1031000435



FORMULIR PERBAIKAN SKRIPSI

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2.	Penguji II	18 Januari 2021	<ol style="list-style-type: none">10. Persamaan error 2.6 agar dibetulkan

Dosen Pembimbing II

Febriana Santi Wahyuni, S.Kom, M.Kom
NIP.P 1031000425



PERKUMPULAN PENGELOLA PENDIDIKAN UMUM DAN TEKNOLOGI NASIONAL MALANG
INSTITUT TEKNOLOGI NASIONAL MALANG

FAKULTAS TEKNOLOGI INDUSTRI
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
PROGRAM PASCASARJANA MAGISTER TEKNIK

PT. BNI (PERSERO) MALANG
BANK NIAGA MALANG

Kampus I : Jl. Bendungan Sigura-gura No. 2 Telp. (0341) 551431 (Hunting), Fax. (0341) 553015 Malang 65145
Kampus II : Jl. Raya Karanglo, Km 2 Telp. (0341) 417636 Fax. (0341) 417634 Malang

Malang, 20 Oktober 2020

Nomor : ITN-04-170/III-T.INF/TA/2020
Lampiran : ---
Perihal : Pembimbing Utama Skripsi

Kepada : Yth. Bpk/Ibu Mira Orisa, ST, MT
Dosen Pembina Program Studi Teknik Informatika S-1
Institut Teknologi Nasional
Malang

Dengan Hormat,
Sesuai dengan permohonan dan persetujuan dalam proposal skripsi untuk mahasiswa :

Nama : TENTI PRISTIANI
Nim : 1718077
Prodi : Teknik Informatika S-1
Fakultas : Teknologi Industri

Maka dengan ini pembimbingan kami serahkan sepenuhnya kepada Saudara/i selama waktu 6 (enam) bulan, terhitung mulai tanggal :

13 Agustus 2020 S/D 13 Februari 2021

Sebagai satu syarat untuk menempuh Ujian Akhir Sarjana Teknik, Program Studi Teknik Informatika S-1.
Demikian agar maklum dan atas perhatian serta bantuannya kami sampaikan terima kasih.

Mengetahui
Program Studi Teknik Informatika S-1
Ketua,



Suryo Adi Wilowo, ST., MT.
NIP.P. 1031100438



PERKUMPULAN PENGELOLA PENDIDIKAN UMUM DAN TEKNOLOGI NASIONAL MALANG
INSTITUT TEKNOLOGI NASIONAL MALANG

FAKULTAS TEKNOLOGI INDUSTRI
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Malang, 20 Oktober 2020

Nomor : ITN-04-170/III-T.INF/TA/2020
Lampiran : ---
Perihal : Pembimbing Pendamping Skripsi

Kepada : Yth. Bpk/Ibu Febriana Santi Wahyuni, S.Kom.M.Kom
Dosen Pembina Program Studi Teknik Informatika S-1
Institut Teknologi Nasional
Malang

Dengan Hormat,
Sesuai dengan permohonan dan persetujuan dalam proposal skripsi untuk mahasiswa :

Nama : TENTI PRISTIANI
Nim : 1718077
Prodi : Teknik Informatika S-1
Fakultas : Teknologi Industri

Maka dengan ini pembimbingan kami serahkan sepenuhnya kepada Saudara/i selama waktu 6 (enam) bulan, terhitung mulai tanggal :

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Mengetahui
Program Studi Teknik Informatika S-1
Ketua,



Suryo Adi Wilowo, ST., MT.
NIP.P. 1031100438

FORMULIR BIMBINGAN SKRIPSI

Nama : Tenti Pristiani

Nim : 1718077

Masa Bimbingan : 13 Agustus 2020 S/D 13 Februari 2021

Judul Skripsi : Aplikasi *Forescasting* Penjualan Kerajinan Batu Menggunakan Metode *Linear Regression* (Studi Kasus : CV. Bukit Mulia)

No	Tanggal	Uraian	Paraf Pembimbing
1	26 Oktober 2020	Membahas jalannya program	
2	01 November 2020	Membahas data	
3	02 November 2020	Membahas input dan output sistem	
4	27 November 2020	Makalah Seminar Hasil	
5	02 Desember 2020	Membahas BAB III	
6	07 Desember 2020	Revisi Laporan Skripsi	
7	06 Januari 2021	Revisi Habis Semhas	
8	07 Januari 2021	Membicarakan penambahan pengujian	
9	08 Januari 2021	Laporan Kompre	
10	08 Januari 2021	ACC Lembar Pengesahan	

Malang, 02 November 2020

Dosen Pembimbing



Mira Orisa, ST, MT

NIP. P. 1031000425

FORMULIR BIMBINGAN SKRIPSI

Nama : Tenti Pristiani
Nim : 1718077
Masa Bimbingan : 13 Agustus 2020 S/D 13 Februari 2021
Judul Skripsi : Aplikasi *Forescasting* Penjualan Kerajinan Batu Menggunakan Metode *Linear Regression* (Studi Kasus : CV. Bukit Mulia)

No	Tanggal	Uraian	Paraf Pembimbing
1	28 Oktober 2020	- Membuat simulasi perhitungan metode menggunakan Excel	<i>toni</i>
2	17 November 2020	- Pemberian judul aplikasi didalam program - Penambahan fitur penjualan	<i>toni</i>
3	21 November 2020	- Revisi Bab 1, 2 & 3	<i>toni</i>
4	21 November 2020	- Pemberian label pada grafik forecasting - Label grafik diperjelas berdasarkan data - Penambahan fitur transaksi	<i>toni</i>
5	05 Desember 2020	- Program FIX	<i>toni</i>
6	08 Desember 2020	- Revisi Makalah	<i>toni</i>
7	09 Desember 2020	ACC SEMHAS	<i>toni</i>
8	05 Januari 2021	- Revisi Bab 4 & 4	<i>toni</i>
9	06 Januari 2021	- Revisi Laporan	<i>toni</i>
10	07 Januari 2021	ACC KOMPRES	<i>toni</i>

Malang, 08 Januari 2021
Dosen Pembimbing



Febriana Santi Wahyuni, S.Kom. M.Kom
NIP. P. 1031000425



CV. BUKIT MULIA

Jl. Raya Popoh Gamping, Campurdarat
Tulungagung, 66272 Jawa Timur
telepon : 0812-8631-3688

Nomor : 005/SK-BM/III/2021
Lampiran : -
Perihal : Perijinan Observasi

Kepada Yth.

Ketua Program Studi T. Informatika
di Institut Teknologi Nasional Malang

Dengan hormat,

Menindaklanjuti surat Penelitian Skripsi Nomor :ITN-9-160/III.T.INF/2020 dengan ini menerangkan bahwa Mahasiswi Fakultas Teknologi Industri, Program Studi Teknik Informatika S-1 Teknologi Nasional Malang :

Nama : Tenti Pristiani
NIM : 1718077

Telah melakukan Penelitian/Pengambilan Data/Survei untuk penelitian survey, pada tanggal 16 Oktober – 16 November 2020 di CV. Bukit Mulia Jl. Raya Popoh, Gamping, Campurdarat Tulungagung.

Demikian Surat Balasan ini dibuat untuk dipergunakan sebagaimana mestinya.

Tulungagung, 08 Januari 2021

Pemilik,

CV. BUKIT MULIA
STONE HANDICRAFTS

Janjang Kurniawan

DATA PENELITIAN



INVOICE

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
1	9/19/2017	BMPIIX2017001	G3-Marmer	Guci	Rp 1,200,000.00	Black	1	Rp 1,200,000.00	Rp 1,200,000.00
2	9/21/2017	BMPIIX2017002	G3-Marmer	Guci	Rp 1,200,000.00	Black	1	Rp 1,200,000.00	Rp 5,950,000.00
3			W22-Zeolite	Wastafel	Rp 750,000.00	Green Zeolite	1	Rp 750,000.00	
4			G2-Marmer	Guci	Rp 2,000,000.00	Black	1	Rp 2,000,000.00	
5			M1-Onyx	Meja	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
6	11/2/2017	BMPIXI2017003	A1-Marmer	Asbak	Rp 450,000.00	Natural	3	Rp 1,350,000.00	Rp 7,200,000.00
7			K1-Onyx	Kursi	Rp 800,000.00	Natural	4	Rp 3,200,000.00	
8			W1-Marmer	Wastafel	Rp 650,000.00	Beige	1	Rp 650,000.00	
9			G2-Marmer	Guci	Rp 2,000,000.00	Black	1	Rp 2,000,000.00	
10	12/10/2017	BMPIXII2017004	M2-Marmer	Meja	Rp 3,500,000.00	Natural	1	Rp 3,500,000.00	Rp 8,500,000.00
11			G3-Marmer	Guci	Rp 1,200,000.00	Black	2	Rp 2,400,000.00	
12			G1-Marmer	Guci	Rp 1,300,000.00	Black	2	Rp 2,600,000.00	
13	12/17/2017	BMPIXII2017005	W26-Onyx	Wastafel	Rp 850,000.00	Natural Onyx	2	Rp 1,700,000.00	Rp 1,700,000.00
14	1/6/2018	BMPII2018006	W9-Marmer	Wastafel	Rp 890,000.00	Black	1	Rp 890,000.00	Rp 11,645,000.00
15			W3-Marmer	Wastafel	Rp 650,000.00	Beige	1	Rp 650,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
16			W13-Marmer	Wastafel	Rp 1,500,000.00	Beige	1	Rp 1,500,000.00	
17			A3-Onyx	Asbak	Rp 410,000.00	Beige	1	Rp 410,000.00	
18			G25-Marmer	Guci	Rp 2,220,000.00	White	1	Rp 2,220,000.00	
19			G25-Marmer	Guci	Rp 2,220,000.00	Black	1	Rp 2,220,000.00	
20			G1-Marmer	Guci	Rp 1,300,000.00	White	1	Rp 1,300,000.00	
21			W16-Onyx	Wastafel	Rp 750,000.00	Natural Onyx	1	Rp 750,000.00	
22			W33-Marmer	Wastafel	Rp 1,150,000.00	Black	1	Rp 1,150,000.00	
23			W32-Marmer	Wastafel	Rp 555,000.00	Beige	1	Rp 555,000.00	
24			1/15/2018	BMPH2018007	M3-Onyx	Meja	Rp 1,500,000.00	Natural	
25	W21-Zeolite	Wastafel			Rp 780,000.00	Green Zeolite	2	Rp 1,560,000.00	
26	W34-Marmer	Wastafel			Rp 550,000.00	Beige	1	Rp 550,000.00	
27	G3-Marmer	Guci			Rp 1,200,000.00	Black	1	Rp 1,200,000.00	
28	A2-Marmer	Asbak			Rp 475,000.00	Natural Onyx	2	Rp 950,000.00	
29	G3-Marmer	Guci			Rp 1,200,000.00	White	1	Rp 1,200,000.00	
30	W1-Marmer	Wastafel			Rp 1,200,000.00	Black	1	Rp 1,200,000.00	
31	G1-Marmer	Guci			Rp 1,800,000.00	White	2	Rp 3,600,000.00	
32	2/1/2018	BMPH32018008			G1-Marmer	Guci	Rp 1,800,000.00	Black	2
33			G3-Marmer	Guci	Rp 1,200,000.00	Black	1	Rp 1,200,000.00	
34			G1-Marmer	Guci	Rp 1,800,000.00	White	1	Rp 1,800,000.00	
35			G2-Marmer	Guci	Rp 2,000,000.00	Black	1	Rp 2,000,000.00	
36			W1-Marmer	Wastafel	Rp 650,000.00	Beige	3	Rp 1,950,000.00	
37			W24-Zeolite	Wastafel	Rp 1,050,000.00	Beige	2	Rp 2,100,000.00	
38			A3-Onyx	Asbak	Rp 410,000.00	Natural	4	Rp 1,640,000.00	
39			W33-Marmer	Wastafel	Rp 1,150,000.00	Beige	1	Rp 1,150,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
40			M2-Marmer	Meja	Rp 2,000,000.00	Natural	1	Rp 2,000,000.00	
41			W33-Marmer	Wastafel	Rp 1,150,000.00	Black	1	Rp 1,150,000.00	
42			A1-Marmer	Asbak	Rp 450,000.00	Natural	3	Rp 1,350,000.00	
43			W40-Marmer	Wastafel	Rp 750,000.00	Beige	1	Rp 750,000.00	
44	3/23/2018	BMPIII2018009	K2-Marmer	Kursi	Rp 250,000.00	White	6	Rp 1,500,000.00	Rp 11,370,000.00
45			M4-Marmer	Meja	Rp 2,750,000.00	Natural	2	Rp 5,500,000.00	
46			A3-Onyx	Asbak	Rp 410,000.00	Natural	2	Rp 820,000.00	
47			G3-Marmer	Guci	Rp 1,200,000.00	Black	2	Rp 2,400,000.00	
48			W47-Marmer	Wastafel	Rp 600,000.00	Beige	1	Rp 600,000.00	
49			W55-Andesit	Wastafel	Rp 550,000.00	Black	1	Rp 550,000.00	
50	3/26/2018	BMPIII2018010	W1-Marmer	Wastafel	Rp 650,000.00	Beige	1	Rp 650,000.00	Rp 7,260,000.00
51			G1-Marmer	Guci	Rp 1,800,000.00	Black	1	Rp 1,800,000.00	
52			G1-Marmer	Guci	Rp 1,800,000.00	White	1	Rp 1,800,000.00	
53			G3-Marmer	Guci	Rp 1,200,000.00	Black	1	Rp 1,200,000.00	
54			W8-Marmer	Wastafel	Rp 700,000.00	Beige	2	Rp 1,400,000.00	
55			A3-Onyx	Asbak	Rp 410,000.00	Natural	1	Rp 410,000.00	
56	4/10/2018	BMPIIV2018011	K1-Onyx	Kursi	Rp 800,000.00	Natural	4	Rp 3,200,000.00	Rp 3,200,000.00
57	5/1/2018	BMPIV2018012	W5-Marmer	Wastafel	Rp 350,000.00	Beige	2	Rp 700,000.00	Rp 12,640,000.00
58			W1-Marmer	Wastafel	Rp 650,000.00	Black	1	Rp 650,000.00	
59			W1-Marmer	Wastafel	Rp 650,000.00	Beige	3	Rp 1,950,000.00	
60			W47-Marmer	Wastafel	Rp 600,000.00	Black	1	Rp 600,000.00	
61			W24-Zeolite	Wastafel	Rp 1,050,000.00	Beige	1	Rp 1,050,000.00	
62			A1-Marmer	Asbak	Rp 450,000.00	Natural	5	Rp 2,250,000.00	
63			W9-Marmer	Wastafel	Rp 890,000.00	Black	2	Rp 1,780,000.00	
64			W3-Marmer	Wastafel	Rp 650,000.00	Beige	5	Rp 3,250,000.00	
65			A3-Onyx	Asbak	Rp 410,000.00	Natural	1	Rp 410,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
66	5/5/2018	BMPIV2018013	G2-Marmer	Guci	Rp 2,000,000.00	White	3	Rp 6,000,000.00	Rp 9,050,000.00
67			G4-Marmer	Guci	Rp 1,250,000.00	Black	2	Rp 2,500,000.00	
68			W55-Andesit	Wastafel	Rp 550,000.00	Black	1	Rp 550,000.00	
69	5/19/2018	BMPIV2018014	M4-Marmer	Meja	Rp 2,750,000.00	Natural	1	Rp 2,750,000.00	Rp 9,900,000.00
70			M1-Onyx	Meja	Rp 2,000,000.00	Natural	1	Rp 2,000,000.00	
71			K1-Onyx	Kursi	Rp 800,000.00	Natural	1	Rp 800,000.00	
72			K2-Marmer	Kursi	Rp 250,000.00	White	3	Rp 750,000.00	
73			G1-Marmer	Guci	Rp 1,800,000.00	Black	2	Rp 3,600,000.00	
74	6/8/2018	BMPIVI2018015	W1-Marmer	Wastafel	Rp 650,000.00	Beige	5	Rp 3,250,000.00	Rp 33,800,000.00
75			W7-Marmer	Wastafel	Rp 400,000.00	Beige	10	Rp 4,000,000.00	
76			W37-Marmer	Wastafel	Rp 450,000.00	Black	6	Rp 2,700,000.00	
77			W47-Marmer	Wastafel	Rp 600,000.00	Beige	5	Rp 3,000,000.00	
78			W1-Marmer	Wastafel	Rp 650,000.00	Black	5	Rp 3,250,000.00	
79			W42-Marmer	Wastafel	Rp 410,000.00	Black	5	Rp 2,050,000.00	
80			W5-Marmer	Wastafel	Rp 350,000.00	Black	5	Rp 1,750,000.00	
81			W5-Marmer	Wastafel	Rp 350,000.00	Beige	3	Rp 1,050,000.00	
82			W26-Onyx	Wastafel	Rp 850,000.00	Natural Onyx	2	Rp 1,700,000.00	
83			W9-Marmer	Wastafel	Rp 890,000.00	Black	5	Rp 4,450,000.00	
84			W37-Marmer	Wastafel	Rp 450,000.00	Beige	2	Rp 900,000.00	
85			W24-Zeolite	Wastafel	Rp 1,050,000.00	Beige	1	Rp 1,050,000.00	
86			W32-Marmer	Wastafel	Rp 550,000.00	Black	2	Rp 1,100,000.00	
87			W30-Marmer	Wastafel	Rp 500,000.00	Beige	5	Rp 2,500,000.00	
88			W24-Zeolite	Wastafel	Rp 1,050,000.00	Beige	1	Rp 1,050,000.00	
89	7/15/2018	BMPIVII2018016	G3-Marmer	Guci	Rp 1,200,000.00	White	2	Rp 2,400,000.00	Rp 7,800,000.00
90			G1-Marmer	Guci	Rp 1,800,000.00	White	3	Rp 5,400,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
91	7/21/2018	BMPIVII2018017	A2-Marmer	Asbak	Rp 475,000.00	Natural	5	Rp 2,375,000.00	Rp 6,015,000.00
92			W5-Marmer	Wastafel	Rp 350,000.00	Beige	1	Rp 350,000.00	
93			G9-Marmer	Guci	Rp 1,200,000.00	White	2	Rp 2,400,000.00	
94			W9-Marmer	Wastafel	Rp 890,000.00	Black	1	Rp 890,000.00	
95	8/10/2018	BMPIVIII2018018	W1-Marmer	Wastafel	Rp 650,000.00	Black	2	Rp 1,300,000.00	Rp 14,650,000.00
96			G2-Marmer	Guci	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
97			G1-Marmer	Guci	Rp 1,800,000.00	White	1	Rp 1,800,000.00	
98			G3-Marmer	Guci	Rp 1,200,000.00	Black	1	Rp 1,200,000.00	
99			G3-Marmer	Guci	Rp 1,200,000.00	White	1	Rp 1,200,000.00	
100			W49-Marmer	Wastafel	Rp 800,000.00	Beige	1	Rp 800,000.00	
101			G1-Marmer	Guci	Rp 1,800,000.00	Black	1	Rp 1,800,000.00	
102			M4-Marmer	Meja	Rp 2,750,000.00	Natural	1	Rp 2,750,000.00	
103	8/31/2018	BMPIVIII2018019	K1-Onyx	Kursi	Rp 800,000.00	Natural	1	Rp 800,000.00	Rp 410,000.00
104			G24-Marmer	Guci	Rp 1,000,000.00	White	1	Rp 1,000,000.00	
105	8/31/2018	BMPIVIII2018019	A3-Onyx	Asbak	Rp 410,000.00	Natural	1	Rp 410,000.00	Rp 410,000.00
106	9/13/2018	BMPIIX2018020	G3-Marmer	Guci	Rp 120,000.00	Black	1	Rp 1,200,000.00	Rp 8,050,000.00
107			G4-Marmer	Guci	Rp 1,250,000.00	White	1	Rp 1,250,000.00	
108			G6-Marmer	Guci	Rp 1,500,000.00	Black	1	Rp 1,500,000.00	
109			G9-Marmer	Guci	Rp 1,200,000.00	White	1	Rp 1,200,000.00	
110			G2-Marmer	Guci	Rp 1,300,000.00	White	1	Rp 1,300,000.00	
111			G3-Marmer	Guci	Rp 1,200,000.00	White	1	Rp 1,200,000.00	
112	10/1/2018	BMPIX2018021	K4-Andesit	Kursi	Rp 400,000.00	Black	1	Rp 400,000.00	Rp 56,920,000.00
113			W6-Marmer	Wastafel	Rp 450,000.00	Beige	3	Rp 1,350,000.00	
114			W7-Marmer	Wastafel	Rp 400,000.00	Beige	1	Rp 400,000.00	
115			W5-Marmer	Wastafel	Rp 350,000.00	Beige	1	Rp 350,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total			
116			W21-Zeolite	Wastafel	Rp 780,000.00	Green Zeolite	4	Rp 3,120,000.00				
117			W9-Marmer	Wastafel	Rp 890,000.00	Black	6	Rp 5,340,000.00				
118			W5-Marmer	Wastafel	Rp 350,000.00	Beige	5	Rp 1,750,000.00				
119			W33-Marmer	Wastafel	Rp 1,150,000.00	Beige	1	Rp 1,150,000.00				
120			A3-Onyx	Asbak	Rp 410,000.00	Natural	1	Rp 410,000.00				
121			W1-Marmer	Wastafel	Rp 650,000.00	Black	3	Rp 1,950,000.00				
122			W9-Marmer	Wastafel	Rp 890,000.00	Black	5	Rp 4,450,000.00				
123			W1-Marmer	Wastafel	Rp 650,000.00	White	5	Rp 3,250,000.00				
124			W14-Marmer	Wastafel	Rp 400,000.00	Beige	5	Rp 2,000,000.00				
125			W27-Marmer	Wastafel	Rp 500,000.00	Black	10	Rp 5,000,000.00				
126			W30-Marmer	Wastafel	Rp 500,000.00	Beige	5	Rp 2,500,000.00				
127			W49-Marmer	Wastafel	Rp 800,000.00	Beige	5	Rp 4,000,000.00				
128			A1-Marmer	Asbak	Rp 450,000.00	Natural	12	Rp 5,400,000.00				
129			W34-Marmer	Wastafel	Rp 550,000.00	Beige	10	Rp 5,500,000.00				
130			G1-Marmer	Guci	Rp 1,800,000.00	White	5	Rp 9,000,000.00				
131			10/18/2018	BMPIX2018022	K4-Andesit	Kursi	Rp 400,000.00	Black		3	Rp 1,200,000.00	Rp 4,360,000.00
132					G3-Marmer	Guci	Rp 1,200,000.00	White		1	Rp 1,200,000.00	
133	G9-Marmer	Guci			Rp 1,200,000.00	White	1	Rp 1,200,000.00				
134	A3-Onyx	Asbak			Rp 410,000.00	Natural	1	Rp 410,000.00				
135	W5-Marmer	Wastafel			Rp 350,000.00	Beige	1	Rp 350,000.00				
136	11/14/2018	BMPIXI2018023	G2-Marmer	Guci	Rp 2,000,000.00	White	1	Rp 2,000,000.00	Rp 5,000,000.00			
137			G3-Marmer	Guci	Rp 1,200,000.00	Black	1	Rp 1,200,000.00				
138			G1-Marmer	Guci	Rp 1,800,000.00	White	1	Rp 1,800,000.00				
139	11/15/2018	BMPIXI2018024	W34-Marmer	Wastafel	Rp 550,000.00	Beige	5	Rp 2,750,000.00	Rp 10,300,000.00			
140			W22-Zeolite	Wastafel	Rp 700,000.00	Green Zeolite	2	Rp 1,400,000.00				

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
141			G2-Marmer	Guci	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
142			G1-Marmer	Guci	Rp 1,800,000.00	White	1	Rp 1,800,000.00	
143			G3-Marmer	Guci	Rp 1,200,000.00	Black	1	Rp 1,200,000.00	
144			W33-Marmer	Wastafel	Rp 1,150,000.00	Beige	1	Rp 1,150,000.00	
145			W22-Zeolite	Wastafel	Rp 750,000.00	Green Zeolite	1	Rp 750,000.00	
146			W41-Marmer	Wastafel	Rp 480,000.00	Black	10	Rp 4,800,000.00	
147			W3-Marmer	Wastafel	Rp 650,000.00	Beige	10	Rp 6,500,000.00	
148			W1-Marmer	Wastafel	Rp 650,000.00	Black	5	Rp 3,250,000.00	
149			W4-Marmer	Wastafel	Rp 380,000.00	Beige	16	Rp 6,080,000.00	
150			W1-Marmer	Wastafel	Rp 650,000.00	Beige	1	Rp 650,000.00	
151			W1-Marmer	Wastafel	Rp 650,000.00	Black	1	Rp 650,000.00	
152			W42-Marmer	Wastafel	Rp 410,000.00	Black	1	Rp 410,000.00	
153			W23-Onyx	Wastafel	Rp 900,000.00	Natural Onyx	5	Rp 4,500,000.00	
154	12/8/2018	BMPIXII2018025	W32-Marmer	Wastafel	Rp 550,000.00	Beige	12	Rp 6,600,000.00	Rp 64,280,000.00
155			W43-Marmer	Wastafel	Rp 480,000.00	Black	8	Rp 3,840,000.00	
156			W37-Marmer	Wastafel	Rp 450,000.00	Beige	10	Rp 4,500,000.00	
157			W39-Marmer	Wastafel	Rp 750,000.00	Beige	4	Rp 3,000,000.00	
158			W5-Marmer	Wastafel	Rp 350,000.00	Beige	5	Rp 1,750,000.00	
159			W5-Marmer	Wastafel	Rp 350,000.00	Black	10	Rp 3,500,000.00	
160			W44-Marmer	Wastafel	Rp 500,000.00	Black	3	Rp 1,500,000.00	
161			W3-Marmer	Wastafel	Rp 650,000.00	Black	10	Rp 6,500,000.00	
162			W37-Marmer	Wastafel	Rp 450,000.00	Black	4	Rp 1,800,000.00	
163			W25-Zeolite	Wastafel	Rp 600,000.00	Green Zeolite	2	Rp 1,200,000.00	
164			W30-Marmer	Wastafel	Rp 500,000.00	Black	5	Rp 2,500,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
165	12/10/2018	BMPIXII2018026	K4-Andesit	Kursi	Rp 400,000.00	Black	4	Rp 1,600,000.00	Rp 1,600,000.00
166	12/23/2018	BMPIXII2018027	A2-Marmer	Asbak	Rp 475,000.00	Natural	5	Rp 2,375,000.00	Rp 8,075,000.00
167			K2-Marmer	Kursi	Rp 250,000.00	White	4	Rp 1,000,000.00	
168			G6-Marmer	Guci	Rp 1,500,000.00	Black	1	Rp 1,500,000.00	
169			G3-Marmer	Guci	Rp 1,200,000.00	White	1	Rp 1,200,000.00	
170			G2-Marmer	Guci	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
171			1/5/2019	BMPII2019028	W32-Marmer	Wastafel	Rp 550,000.00	Beige	
172	W8-Marmer	Wastafel			Rp 700,000.00	Black	1	Rp 700,000.00	
173	W25-Zeolite	Wastafel			Rp 600,000.00	Green Zeolite	1	Rp 600,000.00	
174	W26-Onyx	Wastafel			Rp 850,000.00	Natural Onyx	1	Rp 850,000.00	
175	1/19/2019	BMPII2019029	G3-Marmer	Guci	Rp 1,200,000.00	White	1	Rp 1,200,000.00	Rp 21,200,000.00
176			G1-Marmer	Guci	Rp 1,800,000.00	White	2	Rp 3,600,000.00	
177			G3-Marmer	Guci	Rp 1,200,000.00	Black	1	Rp 1,200,000.00	
178			G6-Marmer	Guci	Rp 1,500,000.00	Black	3	Rp 4,500,000.00	
179			G2-Marmer	Guci	Rp 2,000,000.00	Natural	2	Rp 4,000,000.00	
180			G12-Marmer	Guci	Rp 1,150,000.00	White	1	Rp 1,150,000.00	
181			G31-Marmer	Guci	Rp 1,250,000.00	Black	1	Rp 1,250,000.00	
182			G13-Marmer	Guci	Rp 1,800,000.00	White	1	Rp 1,800,000.00	
183			G1-Marmer	Guci	Rp 1,000,000.00	White	1	Rp 1,000,000.00	
184			G6-Marmer	Guci	Rp 1,500,000.00	White	1	Rp 1,500,000.00	
185	1/23/2019	BMPII2019030	W22-Zeolite	Wastafel	Rp 750,000.00	Green Zeolite	1	Rp 750,000.00	Rp 750,000.00
186	2/2/2019	BMPIII2019031	M3-Onyx	Meja	Rp 1,500,000.00	Natural	1	Rp 1,500,000.00	Rp 7,680,000.00
187			W9-Marmer	Wastafel	Rp 890,000.00	Black	2	Rp 1,780,000.00	
188			K3-Marmer	Kursi	Rp 350,000.00	White	4	Rp 1,400,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
189			G1-Marmer	Guci	Rp 1,800,000.00	Black	1	Rp 1,800,000.00	
190			G3-Marmer	Guci	Rp 1,200,000.00	White	1	Rp 1,200,000.00	
191	2/25/2019	BMPIII2019032	G1-Marmer	Guci	Rp 1,800,000.00	White	1	Rp 1,800,000.00	Rp 2,210,000.00
192			A3-Onyx	Asbak	Rp 410,000.00	Natural	1	Rp 410,000.00	
193	3/11/2019	BMPIII2019033	W55-Andesit	Wastafel	Rp 550,000.00	Black	1	Rp 550,000.00	Rp 1,750,000.00
194			W19-Zeolite	Wastafel	Rp 1,200,000.00	Green Zeolite	1	Rp 1,200,000.00	
195	4/28/2019	BMPIIV2019034	M6-Marmer	Meja	Rp 3,700,000.00	Natura	1	Rp 3,700,000.00	Rp 10,400,000.00
196			M1-Onyx	Meja	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
197			K2-Marmer	Kursi	Rp 250,000.00	White	6	Rp 1,500,000.00	
198			G2-Marmer	Guci	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
199			G3-Marmer	Guci	Rp 1,200,000.00	White	1	Rp 1,200,000.00	
200	4/29/2019	BMPIIV2019035	G20-Marmer	Guci	Rp 1,250,000.00	Black	3	Rp 3,750,000.00	Rp 57,250,000.00
201			G1-Marmer	Guci	Rp 1,800,000.00	White	10	Rp 18,000,000.00	
202			G24-Marmer	Guci	Rp 1,000,000.00	Black	5	Rp 5,000,000.00	
203			G9-Marmer	Guci	Rp 1,200,000.00	White	8	Rp 9,600,000.00	
204			G13-Marmer	Guci	Rp 1,000,000.00	White	5	Rp 5,000,000.00	
205			G34-Marmer	Guci	Rp 1,150,000.00	Natural	1	Rp 1,150,000.00	
206			G31-Marmer	Guci	Rp 1,250,000.00	Black	5	Rp 6,250,000.00	
207			G18-Marmer	Guci	Rp 1,300,000.00	White	5	Rp 6,500,000.00	
208			G8-Marmer	Guci	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
209	5/4/2019	BMPIV2019036	K4-Andesit	Kursi	Rp 400,000.00	Black	4	Rp 1,600,000.00	Rp 6,350,000.00
210			M1-Onyx	Meja	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
211			M4-Marmer	Meja	Rp 2,750,000.00	Natural	1	Rp 2,750,000.00	
212	6/11/2019	BMPIVI2019037	W30-Marmer	Wastafel	Rp 500,000.00	Beige	10	Rp 5,000,000.00	Rp 5,000,000.00
213	6/17/2019	BMPIVI2019038	G1-Marmer	Guci	Rp 1,800,000.00	White	1	Rp 1,800,000.00	Rp 9,570,000.00

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
214			G1-Marmer	Guci	Rp 1,800,000.00	Black	1	Rp 1,800,000.00	
215			G2-Marmer	Guci	Rp 2,000,000.00	Black	1	Rp 2,000,000.00	
216			K1-Onyx	Kursi	Rp 800,000.00	Natural	1	Rp 800,000.00	
217			A3-Onyx	Asbak	Rp 410,000.00	Natural	2	Rp 820,000.00	
218			G2-Marmer	Guci	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
219			W5-Marmer	Wastafel	Rp 350,000.00	Beige	1	Rp 350,000.00	
220			G3-Marmer	Guci	Rp 1,200,000.00	Black	5	Rp 6,000,000.00	
221			G6-Marmer	Guci	Rp 1,500,000.00	Black	1	Rp 1,500,000.00	
222			G27-Marmer	Guci	Rp 2,500,000.00	White	1	Rp 2,500,000.00	
223			G34-Marmer	Guci	Rp 1,150,000.00	White	3	Rp 3,450,000.00	
224			G3-Marmer	Guci	Rp 1,200,000.00	Black	2	Rp 2,400,000.00	
225			G20-Marmer	Guci	Rp 1,250,000.00	Black	2	Rp 2,500,000.00	
226			G5-Marmer	Guci	Rp 1,500,000.00	Black	1	Rp 1,500,000.00	
227			G9-Marmer	Guci	Rp 1,200,000.00	White	5	Rp 6,000,000.00	
228			G5-Marmer	Guci	Rp 1,500,000.00	White	5	Rp 7,500,000.00	
229	7/1/2019	BMPIVII2019039	G8-Marmer	Guci	Rp 2,000,000.00	Black	1	Rp 2,000,000.00	
230			G8-Marmer	Guci	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
231			G1-Marmer	Guci	Rp 1,300,000.00	White	2	Rp 2,600,000.00	
232			G22-Marmer	Guci	Rp 2,150,000.00	Black	1	Rp 2,150,000.00	
233			G31-Marmer	Guci	Rp 1,250,000.00	White	5	Rp 6,250,000.00	
234			G19-Marmer	Guci	Rp 1,500,000.00	White	5	Rp 7,500,000.00	
235			G2-Marmer	Guci	Rp 2,000,000.00	Black	3	Rp 6,000,000.00	
236			G4-Marmer	Guci	Rp 1,250,000.00	Black	6	Rp 7,500,000.00	
237			G24-Marmer	Guci	Rp 1,000,000.00	White	2	Rp 2,000,000.00	
238			G24-Marmer	Guci	Rp 1,000,000.00	White	2	Rp 2,000,000.00	
239	7/10/2019	BMPIVII2019040	W43-Marmer	Wastafel	Rp 500,000.00	Beige	1	Rp 500,000.00	Rp 1,050,000.00

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
240			W32-Marmer	Wastafel	Rp 550,000.00	Beige	1	Rp 550,000.00	
241	7/18/2019	BMPIVII2019041	K4-Andesit	Kursi	Rp 400,000.00	Black	4	Rp 1,600,000.00	Rp 1,600,000.00
242	7/21/2019	BMPIVII2019042	A3-Onyx	Asbak	Rp 410,000.00	Natural	2	Rp 820,000.00	Rp 9,020,000.00
243			M5-Marmer	Meja	Rp 3,000,000.00	Natural	1	Rp 3,000,000.00	
244			M2-Marmer	Meja	Rp 3,500,000.00	White	1	Rp 3,500,000.00	
245			W22-Zeolite	Meja	Rp 750,000.00	Green Zeolite	1	Rp 750,000.00	
246			A2-Marmer	Asbak	Rp 475,000.00	Black	2	Rp 950,000.00	
247	8/5/2019	BMPIVIII2019043	K3-Marmer	Kursi	Rp 350,000.00	Natural	6	Rp 2,100,000.00	Rp 2,100,000.00
248	8/13/2019	BMPIVIII2019044	M2-Marmer	Meja	Rp 3,500,000.00	White	5	Rp 17,500,000.00	Rp 44,600,000.00
249			M6-Marmer	Meja	Rp 3,700,000.00	Natural	2	Rp 7,400,000.00	
250			K4-Andesit	Kursi	Rp 400,000.00	Natural	5	Rp 2,000,000.00	
251			K2-Marmer	Kursi	Rp 250,000.00	White	10	Rp 2,500,000.00	
252			W26-Onyx	Meja	Rp 850,000.00	White	2	Rp 1,700,000.00	
253			W1-Marmer	Wastafel	Rp 650,000.00	Beige	5	Rp 3,250,000.00	
254			W14-Marmer	Wastafel	Rp 400,000.00	Beige	5	Rp 2,000,000.00	
255			W14-Marmer	Wastafel	Rp 400,000.00	Black	5	Rp 2,000,000.00	
256			W7-Marmer	Wastafel	Rp 400,000.00	Beige	10	Rp 4,000,000.00	
257			W37-Marmer	Wastafel	Rp 450,000.00	Black	5	Rp 2,250,000.00	
258	9/21/2019	BMPIIX2019045	W19-Zeolite	Wastafel	Rp 1,200,000.00	Green Zeolite	1	Rp 1,200,000.00	Rp 2,250,000.00
259			W24-Zeolite	Wastafel	Rp 1,050,000.00	Green Zeolite	1	Rp 1,050,000.00	
260	10/7/2019	BMPIX2019046	W47-Marmer	Wastafel	Rp 600,000.00	Black	5	Rp 3,000,000.00	Rp 70,740,000.00
261			W49-Marmer	Wastafel	Rp 800,000.00	Black	10	Rp 8,000,000.00	
262			W3-Marmer	Wastafel	Rp 650,000.00	White	6	Rp 3,900,000.00	
263			W1-Marmer	Wastafel	Rp 650,000.00	White	10	Rp 6,500,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
264			W4-Marmer	Wastafel	Rp 380,000.00	Black	16	Rp 6,080,000.00	
265			W1-Marmer	Wastafel	Rp 650,000.00	Black	10	Rp 6,500,000.00	
266			W7-Marmer	Wastafel	Rp 400,000.00	Black	3	Rp 1,200,000.00	
267			W32-Marmer	Wastafel	Rp 550,000.00	White	10	Rp 5,500,000.00	
268			W42-Marmer	Wastafel	Rp 410,000.00	White	5	Rp 2,050,000.00	
269			W37-Marmer	Wastafel	Rp 450,000.00	Black	12	Rp 5,400,000.00	
270			W39-Marmer	Wastafel	Rp 750,000.00	White	3	Rp 2,250,000.00	
271			W5-Marmer	Wastafel	Rp 350,000.00	White	10	Rp 3,500,000.00	
272			W5-Marmer	Wastafel	Rp 350,000.00	Black	7	Rp 2,450,000.00	
273			W3-Marmer	Wastafel	Rp 650,000.00	White	10	Rp 6,500,000.00	
274			W37-Marmer	Wastafel	Rp 500,000.00	White	5	Rp 2,500,000.00	
275			W41-Marmer	Wastafel	Rp 480,000.00	Black	2	Rp 960,000.00	
276			W57-Marmer	Wastafel	Rp 350,000.00	Black	5	Rp 1,750,000.00	
277			W58-Marmer	Wastafel	Rp 450,000.00	White	1	Rp 450,000.00	
278			W6-Marmer	Wastafel	Rp 450,000.00	Black	5	Rp 2,250,000.00	
279			10/24/2019	BMPIX2019047	A1-Marmer	Asbak	Rp 450,000.00	Natural	
280	A3-Onyx	Asbak			Rp 410,000.00	Natural	1	Rp 410,000.00	
281	10/29/2019	BMPIX2019048	G3-Marmer	Guci	Rp 1,200,000.00	Black	1	Rp 1,200,000.00	Rp 1,200,000.00
282	11/15/2019	BMPIXI2019049	G11-Marmer	Guci	Rp 1,500,000.00	White	3	Rp 4,500,000.00	Rp 87,150,000.00
283			G5-Marmer	Guci	Rp 1,500,000.00	Black	5	Rp 7,500,000.00	
284			G25-Marmer	Guci	Rp 2,220,000.00	Black	5	Rp 11,100,000.00	
285			G8-Marmer	Guci	Rp 2,000,000.00	White	2	Rp 4,000,000.00	
286			G3-Marmer	Guci	Rp 1,200,000.00	Black	2	Rp 2,400,000.00	
287			G3-Marmer	Guci	Rp 1,200,000.00	White	2	Rp 2,400,000.00	
288			G1-Marmer	Guci	Rp 1,800,000.00	White	5	Rp 9,000,000.00	
289			G27-Marmer	Guci	Rp 2,500,000.00	White	2	Rp 5,000,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
290			G20-Marmer	Guci	Rp 1,250,000.00	Black	3	Rp 3,750,000.00	
291			G12-Marmer	Guci	Rp 1,400,000.00	White	6	Rp 8,400,000.00	
292			G28-Marmer	Guci	Rp 2,300,000.00	White	3	Rp 6,900,000.00	
293			G28-Marmer	Guci	Rp 2,300,000.00	Black	3	Rp 6,900,000.00	
294			G14-Marmer	Guci	Rp 1,000,000.00	White	10	Rp 10,000,000.00	
295			G33-Marmer	Guci	Rp 1,300,000.00	Black	1	Rp 1,300,000.00	
296			G24-Marmer	Guci	Rp 1,000,000.00	White	4	Rp 4,000,000.00	
297			11/20/2019	BMPIXI2019050	K4-Andesit	Kursi	Rp 400,000.00	Black	
298	W20-Zeolite	Wastafel			Rp 750,000.00	Green Zeolite	1	Rp 750,000.00	
299	12/3/2019	BMPIXII2019051	W14-Marmer	Wastafel	Rp 400,000.00	Beige	10	Rp 4,000,000.00	Rp 48,840,000.00
300			W14-Marmer	Wastafel	Rp 400,000.00	Black	3	Rp 1,200,000.00	
301			W32-Marmer	Wastafel	Rp 1,150,000.00	Beige	10	Rp 11,500,000.00	
302			W42-Marmer	Wastafel	Rp 410,000.00	Black	5	Rp 2,050,000.00	
303			W5-Marmer	Wastafel	Rp 350,000.00	Beige	5	Rp 1,750,000.00	
304			W4-Marmer	Wastafel	Rp 380,000.00	Black	3	Rp 1,140,000.00	
305			W4-Marmer	Wastafel	Rp 380,000.00	Beige	3	Rp 1,140,000.00	
306			G4-Marmer	Guci	Rp 1,250,000.00	Black	5	Rp 6,250,000.00	
307			G34-Marmer	Guci	Rp 1,150,000.00	White	6	Rp 6,900,000.00	
308			W55-Andesit	Wastafel	Rp 550,000.00	Black	3	Rp 1,650,000.00	
309			G3-Marmer	Guci	Rp 1,200,000.00	White	2	Rp 2,400,000.00	
310			G2-Marmer	Guci	Rp 2,000,000.00	Black	1	Rp 2,000,000.00	
311			W37-Marmer	Wastafel	Rp 450,000.00	Beige	2	Rp 900,000.00	
312			W21-Zeolite	Wastafel	Rp 780,000.00	Green Zeolite	2	Rp 1,560,000.00	
313			W7-Marmer	Wastafel	Rp 400,000.00	Black	2	Rp 800,000.00	

No	Tanggal	No Transaksi	Item Deskripsi	Produk Kerajinan	Harga	Warna	Banyak	Sub_Total	Total
314			W25-Zeolite	Wastafel	Rp 600,000.00	Green Zeolite	1	Rp 600,000.00	
315			W28-Marmer	Guci	Rp 500,000.00	Black	1	Rp 500,000.00	
316			G2-Marmer	Guci	Rp 2,000,000.00	White	1	Rp 2,000,000.00	
317			W27-Marmer	Wastafel	Rp 500,000.00	Beige	1	Rp 500,000.00	
318	12/20/2019	BMPIXII2019052	K1-Onyx	Kursi	Rp 800,000.00	Natural	2	Rp 1,600,000.00	Rp 10,150,000.00
319			M4-Marmer	Meja	Rp 2,750,000.00	Natural	1	Rp 2,750,000.00	
320			M2-Marmer	Meja	Rp 3,500,000.00	Natural	1	Rp 3,500,000.00	
321			G1-Marmer	Guci	Rp 1,800,000.00	Black	1	Rp 1,800,000.00	
322			W27-Marmer	Wastafel	Rp 500,000.00	Beige	1	Rp 500,000.00	

KUISIONER ONLINE

APLIKASI *FORECASTING* PENJUALAN KERAJINAN BATU

MENGGUNAKAN METODE *LINEAR REGRESSTION*

(STUDI KASUS : CV. BUKIT MULIA)

Nama : Janjang Kurniawan

Jenis Kelamin : Laki – Laki / ~~Perempuan~~ (*Coret Salah Satu)

Email : janjangkurniawan90@gmail.com

Berikan tanda centang (✓) pada kolom pertanyaan di bawah ini :

No	Pertanyaan	Penilaian		
		Sangat Setuju	Setuju	Tidak Setuju
1	Apakah user <i>interface</i> dari aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> terlihat menarik ?		✓	
2	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah digunakan ?	✓		
3	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> dapat membantu Pimpinan CV. Bukit Mulia dalam memprediksi penjualan ?		✓	
4	Apakah informasi yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah di mengerti ?		✓	
5	Apakah Fitur yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> berfungsi dengan baik ?	✓		

Respondensi



Janjang

KUISIONER ONLINE

APLIKASI *FORECASTING* PENJUALAN KERAJINAN BATU

MENGGUNAKAN METODE *LINEAR REGRESSTION*

(STUDI KASUS : CV. BUKIT MULIA)

Nama : Desvianty Ayu Wahyudi

Jenis Kelamin : ~~Laki~~ ~~Laki~~ / Perempuan (*Coret Salah Satu)

Email : desviantyayu11@gmail.com

Berikan tanda centang (✓) pada kolom pertanyaan di bawah ini :

No	Pertanyaan	Penilaian		
		Sangat Setuju	Setuju	Tidak Setuju
1	Apakah user <i>interface</i> dari aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> terlihat menarik ?	✓		
2	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah digunakan ?		✓	
3	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> dapat membantu Pimpinan CV. Bukit Mulia dalam memprediksi penjualan ?	✓		
4	Apakah informasi yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah di mengerti ?		✓	
5	Apakah Fitur yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> berfungsi dengan baik ?	✓		

Respondensi



Desvianty

KUISIONER ONLINE

APLIKASI *FORECASTING* PENJUALAN KERAJINAN BATU

MENGGUNAKAN METODE *LINEAR REGRESSTION*

(STUDI KASUS : CV. BUKIT MULIA)

Nama : M. Khusnul Amin

Jenis Kelamin : Laki – Laki / ~~Perempuan~~ (*Coret Salah Satu)

Email : aminmuh924@gmail.com

Berikan tanda centang (✓) pada kolom pertanyaan di bawah ini :

No	Pertanyaan	Penilaian		
		Sangat Setuju	Setuju	Tidak Setuju
1	Apakah user <i>interface</i> dari aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> terlihat menarik ?		✓	
2	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah digunakan ?		✓	
3	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> dapat membantu Pimpinan CV. Bukit Mulia dalam memprediksi penjualan ?	✓		
4	Apakah informasi yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah di mengerti ?		✓	
5	Apakah Fitur yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> berfungsi dengan baik ?		✓	

Respondensi



Muhammad Khusnul Amin

KUISIONER ONLINE

APLIKASI *FORECASTING* PENJUALAN KERAJINAN BATU

MENGGUNAKAN METODE *LINEAR REGRESSTION*

(STUDI KASUS : CV. BUKIT MULIA)

Nama : Mayang Anindya Putri

Jenis Kelamin : ~~Laki~~—~~Laki~~/ Perempuan (*Coret Salah Satu)

Email : mayangputri969@gmail.com

Berikan tanda centang (✓) pada kolom pertanyaan di bawah ini :

No	Pertanyaan	Penilaian		
		Sangat Setuju	Setuju	Tidak Setuju
1	Apakah user <i>interface</i> dari aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> terlihat menarik ?		✓	
2	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah digunakan ?		✓	
3	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> dapat membantu Pimpinan CV. Bukit Mulia dalam memprediksi penjualan ?		✓	
4	Apakah informasi yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah di mengerti ?	✓		
5	Apakah Fitur yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> berfungsi dengan baik ?		✓	

Respondensi


Mayang Anindya Putri

KUISIONER ONLINE

APLIKASI *FORECASTING* PENJUALAN KERAJINAN BATU MENGUNAKAN METODE *LINEAR REGRESSTION* (STUDI KASUS : CV. BUKIT MULIA)

Nama : Iwan Nur Anafi

Jenis Kelamin : Laki – Laki/~~Perempuan~~(*Coret Salah Satu)

Email : anafiiwan81@gmail.com

Berikan tanda centang (✓) pada kolom pertanyaan di bawah ini :

No	Pertanyaan	Penilaian		
		Sangat Setuju	Setuju	Tidak Setuju
1	Apakah user <i>interface</i> dari aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> terlihat menarik ?		✓	
2	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah digunakan ?		✓	
3	Apakah aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> dapat membantu Pimpinan CV. Bukit Mulia dalam memprediksi penjualan ?		✓	
4	Apakah informasi yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> mudah di mengerti ?		✓	
5	Apakah Fitur yang ada pada aplikasi <i>forecasting</i> penjualan kerajinan batu menggunakan metode <i>linear regression</i> berfungsi dengan baik ?		✓	

Respondensi


(IWAN Nur Anafi)

Admin_model.php

```
class Admin_model extends CI_Model
{
    function login($username, $password){
        $this->db->where('username', $username);
        $this->db->where('password', $password);
        $query = $this->db->get('tb_admin');

        if ($query->row_array() > 0) {
            return true;
        } else {
            return false;
        }
    }
}
```

Batu_model.php

```
class Batu_model extends CI_Model
{

    public function tampil_batu_ById($id){
        return $hsl = $this->db->get_where('tb_batu', ['ID_batu' => $id])->row_array();
    }

    public function tampil_batu(){
        return $hsl = $this->db->get('tb_batu')->result_array();
    }

    public function tampil_Alljoin(){
        $this->db->select('*');
        $this->db->from('tb_kerajinan');
        $this->db->join('tb_batu', 'tb_kerajinan.ID_batu =tb_batu.ID_batu');
        $this->db->join('tb_penjualan', 'tb_kerajinan.ID_kerajinan =tb_penjualan.ID_kerajinan');
        $query = $this->db->get();
        return $query->result_array();
    }

    public function simpan_data(){
        $data = [
            "jenis_batu" => $this->input->post('jenis_batu', true)
        ];
        $this->db->insert('tb_batu', $data);
    }

    public function edit_data(){
        $data = [
            "jenis_batu" => $this->input->post('jenis_batu', true)
        ];
        $this->db->where('ID_batu', $this->input->post('id'));
        $this->db->update('tb_batu', $data);
        $this->session->set_flashdata('message', '<div class="alert alert-success" role="alert">
            data berhasil diubah
            </div>');
    }
}
```

```

}

public function hapus_data($id){
    $this->db->delete('tb_batu', ['ID_batu' => $id]);
}

public function jumlah(){
    return $hsl = $this->db->get('tb_batu')->num_rows();
}
}

```

Kerajinan_model.php

```

class Kerajinan_model extends CI_Model
{
    function edit_datakerajinan($where, $table){
        return $this->db->get_where($table, $where);
    }

    public function tampil_kerajinan_ById($id){
        return $hsl = $this->db->get_where('tb_kerajinan',
['ID_Kerajinan' => $id])->row_array();
    }

    public function where_batu($where, $table){
        return $this->db->get_where($table, $where);
    }

    public function where_kerajinan($where, $table){
        return $this->db->get_where($table, $where);
    }

    public function tampil_kerajinan(){
        return $hsl = $this->db->get('tb_kerajinan')->result_array();
    }

    public function tampil_Alljoin(){
        $this->db->select('*');
        $this->db->from('tb_kerajinan');
        $this->db->join('tb_batu', 'tb_kerajinan.ID_batu
=tb_batu.ID_batu');
        $this->db->join('tb_produk', 'tb_kerajinan.ID_produk
=
tb_produk.ID_produk');
        $query = $this->db->get();
        return $query->result_array();
    }

    public function simpan_data(){
        $data = [
            // "gambar" => $this->input->post('gambar', true),

            "ID_produk" => $this->input->post('produk_kerajinan',
true),
            "ID_batu" => $this->input->post('jenis_batu', true),
            "ukuran" => $this->input->post('ukuran', true),
            "warna" => $this->input->post('warna', true),
            "harga" => $this->input->post('harga', true)
        ];
    }
}

```

```

        $this->db->insert('tb_kerajinan', $data);
    }

    public function edit_data(){
        $data = [
            // "gambar" => $this->input->post('gambar', true),

            "ID_produk" => $this->input->post('produk_kerajinan',
true),
            "ID_batu" => $this->input->post('jenis_batu', true),
            "ukuran" => $this->input->post('ukuran', true),
            "warna" => $this->input->post('warna', true),
            "harga" => $this->input->post('harga', true)
        ];
        $this->db->where('ID_kerajinan', $this->input->post('id'));
        $this->db->update('tb_kerajinan', $data);
    }

    public function hapus_data($id){
        $this->db->delete('tb_kerajinan', ['ID_kerajinan' => $id]);
    }

    public function jumlah(){
        return $hsl = $this->db->get('tb_kerajinan')->
>num_rows();
    }
}

```

Produk_model.php

```

class Produk_model extends CI_Model
{
    public function tampil_produk(){
        return $hsl = $this->db->get('tb_produk')->result_array();
    }

    public function tampil_Allproduk(){
        $this->db->select('*');
        $this->db->from('tb_kerajinan');
        $this->db->join('tb_produk', 'tb_produk.ID_produk =
tb_kerajinan.ID_produk');
        $query = $this->db->get();
        return $query->result_array();
    }
}

```

Transaksi_model.php

```

class Transaksi_model extends CI_Model
{
    public function tampil_transaksi(){
        return $this->db->get('tb_transaksi')->result_array();
    }

    public function tampil_penjualan(){
        return $this->db->get('tb_penjualan')->result_array();
    }
}

```

```

public function tampil_Alljoin(){
    $this->db->select('*');
    $this->db->from('tb_kerajinan');
    $this->db->join('tb_produk', 'penjualan.ID_produk =
tb_produk.ID_produk');
    $this->db->join('tb_batu', 'penjualan.ID_batu
=tb_batu.ID_batu');
    $query = $this->db->get();
    return $query->result_array();
}

public function tambah($data, $table){
    $this->db->insert($table, $data);
}

public function tampilTransaksiByNo($no_transaksi){
    return $this->db->get_where('tb_transaksi', ['no_transaksi'
=> $no_transaksi])->result_array();
}

public function tampilPenjualanByNo($no_transaksi){
    return $this->db->get_where('tb_penjualan', ['no_transaksi'
=> $no_transaksi])->result_array();
}

public function tampilPenjualanAll($no_transaksi){
    $this->db->select('*');
    $this->db->from('tb_penjualan');
    $this->db->join('tb_transaksi', 'tb_penjualan.no_transaksi =
tb_transaksi.no_transaksi');
    $this->db->where('tb_transaksi.no_transaksi', $no_transaksi);
    $query = $this->db->get();
    return $query->result_array();
}

public function listPenjualan($no_transaksi){
    $this->db->select('*');
    $this->db->from('tb_penjualan');
    $this->db->join('tb_transaksi', 'tb_penjualan.no_transaksi =
tb_transaksi.no_transaksi');
    $this->db->where('tb_transaksi.no_transaksi', $no_transaksi);
    $query = $this->db->get();
    return $query->row();
}

public function hapus_data($no_transaksi){
    $this->db->delete('tb_transaksi', ['no_transaksi' =>
$no_transaksi]);
}

public function hapus_penjualan($no_transaksi){
    $this->db->delete('tb_penjualan', ['no_transaksi' =>
$no_transaksi]);
}

public function jumlahPenjualan(){

```

```

        return $hsl = $this->db->get('tb_penjualan')->
num_rows();
    }

    public function jumlahTransaksi(){
        return $hsl = $this->db->get('tb_transaksi')->
num_rows();
    }
}

```

Admin.php

```

class Admin extends CI_Controller
{

    public function __construct(){
        parent::__construct();
        $this->load->view('template/header');
        // $this->load->view('template/topbar');
        // $this->load->view('template/sidebar');
        $this->load->model('Admin_model');
    }

    public function index(){
        $this->load->view('administrator/admin');
        $this->load->view('template/login');
    }

    public function login(){
        $this->load->view('administrator/admin');
    }

    function login_validation(){
        $this->load->library('form_validation');

        $this->form_validation->set_rules('username', 'Username',
'required');
        $this->form_validation->set_rules('password', 'Password',
'required');
        if($this->form_validation->run()){
            //true
            $username = $this->input->post('username');
            $password = $this->input->post('password');
            //model function
            $this->load->model('Admin_model');
            if($this->Admin_model->login($username, $password)){
                $session_data = array(
                    'username' => $username,
                );
                $this->session->set_userdata($session_data);
                redirect(base_url('Admin/enter'));
            }
            else{
                $this->session->set_flashdata('error', 'Invalid
username and password');
                redirect(base_url('Admin/enter'));
            }
        }
        else{

```

```

        //false
        $this->login();
    }
}

function enter()
{
    if($this->session->userdata('username') != '')
    {
        redirect(base_url('Dashboard'));
    }
    else
    {
        redirect(base_url('Admin/login'));
    }
}

public function logout()
{
    $this->session->unset_userdata('username');
    redirect('Admin');
}
}
}

```

Dashboard.php

```

class Dashboard extends CI_Controller
{
    public function __construct(){
        parent::__construct();
        $this->load->view('template/header');
        $this->load->view('template/topbar');
        $this->load->view('template/sidebar');
        $this->load->model('Batu_model');
        $this->load->model('Kerajinan_model');
        $this->load->model('Transaksi_model');
    }
    public function index(){
        $data['jumlahBatu'] = $this->Batu_model->jumlah();
        $data['jumlahKerajinan'] = $this->Kerajinan_model->jumlah();
        $data['jumlahPenjualan'] = $this->Transaksi_model->jumlahPenjualan();
        $data['jumlahTransaksi'] = $this->Transaksi_model->jumlahTransaksi();

        $this->load->view('administrator/dashboard', $data);
        $this->load->view('template/footer');
    }
}

```

Batu.php

```
use Dompdf\Dompdf;
class Batu extends CI_Controller
{
    public function __construct()
    {
        parent::__construct();
        $this->load->view('template/header');
        $this->load->view('template/topbar');
        $this->load->view('template/sidebar');
        $this->load->model('Batu_model');
    }

    public function index(){
        $data['batu'] = $this->Batu_model->tampil_batu();
        $this->load->view('administrator/data_batu', $data);
        $this->load->view('template/footer');
    }

    public function data_batu(){
        $data['batu'] = $this->Batu_model->tampil_batu();
        $this->load->view('administrator/data_batu', $data);
        $this->load->view('template/footer');
    }

    public function tambah_batu(){
        $this->load->helper('form');
        $this->load->library('form_validation');
        $this->load->library('session');

        $this->form_validation->set_rules('jenis_batu', 'Jenis
Batu', 'required');
        if ($this->form_validation->run() == false){
            $this->load->view('administrator/tambah_batu');
            $this->load->view('template/footer');
        } else {
            $batu = $this->input->post('jenis_batu');
            $this->Batu_model->simpan_data($batu);
            $this->session->set_flashdata('message', '<div
class="alert alert-info" role="alert">
                Data Berhasil Ditambahkan
            </div>');
            redirect('Batu/data_batu');
        }
    }

    public function edit_batu($id){
        $this->load->helper('form');
        $this->load->library('form_validation');
        $this->load->library('session');

        $data['batu'] = $this->Batu_model->tampil_batu_ById($id);

        $this->form_validation->set_rules('jenis_batu', 'Jenis
Batu', 'required');
        if ($this->form_validation->run() == false) {
```

```

        $this->load->view('administrator/edit_batu', $data);
        $this->load->view('template/footer');
    } else {
        $jenis_batu = $this->input->post('jenis_batu');
        $this->Batu_model->edit_data();
        $this->session->set_flashdata('message',          '<div
class="alert alert-info" role="alert">
                Data Berhasil Diubah
                </div>');
        redirect('Batu/data_batu');
    }
}

public function hapus_batu($id){
    $this->load->library('session');
    $this->Batu_model->hapus_data($id);
    $this->session->set_flashdata('message', '<div class="alert
alert-info" role="alert">
        Data Berhasil Dihapus
        </div>');
    redirect('Batu/data_batu');
}

public function pdf(){
    $dompdf = new Dompdf();
    $data['batu'] = $this->Batu_model->tampil_batu();

    $dompdf->setPaper('A4', 'Potrait');
    $dompdf->set_option('isRemoteEnabled', TRUE);

    $html = $this->load->view('administrator/report_batu', $data,
true);

    $dompdf->load_html($html);
    $dompdf->render();
    $dompdf->stream("print.pdf", array('Attachment' => false));
}
}

```

Kerajinan.php

```

use Dompdf\Dompdf;
class Kerajinan extends CI_Controller
{
    public function __construct(){
        parent::__construct();
        $this->load->view('template/header');
        $this->load->view('template/topbar');
        $this->load->view('template/sidebar');
        $this->load->model('Kerajinan_model');
        $this->load->model('Batu_model');
        $this->load->model('Produk_model');
    }
    public function index(){
        $data["kerajinan_join"] = $this->Kerajinan_model-
>tampil Alljoin();
    }
}

```



```

        $data["kerajinan"] = $this->Kerajinan_model-
>tampil_kerajinan();
        $data["batu"] = $this->Batu_model->tampil_batu();
        $data["produk"] = $this->Produk_model->tampil_produk();
        $this->load->view('administrator/data_kerajinan', $data);
        $this->load->view('template/footer');
    }

    public function data_kerajinan() {
        $data["kerajinan_join"] = $this->Kerajinan_model-
>tampil_Alljoin();

        $data["kerajinan"] = $this->Kerajinan_model-
>tampil_kerajinan();
        $data["batu"] = $this->Batu_model->tampil_batu();
        $data["produk"] = $this->Produk_model->tampil_produk();
        $this->load->view('administrator/data_kerajinan', $data);
        $this->load->view('template/footer');
    }

    public function tambah_kerajinan() {

        $this->load->helper('form');
        $this->load->library('form_validation');
        $this->load->library('session');

        $data["batu"] = $this->Batu_model->tampil_batu();
        $data["produk"] = $this->Produk_model->tampil_produk();

        // $this->form_validation-
>set_rules('gambar', 'Gambar', 'required');
        $this->form_validation->set_rules('produk_kerajinan',
'Produk Kerajinan', 'required');
        $this->form_validation->set_rules('jenis_batu', 'Jenis
Batu', 'required');
        $this->form_validation->set_rules('ukuran', 'Ukuran',
'required');
        $this->form_validation->set_rules('warna', 'Warna',
'required');
        $this->form_validation->set_rules('harga', 'Harga',
'required');
        if ($this->form_validation->run() == false) {
            $this->load->view('administrator/tambah_kerajinan',
$data);
            $this->load->view('template/footer');
        } else {
            //image
            $upload_img = $_FILES['image']['name'];

            if ($upload_img) {
                $config['allowed_types'] = 'gif|jpg|png';
                $config['max_size'] = '5000';
                $config['upload_path'] = './assets/img/produk/';

                $this->load->library('upload', $config);

                if ($this->upload->do_upload('image')) {
                    $new_image = $this->upload->data('file_name');
                    $this->db->set('gambar', $new_image);
                }
            }
        }
    }

```

```

    } else {
        echo $this->upload->display_errors();
    }
}

$produk = $this->input->post('produk_kerajinan');
$jenis_batu = $this->input->post('jenis_batu');
$ukuran = $this->input->post('ukuran');
$warna = $this->input->post('warna');
$harga = $this->input->post('harga');
$this->Kerajinan_model->simpan_data($produk, $jenis_batu,
$ukuran, $warna, $harga);
$this->session->set_flashdata('message', '<div
class="alert alert-info" role="alert">
                Data Berhasil Ditambahkan
                </div>');
    redirect('Kerajinan/data_kerajinan');
}
}

public function edit_kerajinan($id) {
    $this->load->helper('form');
    $this->load->library('form_validation');
    $this->load->library('session');

    // $where = array('ID_kerajinan' => $id);
    // $data['kerajinan'] = $this->Kerajinan_model-
>edit_datakerajinan($where, 'tb_kerajinan')->result_array();
    $data["batu"] = $this->Batu_model->tampil_batu();
    $data["produk"] = $this->Produk_model->tampil_produk();
    $data["kerajinan"] = $this->Kerajinan_model-
>tampil_kerajinan_ById($id);

    // $this->form_validation-
>set_rules('gambar', 'Gambar', 'required');
    $this->form_validation->set_rules('produk_kerajinan',
'Produk Kerajinan', 'required');
    $this->form_validation->set_rules('jenis_batu', 'Jenis
Batu', 'required');
    $this->form_validation->set_rules('ukuran', 'Ukuran',
'required');
    $this->form_validation->set_rules('warna', 'Warna',
'required');
    $this->form_validation->set_rules('harga', 'Harga',
'required');
    if ($this->form_validation->run() == false) {
        $this->load->view('administrator/edit_kerajinan', $data);
        $this->load->view('template/footer');
    } else {

        $upload_img = $_FILES['image']['name'];

        if ($upload_img) {
            $config['allowed_types'] = 'gif|jpg|png';
            $config['max_size'] = '5000';
            $config['upload_path'] = './assets/img/produk/';

            $this->load->library('upload', $config);

```

```

        if ($this->upload->do_upload('image')) {
            $old_img = $this->input->post('old_image');
            unlink(FCPATH . 'assets/img/' . $old_img);
            $new_image = $this->upload->data('file_name');
            $this->db->set('gambar', $new_image);
        } else {
            echo $this->upload->display_errors();
        }
    }

    $produk = $this->input->post('produk_kerajinan');
    $jenis_batu = $this->input->post('jenis_batu');
    $ukuran = $this->input->post('ukuran');
    $warna = $this->input->post('warna');
    $harga = $this->input->post('harga');

    $this->db->set('ID_produk', $produk);
    $this->db->set('ID_batu', $jenis_batu);
    $this->db->set('ukuran', $ukuran);
    $this->db->set('warna', $warna);
    $this->db->set('harga', $harga);
    $this->db->where('ID_kerajinan', $id);
    $this->db->update('tb_kerajinan');
    /* $this->Kerajinan_model->edit_data(); */
    $this->session->set_flashdata('message',
class="alert alert-info" role="alert">
        Data Berhasil Diubah
    </div>');
    redirect('Kerajinan/data_kerajinan');
}

public function hapus_kerajinan($id){
    $this->load->library('session');
    $this->Kerajinan_model->hapus_data($id);
    $this->session->set_flashdata('message', '<div class="alert
alert-info" role="alert">
        Data Berhasil Dihapus
    </div>');
    redirect('Kerajinan/data_kerajinan');
}

public function pdf(){
    $dompdf = new Dompdf();
    $data["kerajinan_join"] = $this->Kerajinan_model-
>tampil_Alljoin();

    $dompdf->setPaper('A4', 'Potrait');

    $html = $this->load->view('administrator/report_kerajinan',
$data, true);

    $dompdf->load_html($html);
    $dompdf->render();
    $dompdf->stream("print.pdf", array('Attachment' => false));
}
}

```

Transaksi.php

```
use Dompok\Dompok;
class Transaksi extends CI_Controller{

    public function __construct(){
        parent::__construct();
        $this->load->model('Kerajinan_model');
        $this->load->model('Transaksi_model');
        $this->load->model('Batu_model');
        $this->load->model('Produk_model');

        $this->load->view('template/header');
        $this->load->view('template/topbar');
        $this->load->view('template/sidebar');
    }

    public function index(){
        $data["kerajinan"] = $this->Kerajinan_model->
>tampil_Alljoin();
        $data["batu"] = $this->Batu_model->tampil_batu();
        $data["produk"] = $this->Produk_model->tampil_produk();
        $data["transaksi"] = $this->Transaksi_model->
>tampil_transaksi();
        $data["no"] = 1;

        $this->load->view('administrator/data_transaksi', $data);
        $this->load->view('template/footer');
    }

    public function data_transaksi(){
        $data["kerajinan"] = $this->Kerajinan_model->
>tampil_Alljoin();
        $data["batu"] = $this->Batu_model->tampil_batu();
        $data["produk"] = $this->Produk_model->tampil_produk();
        $data["transaksi"] = $this->Transaksi_model->
>tampil_transaksi();
        $data["no"] = 1;

        $this->load->view('administrator/data_transaksi', $data);
        $this->load->view('template/footer');
    }

    public function tambah(){
        $this->load->helper('form');
        $this->load->library('form_validation');

        $data["batu"] = $this->Batu_model->tampil_batu();
        $data["produk"] = $this->Produk_model->tampil_produk();
        $data["kerajinan"] = $this->Kerajinan_model->
>tampil_Alljoin();

        $this->load->view('administrator/tambah_transaksi', $data);
        $this->load->view('template/footer');
    }

    // detail transaksi
    public function save_data(){
```

```

$no_transaksi = $this->input->post('no_transaksi');
$ID_kerajinan = $this->input->post('ID_kerajinan');
$produk_kerajinan = $this->input->post('produk_kerajinan');
$jenis_batu = $this->input->post('jenis_batu');
$harga = $this->input->post('harga');
$warna = $this->input->post('warna');
$banyak = $this->input->post('txt_banyak');
$sub_total = $this->input->post('txt_subtotal');

$data = [
    'no_transaksi' => $no_transaksi,
    'ID_kerajinan' => $ID_kerajinan,
    'produk_kerajinan' => $produk_kerajinan,
    'jenis_batu' => $jenis_batu,
    'harga' => $harga,
    'warna' => $warna,
    'banyak' => $banyak,
    'sub_total' => $sub_total,
    'tanggal' => date("Y-m-d")
];
$this->Transaksi_model->tambah($data, 'tb_penjualan');
// redirect('Transaksi/tampil_transaksi');
}

// nambah data transaksi
public function save_data_transaksi(){
    $no_transaksi = $this->input->post('no_transaksi');
    $total = $this->input->post('total');

    $data = [
        'no_transaksi' => $no_transaksi,
        'tanggal' => date("Y-m-d"),
        'total' => $total
    ];
    $this->Transaksi_model->tambah($data, 'tb_transaksi');

    echo "<script> window.location.href = '<?php echo
base_url().'Transaksi/data_transaksi' ?>'; </script>";
}

public function tampil_penjualan($no_transaksi){

    $data["penjualan"] = $this->Transaksi_model-
>tampilTransaksiByNo($no_transaksi);
    $data["penjualanAll"] = $this->Transaksi_model-
>tampilPenjualanAll($no_transaksi);
    $data["no"] = 1;

    $this->load->view('administrator/data_penjualan', $data);
    $this->load->view('template/footer');
}

public function hapus($no_transaksi){
    $this->load->library('session');

    $this->Transaksi_model->hapus_data($no_transaksi);
    $this->Transaksi_model->hapus_penjualan($no_transaksi);
}

```

```

        redirect('Transaksi/data_transaksi');
    }

    public function pdf(){
        $dompdf = new Dompdf();
        $data["transaksi"] = $this->Transaksi_model->tampil_transaksi();

        $dompdf->setPaper('A4', 'Potrait');

        $html = $this->load->view('administrator/report_transaksi', $data, true);

        $dompdf->load_html($html);
        $dompdf->render();
        $dompdf->stream("print.pdf", array('Attachment' => false));
    }

    public function pdf_detail($no_transaksi)
    {
        $dompdf = new Dompdf();
        $data["penjualan"] = $this->Transaksi_model->tampilPenjualanByNo($no_transaksi);
        $data["penjualanAll"] = $this->Transaksi_model->tampilPenjualanAll($no_transaksi);

        $data['no'] = 1;

        $dompdf->setPaper('A4', 'Potrait');

        $html = $this->load->view('administrator/report_penjualan', $data, true);

        $dompdf->load_html($html);
        $dompdf->render();
        $dompdf->stream("print.pdf", array('Attachment' => false));
    }
}

```

Header.php

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="">
    <meta name="author" content="Dashboard">
    <meta name="keyword" content="Dashboard, Bootstrap, Admin, Template, Theme, Responsive, Fluid, Retina">
    <title>CV. Bukit Mulia</title>
    <style>
.footer {
    position: fixed;
    left: 0;

```

```

bottom: 0;
width: 100%;
background-color: red;
color: white;
text-align: center;
}
</style>
<!-- Favicons -->
<link href="<?= base_url();?>assets/img/logo-bukitmulia.png"
rel="icon">
<link href="<?= base_url();?>assets/img/apple-touch-icon.png"
rel="apple-touch-icon">

<!-- Bootstrap core CSS -->
<link href="<?=
base_url();?>assets/lib/bootstrap/css/bootstrap.min.css"
rel="stylesheet">
<!--external css-->
<link href="<?= base_url();?>assets/lib/font-awesome/css/font-
awesome.css" rel="stylesheet" />
<link href="<?= base_url();?>assets/lib/advanced-
datatable/css/demo_page.css" rel="stylesheet" />
<link href="<?= base_url();?>assets/lib/advanced-
datatable/css/demo_table.css" rel="stylesheet" />
<link rel="stylesheet" href="<?=
base_url();?>assets/lib/advanced-datatable/css/DT_bootstrap.css"
/>
<link rel="stylesheet" type="text/css" href="<?=
base_url();?>assets/lib/bootstrap-fileupload/bootstrap-
fileupload.css" />
<!-- Custom styles for this template -->
<link href="<?= base_url();?>assets/css/style.css"
rel="stylesheet">
<link href="<?= base_url();?>assets/css/style-responsive.css"
rel="stylesheet">
<body>

<header class="header black-bg">
<div class="sidebar-toggle-box">
<div class="fa fa-bars tooltips" data-placement="right"
data-original-title="Toggle Navigation"></div>
</div>
<!--logo start-->
<a href="<?= base_url();?>C_beranda"
class="logo"><b><span>APLIKASI FORECASTING PENJUALAN BATU CV.
BUKIT MULIA</span></b></a>
<!--logo end-->
<div class="top-menu">
<ul class="nav pull-right top-menu">
<li><a class="logout" href="<?=
base_url();?>Admin/logout">Logout</a></li>
</ul>
</div>
</header>
<aside>
<div id="sidebar" class="nav-collapse ">
<!-- sidebar menu start-->
<ul class="sidebar-menu" id="nav-accordion">

```

```

        <p class="centered"><a href="profile.html"></a></p>
        <a href="<?= base_url ();?>Profil"><h5
class="centered">Tenti Pristiani</h5></a>
        <li class="mt">
            <a class="" href="<?= base_url ();?>Dashboard">
                <i class="fa fa-tachometer"></i>
                <span><b>DASHBOARD</b></span>
            </a>
        </li>
        <li class="sub-menu">
            <a href="<?= base_url ();?>Batu">
                <i class="fa fa-clipboard"></i>
                <span><b>BATU</b></span>
            </a>
        </li>
        <li class="sub-menu">
            <a href="<?= base_url ();?>Kerajinan">
                <i class="fa fa-clipboard"></i>
                <span><b>PRODUK KERAJINAN</b></span>
            </a>
        </li>
        <li class="sub-menu">
            <a href="<?= base_url ();?>Transaksi">
                <i class="fa fa-clipboard"></i>
                <span><b>TRANSAKSI</b></span>
            </a>
        </li>
        <li class="sub-menu">
            <a href="<?= base_url ();?>Forecasting">
                <i class="fa fa-bar-chart-o"></i>
                <span><b>FORECASTING</b></span>
            </a>
        </li>
    </ul>
    <!-- sidebar menu end-->
</div>
</aside>

```

View_admin.php

```

<div id="login-page">
    <div class="container">
        <form class="form-login" action="<?=
base_url ();?>Admin/login_validation" method="post">
            <h2 class="form-login-heading">Login</h2>
            <div class="login-wrap">
                <input type="text" class="form-control"
placeholder="Username" name ="username" autofocus>
                <br>
                <input type="password" class="form-control"
placeholder="Password" name="password">
                <br>
                <button class="btn btn-theme btn-block" href="<?=
base_url ();?>Dashboard" type="submit"><i class="fa fa-
lock"></i>LOGIN</button>

```



```

        </div>
        <!-- Modal -->

        <!-- modal -->
    </form>
</div>
</div>

```

View_dashboard.php

```

<section id="main-content">
  <section class="wrapper">
    <div class="row">
      <div class="col-lg-12 main-chart">
        <!--CUSTOM CHART START -->
        <div class="border-head">
          <h3><b>HALAMAN DASHBOARD</b></h3>
        </div>
        <div>
          <!-- <h2><b>HALAMAN DASHBOARD</b> </h2> -->
        </div>
        <div class="col-md-3 col-sm-3 mb">
          <div class="grey-panel pn donut-chart">
            <div class="grey-header">
              <h4><b>BATU</b></h4>
            </div>
            
            <div class="row">
              <div class="col-sm-6 col-xs-6 goleft">
                <p>Jumlah<br />Jenis Batu</p>
              </div>
              <div class="col-sm-6 col-xs-6">
                <h2><?php echo $jumlahBatu ?></h2>
              </div>
            </div>
          </div>
        </div>
        <div class="col-md-3 col-sm-3 mb">
          <div class="grey-panel pn donut-chart">
            <div class="grey-header">
              <h4><b>KERAJINAN</b></h4>
            </div>
            
            <div class="row">
              <div class="col-sm-6 col-xs-6 goleft">
                <p>Jumlah<br />Kerajinan</p>
              </div>
              <div class="col-sm-6 col-xs-6">
                <h2><?php echo $jumlahKerajinan ?></h2>
              </div>
            </div>
          </div>
        </div>
        <div class="col-md-3 col-sm-3 mb">
          <div class="grey-panel pn donut-chart">
            <div class="grey-header">
              <h4><b>TRANSAKSI</b></h4>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>

```

```

        </div>
        
        <div class="row">
            <div class="col-sm-6 col-xs-6 goleft">
                <p>Jumlah<br />Transaksi</p>
            </div>
            <div class="col-sm-6 col-xs-6">
                <h2><?php echo $jumlahTransaksi ?></h2>
            </div>
        </div>
    </div>
</div>
<div class="col-md-3 col-sm-3 mb">
    <div class="grey-panel pn donut-chart">
        <div class="grey-header">
            <h4><b>PENJUALAN</b></h4>
        </div>
        
        <div class="row">
            <div class="col-sm-6 col-xs-6 goleft">
                <p>Jumlah<br />Penjualan</p>
            </div>
            <div class="col-sm-6 col-xs-6">
                <h2><?php echo $jumlahPenjualan ?></h2>
            </div>
        </div>
    </div>
</div>
<div class="col-md-12 mb">
    <div class="message-p pn">
        <div class="message-header">
            <h3><b>PROFIL CV. BUKIT MULIA</b></h3>
        </div>
        <div class="row">
            <div class="col-md-3 centered hidden-sm hidden-xs">
                
            </div>
            <div class="col-md-9">
                <p>
                    <name>CV. BUKIT MULIA</name>
                </p>
                <p class="small">Commanditaire Vennootschap</p>
                <p class="message">
                    <table style="width:750px;">
                        <tr>
                            <td><b>BERDIRI</b></td>
                            <td>:</td>
                            <td><b>AGUSTUS 2017</b></td>
                        </tr>
                        <tr>
                            <td><b>NAMA PEMILIK</b></td>
                            <td>:</td>
                            <td><b>JANJANG KURNIAWAN</b></td>
                        </tr>
                        <tr>
                            <td><b>JAM BUKA</b></td>
                    </table>
                </p>
            </div>
        </div>
    </div>
</div>

```



```

        <th>Ops</th>
    </tr>
</thead>
<tbody>
    <?php
    $ID = 0;
    foreach ($batu as $bt) {
        $ID++;
        ?>
        <tr>
            <td><?php echo $bt['ID_batu'] ?></td>
            <td><?php echo $bt['jenis_batu'] ?></td>
            <td>
                <a class="btn btn-theme" href="<?=  

base_url(); ?>Batu/edit_batu/<?php echo $bt['ID_batu'] ?>">
                    <i class="fa fa-edit" style="font-size :  

25px"></i>
                </a>
                <a class="btn btn-theme04" href="<?=  

base_url(); ?>Batu/hapus_batu/<?php echo $bt['ID_batu'] ?>"  

onclick="return confirm('Yakin ingin menghapus data?')">
                    <i class="fa fa-trash-o" style="font-size  

: 25px"></i>
                </a>
            </td>
        </tr>
    <?php }
    ?>
</tbody>
</table>
</div>
</div>
</section>
</section>

```

View_data_kerajinan.php

```

<section id="main-content">
    <section class="wrapper">
        <div class="row">
            <div class="col-lg-12 main-chart">
                <!--CUSTOM CHART START -->
                <div class="border-head">
                    <h3><b>PENDATAAN PRODUK KERAJINAN</b></h3>
                    <?=  

session->flashdata('message'); ?>
                </div>
                <div class="row">
                    <div class="col-sm-6">
                        <a class="btn btn-primary" href="<?=  

base_url(); ?>Kerajinan/tambah_kerajinan"><i class="fa  

fa-plus"></i><b>T  

ambah Data</b></a>
                        <a class="btn btn-theme" href="<?=  

base_url(); ?>Kerajinan/pdf"><b>Download  

</b><i class="fa  

fa-  

download"></i></a>
                    </div>

```

```

</div><br>
<div class="breadcrumb mb-4">
  <div class="adv-table">
    <table cellpadding="0" cellspacing="0" border="0"
class="display table table-bordered" id="hidden-table-info">
      <thead>
        <tr>
          <th>ID</th>
          <th>Gambar</th>
          <th>Produk Kerajinan</th>
          <th>Jenis Batu</th>
          <th>Ukuran</th>
          <th>Warna</th>
          <th>Harga</th>
          <th>Opsional</th>
        </tr>
      </thead>
      <tbody>
        <?php
          $id = 0;
          foreach ($kerajinan_join as $kr) {
            $id++;
            ?>
            <tr>
              <td><?php echo $kr['ID_kerajinan'] ?></td>
              <td>
                <a target="_blank" href="<?== base_url();
?>assets/img/produk/<?== $kr['gambar'] ?>"></a>
                <center></center>
              </td>
              <td><?php echo $kr['produk_kerajinan']
?></td>
              <td><?php echo $kr['jenis_batu'] ?></td>
              <td><?php echo $kr['ukuran'] ?></td>
              <td><?php echo $kr['warna'] ?></td>
              <td><?php echo $kr['harga'] ?></td>
              <td>
                <a class="btn btn-theme" href="<?==
base_url(); ?>Kerajinan/edit_kerajinan/<?php echo
$kr['ID_kerajinan'] ?>">
                  <i class="fa fa-edit" style="font-size :
25px"></i>
                </a>
                <a class="btn btn-theme04" href="<?==
base_url(); ?>Kerajinan/hapus_kerajinan/<?php echo
$kr['ID_kerajinan'] ?> " onclick="return confirm('Yakin ingin
menghapus data?')">
                  <i class="fa fa-trash-o" style="font-size
: 25px"></i>
                </a>
              </td>
            </tr>
          <?php }
        ?>
      </tbody>
    </table>
  </div>

```

```

        </div>
    </div>
</div>
</div>
</section>
</section>

```

View_data_transaksi.php

```

<section id="main-content">
  <section class="wrapper">
    <div class="row">
      <div class="col-lg-12 main-chart">
        <!--CUSTOM CHART START -->
        <div class="border-head">
          <h3><b>TRANSAKSI PENJUALAN</b></h3>
          <?=$this->session->flashdata('message'); ?>
        </div>
        <div class="row">
          <div class="col-sm-6">
            <a class="btn btn-primary" href="<?=$base_url();
?>Transaksi/tambah"><i class="fa fa-plus"></i><b> Tambah
Data</b></a>
            <a class="btn btn-theme" href="<?=$base_url();
?>Transaksi/pdf"><b>Download </b><i class="fa fa-
download"></i></a>
          </div>
        </div><br>
        <div class="breadcrumb mb-4">
          <div class="adv-table">
            <table cellpadding="0" cellspacing="0" border="0"
class="display table table-bordered" id="hidden-table-info">
              <thead>
                <tr>
                  <th>No</th>
                  <th>No Transaksi</th>
                  <th>Tanggal</th>
                  <th>Total</th>
                  <th>Opsis</th>
                </tr>
              </thead>
              <tbody>
                <?php
                foreach ($transaksi as $tr) {
                  ?>
                  <tr>
                    <td><?php echo $no++ ?></td>
                    <td><?php echo $tr['no_transaksi'] ?></td>
                    <td><?php echo $tr['tanggal'] ?></td>
                    <td>Rp <?php
                    echo
                    number_format($tr['total'],0, ',', '.')?></td>
                    <td>
                      <a class="btn btn-theme" href="<?=$
base_url(); ?>Transaksi/tampil_penjualan/<?php
echo
                      $tr['no_transaksi']; ?>">
                        <i class="fa fa-eye" style="font-size :
25px"></i>
                      </a>

```

```

                <a class="btn btn-theme04" href="<?=
base_url(); ?>Transaksi/hapus/<?php echo $tr['no_transaksi']; ?>"
onclick="return confirm('Yakin ingin menghapus data?')">
                    <i class="fa fa-trash-o" style="font-size
: 25px"></i>
                </a>
            </td>
        </tr>
    <?php }
    ?>
</tbody>
</table>
</div>
</div>
</div>
</div>
</section>
</section>

```

View_data_penjualan.php

```

<section id="main-content">
    <section class="wrapper">
        <div class="row">
            <div class="col-lg-12 main-chart">
                <!--CUSTOM CHART START -->
                <div class="border-head">
                    <h3>DETAIL PENJUALAN</h3>
                    <!--
                    <?=
                    $this->session-
>flashdata('message'); ?> -->
                </div>
                <div class="row">
                    <div class="col-sm-6">
                        <a class="btn btn-theme" href="<?=
base_url();
                ?>Transaksi/pdf_detail/<?php
                echo
                $penjualanAll['no_transaksi']; ?><b>Download </b><i class="fa fa-
download"></i></a>
                    </div>
                </div><br>
                <div class="breadcrumb mb-4">
                    <div class="row">
                        <!--
                        <div class="col-md-3 centered
hidden-sm hidden-xs">
                            </div> -->
                        <div class="col-md-8">
                            <h3>CV. BUKIT MULIA</h3>
                            Jl. Raya Cerme, Gamping, Campurdarat,
Kab. Tulungagung, 66272 <br>
                            Telp. 0812-8631-3688
                        </div>
                        <table style="width: 300px;">
                            <?php
                            foreach ($penjualan as $pj) {
                                ?>

```

```

                <tr>
                    <td>
                        <h4>No Transaksi</h4>
                    </td>
                    <td>
                        <h4>:</h4>
                    </td>
                    <td>
                        <h4><?php          echo
$pj['no_transaksi'] ?></h4>
                    </td>
                </tr>
                <tr>
                    <td>
                        <h4>Tanggal</h4>
                    </td>
                    <td>
                        <h4>:</h4>
                    </td>
                    <td>
                        <h4><?php          echo
$pj['tanggal'] ?></h4>
                    </td>
                </tr>
            <?php }
            ?>
        </table>
    </div><br>
    <div class="adv-table">
        <table cellpadding="0" cellspacing="0"
border="0" class="display table table-bordered">
            <thead>
                <tr>
                    <th>No</th>
                    <th>Produk Kerajinan</th>
                    <th>Jenis Batu</th>
                    <th>Harga</th>
                    <th>Warna</th>
                    <th>Banyak</th>
                    <th>Sub Total</th>
                </tr>
            </thead>
            <tbody>
                <?php
                foreach ($penjualanAll as $l) {

                    ?>

                    <tr>
                        <td><?php          echo          $no++
?></td>
                        <td><?php          echo
$1['produk_kerajinan'] ?></td>
                        <td><?php          echo
$1['jenis_batu'] ?></td>
                        <td>Rp          <?php          echo
number_format($1['harga'], 0, ',', '.') ?></td>

```



```
 <?php echo $1['warna'] ?></td>  <?php echo $1['banyak'] ?></td>  Rp <?php echo number_format($1['sub_total'], 0, ',', '.') ?></td> </tr> <?php } ?> </tbody> <tfoot> <tr> <td colspan="6" align="right"> <h4>Total :</h4> </td> <td> <h4>Rp <?php echo number_format($pj['total'], 0, ',', '.') ?></h4> </td> </tr> </tfoot> </table> </div> </div> </div> </section> </section> | | |
```

View_data_forecasting.php

```

<section id="main-content">
  <!-- <br><br><br><br> -->
  <?php
    $tahun = ['2017', '2018', '2019'];
    $bulan = ['01', '02', '03', '04', '05', '06', '07', '08', '09', '10', '11', '12'];
    $dataAwalMarmer = array();

    foreach ($tahun as $t) {
      $x = array();
      foreach ($bulan as $bul) {
        $jml = 0;

        foreach ($marmer as $p) {
          if ($t == substr($p['tanggal'],0,4)) {
            if ($bul == substr($p['tanggal'],5,2)) {
              $jml+= $p['banyak'];
            }
          }
        }

        $x[] = ["x" => (int)$bul, "y" => $jml];
      }
    }
  }

```

```

    $dataAwalMarmer[$t] = $x;
}

// var_dump($dataAwalMarmer);

$dataHasilMarmer = array();
$dataHasilMarmer1 = array();
$dataHasilMarmer2 = array();

foreach ($dataAwalMarmer as $key => $data) {
    $array = array();
    $x = 13;
    $xTotal = 0;
    $yTotal = 0;
    $xyTotal = 0;
    $xxTotal = 0;

    foreach ($data as $key1 => $d) {
        // echo $x." | ".$d['y']." => xy : ".$x*$d['y']." => xx
: ".$x*$x."<br>";

        $array[] = ["x"=>$x, "y"=>$d['y'], "xy"=>$x*$d['y'],
"xx"=>$x*$x];
        $xTotal += $x;
        $yTotal += $d['y'];
        $xyTotal += $x*$d['y'];
        $xxTotal += $x*$x;
        $x++;
    }

    $dataHasilMarmer[$key] = $array;

    $a = ((($yTotal*$xxTotal) -
($xTotal*$xyTotal)) / ((12*$xxTotal) - (pow($xTotal,2))));
    $b = ((12*$xyTotal) - ($xTotal*$yTotal)) / ((12*$xxTotal) -
(pow($xTotal,2)));

    $x = 13;
    $absY_yATotal = 0;
    $absY_yA_powTotal = 0;

    $array2 = array();

    foreach ($data as $key2 => $d) {
        $yA = $a + ($b*$x);
        $absY_yA = abs($d['y'] - $yA);
        $absY_yA_pow = pow($absY_yA, 2);

        $array2[] = ["yA"=>$yA, "absY_yA"=>$absY_yA,
"absY_yA_pow"=>$absY_yA_pow];

        $absY_yATotal += $absY_yA;
        $absY_yA_powTotal += $absY_yA_pow;
        $x++;
    }

    // var_dump($array2);
    $dataHasilMarmer1[$key] = $array2;
}

```

```

$MSE = 1/12*$absY_yA_powTotal;
$RMSE = sqrt($MSE);
$MAPE = ($yTotal) ? 1/12*$absY_yATotal/$yTotal*100 : 0;

$dataHasilMarmer2[$key] = ["xTotal"=>$xTotal,
"yTotal"=>$yTotal, "xyTotal"=>$xyTotal, "xxTotal"=>$xxTotal,
"a"=>$a, "b"=>$b, "MSE"=>$MSE, "RMSE"=>$RMSE, "MAPE"=>$MAPE];

}

// var_dump($dataHasilMarmer);
// echo "<br>";
// var_dump($dataHasilMarmer1);
// echo "<br>";
// var_dump($dataHasilMarmer2);

// proses
$dataAwalOnyx = array();

foreach ($tahun as $t) {
    $x = array();
    foreach ($bulan as $bul) {
        $jml = 0;

        foreach ($onyx as $p) {
            if ($t == substr($p['tanggal'],0,4)) {
                if ($bul == substr($p['tanggal'],5,2)) {
                    $jml+= $p['banyak'];
                }
            }
        }

        $x[] = ["x" => (int)$bul,"y" => $jml];
    }

    $dataAwalOnyx[$t] = $x;
}

// var_dump($dataAwalOnyx);

$dataHasilOnyx = array();
$dataHasilOnyx1 = array();
$dataHasilOnyx2 = array();

foreach ($dataAwalOnyx as $key => $data) {
    $array = array();
    $x = 13;
    $xTotal = 0;
    $yTotal = 0;
    $xyTotal = 0;
    $xxTotal = 0;

    foreach ($data as $key1 => $d) {
        // echo $x." | ".$d['y']." => xy : ".$x*$d['y']." => xx
: ".$x*$x."<br>";
    }
}

```

```

        $array[] = ["x"=>$x, "y"=>$d['y'], "xy"=>$x*$d['y'],
"xx"=>$x*$x];
        $xTotal += $x;
        $yTotal += $d['y'];
        $xyTotal += $x*$d['y'];
        $xxTotal += $x*$x;
        $x++;
    }

    $dataHasilOnyx[$key] = $array;

    $a = ((($yTotal*$xxTotal) -
($xTotal*$xyTotal))/((12*$xxTotal) - (pow($xTotal,2))));
    $b = ((12*$xyTotal) - ($xTotal*$yTotal))/((12*$xxTotal) -
(pow($xTotal,2)));

    $x = 13;
    $absY_yATotal = 0;
    $absY_yA_powTotal = 0;

    $array2 = array();

    foreach ($data as $key2 => $d) {
        $yA = $a+($b*$x);
        $absY_yA = abs($d['y'] - $yA);
        $absY_yA_pow = pow($absY_yA, 2);

        $array2[] = ["yA"=>$yA, "absY_yA"=>$absY_yA,
"absY_yA_pow"=>$absY_yA_pow];

        $absY_yATotal += $absY_yA;
        $absY_yA_powTotal += $absY_yA_pow;
        $x++;
    }

    // var_dump($array2);
    $dataHasilOnyx1[$key] = $array2;

    $MSE = 1/12*$absY_yA_powTotal;
    $RMSE = sqrt($MSE);
    $MAPE = ($yTotal) ? 1/12*$absY_yATotal/$yTotal*100 : 0;

    $dataHasilOnyx2[$key] = ["xTotal"=>$xTotal,
"yTotal"=>$yTotal, "xyTotal"=>$xyTotal, "xxTotal"=>$xxTotal,
"a"=>$a, "b"=>$b, "MAPE"=>$MAPE];

}

// var_dump($dataHasilOnyx);
// echo "<br>";
// var_dump($dataHasilOnyx1);
// echo "<br>";
// var_dump($dataHasilOnyx2);

// proses
$dataAwalZeolite = array();

foreach ($tahun as $t) {
    $x = array();

```

```

foreach ($bulan as $bul) {
    $jml = 0;

    foreach ($zeolite as $p) {
        if ($t == substr($p['tanggal'],0,4)) {
            if ($bul == substr($p['tanggal'],5,2)) {
                $jml+= $p['banyak'];
            }
        }
    }

    $x[] = ["x" => (int)$bul, "y" => $jml];
}

$dataAwalZeolite[$t] = $x;
}

// var_dump($dataAwalZeolite);

$dataHasilZeolite = array();
$dataHasilZeolite1 = array();
$dataHasilZeolite2 = array();

foreach ($dataAwalZeolite as $key => $data) {
    $array = array();
    $x = 13;
    $xTotal = 0;
    $yTotal = 0;
    $xyTotal = 0;
    $xxTotal = 0;

    foreach ($data as $key1 => $d) {
        // echo $x." | ".$d['y']." => xy : ".$x*$d['y']." => xx
        : ".$x*$x."<br>";

        $array[] = ["x"=>$x, "y"=>$d['y'], "xy"=>$x*$d['y'],
"xx"=>$x*$x];
        $xTotal += $x;
        $yTotal += $d['y'];
        $xyTotal += $x*$d['y'];
        $xxTotal += $x*$x;
        $x++;
    }

    $dataHasilZeolite[$key] = $array;

    $a = ((($yTotal*$xxTotal) -
($xTotal*$xyTotal)) / ((12*$xxTotal) - (pow($xTotal,2))));
    $b = ((12*$xyTotal) - ($xTotal*$yTotal)) / ((12*$xxTotal) -
(pow($xTotal,2)));

    $x = 13;
    $absY_yATotal = 0;
    $absY_yA_powTotal = 0;

    $array2 = array();

```

```

    foreach ($data as $key2 => $d) {
        $yA = $a+($b*$x);
        $absY_yA = abs($d['y'] - $yA);
        $absY_yA_pow = pow($absY_yA, 2);

        $array2[] = ["yA"=>$yA, "absY_yA"=>$absY_yA,
"absY_yA_pow"=>$absY_yA_pow];

        $absY_yATotal += $absY_yA;
        $absY_yA_powTotal += $absY_yA_pow;
        $x++;
    }

    // var_dump($array2);
    $dataHasilZeolite1[$key] = $array2;

    $MSE = 1/12*$absY_yA_powTotal;
    $RMSE = sqrt($MSE);
    $MAPE = ($yTotal) ? 1/12*$absY_yATotal/$yTotal*100 : 0;

    $dataHasilZeolite2[$key] = ["xTotal"=>$xTotal,
"yTotal"=>$yTotal, "xyTotal"=>$xyTotal, "xxTotal"=>$xxTotal,
"a"=>$a, "b"=>$b, "MAPE"=>$MAPE];

}

// var_dump($dataHasilZeolite);
// echo "<br>";
// var_dump($dataHasilZeolite1);
// echo "<br>";
// var_dump($dataHasilZeolite2);

// proses

$dataAwalAndesit = array();

foreach ($tahun as $t) {
    $x = array();
    foreach ($bulan as $bul) {
        $jml = 0;

        foreach ($andesit as $p) {
            if ($t == substr($p['tanggal'],0,4)) {
                if ($bul == substr($p['tanggal'],5,2)) {
                    $jml+= $p['banyak'];
                }
            }
        }

        $x[] = ["x" => (int)$bul,"y" => $jml];
    }

    $dataAwalAndesit[$t] = $x;
}

// var_dump($dataAwalAndesit);

$dataHasilAndesit = array();

```

```

$dataHasilAndesit1 = array();
$dataHasilAndesit2 = array();

foreach ($dataAwalAndesit as $key => $data) {
    $array = array();
    $x = 13;
    $xTotal = 0;
    $yTotal = 0;
    $xyTotal = 0;
    $xxTotal = 0;

    foreach ($data as $key1 => $d) {
        // echo $x." | ".$d['y']." => xy : ".$x*$d['y']." => xx
: ".$x*$x."<br>";

        $array[] = ["x"=>$x, "y"=>$d['y'], "xy"=>$x*$d['y'],
"xx"=>$x*$x];
        $xTotal += $x;
        $yTotal += $d['y'];
        $xyTotal += $x*$d['y'];
        $xxTotal += $x*$x;
        $x++;
    }

    $dataHasilAndesit[$key] = $array;

    $a = ((($yTotal*$xxTotal) -
($xTotal*$xyTotal)) / ((12*$xxTotal) - (pow($xTotal,2))));
    $b = ((12*$xyTotal) - ($xTotal*$yTotal)) / ((12*$xxTotal) -
(pow($xTotal,2)));

    $x = 13;
    $absY_yATotal = 0;
    $absY_yA_powTotal = 0;

    $array2 = array();

    foreach ($data as $key2 => $d) {
        $yA = $a+($b*$x);
        $absY_yA = abs($d['y'] - $yA);
        $absY_yA_pow = pow($absY_yA, 2);

        $array2[] = ["yA"=>$yA, "absY_yA"=>$absY_yA,
"absY_yA_pow"=>$absY_yA_pow];

        $absY_yATotal += $absY_yA;
        $absY_yA_powTotal += $absY_yA_pow;
        $x++;
    }

    // var_dump($array2);
    $dataHasilAndesit1[$key] = $array2;

    $MSE = 1/12*$absY_yA_powTotal;
    $RMSE = sqrt($MSE);
    $MAPE = ($yTotal) ? 1/12*$absY_yATotal/$yTotal*100 : 0;

```

```

        $dataHasilAndesit2[$key] = ["xTotal"=>$xTotal,
"yTotal"=>$yTotal, "xyTotal"=>$xyTotal, "xxTotal"=>$xxTotal,
"a"=>$a, "b"=>$b, "MAPE"=>$MAPE];
    }

    // var_dump($dataHasilAndesit);
    // echo "<br>";
    // var_dump($dataHasilAndesit1);
    // echo "<br>";
    // var_dump($dataHasilAndesit2);

?>

<section class="wrapper">
    <div class="row">
        <div class="col-lg-12 main-chart">
            <!--CUSTOM CHART START -->
            <div class="border-head">
                <h3><b>FORECASTING PENJUALAN BATU</b></h3>
            <div class="row">

                <div class="col-lg-3">
                    <div class="form-group">
                        <label for="bulan" class="control-label col-
lg-5">Jenis Batu</label>
                        <div class="col-lg-6">
                            <select class=" form-control" id="cmb_batu"
name="" type="text" >
                                <option value="marmer">Marmer</option>
                                <option value="onyx">Onyx</option>
                                <option value="zeolite">Zeolite</option>
                                <option value="andesit">Andesit</option>
                            </select>
                        </div>
                    </div>
                </div>

                <div class="col-lg-3">
                    <div class="form-group ">
                        <label for="bulan" class="control-label col-
lg-2">Tahun</label>
                        <div class="col-lg-10">
                            <select class=" form-control"
id="cmb_tahun" name="" type="text" >
                                <option>2017</option>
                                <option>2018</option>
                                <option>2019</option>
                            </select>
                        </div>
                    </div>
                </div>

                <a class = "btn btn-primary" href="#"
id="btn_ramal">Hitung</a>
                <a class="btn btn-theme" href="<?= base_url();
?>Forecasting/pdf"><b>Download </b><i class="fa fa-
download"></i></a>

```



```

</div>

<br>

<div class ="breadcrumb mb-4 col-lg-6 " >
<!-- <div class="adv-table"> -->
<h4>Perhitungan Nilai X, Y, XY, XX, Y'</h4>
<table class="table table-bordered table-striped
table-condensed">
  <thead>
    <tr>
      <th>Periode (X)</th>
      <th>banyak (Y)</th>
      <th>(XY)</th>
      <th>(XX)</th>
      <th>(Y')</th>
    </tr>
  </thead>
  <tbody id="tampil_hasil">

  </tbody>
</table>
</div>

<div class ="breadcrumb mb-4 col-lg-6 " >
<!-- <div class="adv-table"> -->
<h4>Perhitungan Nilai a dan b</h4>
<table class="table table-bordered table-striped
table-condensed">
  <thead>
    <tr>
      <th>Nilai a</th>
      <th>Nilai b</th>
    </tr>
  </thead>
  <tbody id="tampil_hasil1">

  </tbody>
</table>
<br>
<h4>Pengujian Keakurasian</h4>
<table class="table table-bordered table-striped
table-condensed">
  <thead>
    <tr>
      <!-- <th>MSE</th>-->
      <!-- <th>RMSE</th>-->
      <th>MAPE %</th>
    </tr>
  </thead>
  <tbody id="tampil_hasil2">

  </tbody>
</table>
</div>
<div class ="breadcrumb mb-4 col-lg-12 " >
  <h4 id="labelGrafik">Grafik Forecasting</h4>
  <canvas id="myChart"></canvas>

```

```

        </div>

        </div>

        </div>
    </div>
</section>
</section>

<script type="text/javascript">
    var dataHasilMarmer= <?php echo json_encode($dataHasilMarmer);
?>;
    var          dataHasilMarmer1=          <?php          echo
json_encode($dataHasilMarmer1); ?>;
    var          dataHasilMarmer2=          <?php          echo
json_encode($dataHasilMarmer2); ?>;

    var dataHasilOnyx= <?php echo json_encode($dataHasilOnyx); ?>;
    var dataHasilOnyx1= <?php echo json_encode($dataHasilOnyx1);
?>;
    var dataHasilOnyx2= <?php echo json_encode($dataHasilOnyx2);
?>;

    var          dataHasilZeolite=          <?php          echo
json_encode($dataHasilZeolite); ?>;
    var          dataHasilZeolite1=        <?php          echo
json_encode($dataHasilZeolite1); ?>;
    var          dataHasilZeolite2=        <?php          echo
json_encode($dataHasilZeolite2); ?>;

    var          dataHasilAndesit=         <?php          echo
json_encode($dataHasilAndesit); ?>;
    var          dataHasilAndesit1=        <?php          echo
json_encode($dataHasilAndesit1); ?>;
    var          dataHasilAndesit2=        <?php          echo
json_encode($dataHasilAndesit2); ?>;
</script>

```

Lampiran 32 Source code Footer.php

```

<footer class="site-footer">

    <div class="text-center">
        <div style="margin-left :220px">
            <p>
                &copy; Regresi Linier <strong>2020</strong>. Forecasting
                Penjualan Batu
            </p>
        </div>
    </div>
</footer>

</footer>
<!-- footer end-->
</section>
<!-- js placed at the end of the document so the pages load faster
-->

```

```

<script src="<?= base_url();
?>assets/lib/jquery/jquery.min.js"></script>
<script type="text/javascript" language="javascript" src="<?=
base_url(); ?>assets/lib/advanced-
datatable/js/jquery.js"></script>
<script src="<?= base_url();
?>assets/lib/bootstrap/js/bootstrap.min.js"></script>
<script src="<?= base_url(); ?>assets/lib/jquery-ui-
1.9.2.custom.min.js"></script>
<script src="<?= base_url(); ?>assets/lib/jquery.ui.touch-
punch.min.js"></script>
<script class="include" type="text/javascript" src="<?=
base_url(); ?>assets/lib/jquery.dcjqaccordion.2.7.js"></script>
<script src="<?= base_url();
?>assets/lib/jquery.scrollTo.min.js"></script>
<script src="<?= base_url(); ?>assets/lib/jquery.nicescroll.js"
type="text/javascript"></script>
<script type="text/javascript" language="javascript" src="<?=
base_url(); ?>assets/lib/advanced-
datatable/js/jquery.dataTables.js"></script>
<script type="text/javascript" src="<?= base_url();
?>assets/lib/advanced-datatable/js/DT_bootstrap.js"></script>
<script type="text/javascript" src="<?= base_url();
?>assets/lib/bootstrap-fileupload/bootstrap-
fileupload.js"></script>
<!--common script for all pages-->
<script src="<?= base_url(); ?>assets/lib/common-
scripts.js"></script>
<!--script for this page-->

<script type="text/javascript">
  /* Formatting function for row details */
  function fnFormatDetails(oTable, nTr) {
    var aData = oTable.fnGetData(nTr);
    var sOut = '<table cellpadding="5" cellspacing="0" border="0"
style="padding-left:50px;">';
    sOut += '<tr><td>Rendering engine:</td><td>' + aData[1] + '
' + aData[4] + '</td></tr>';
    sOut += '<tr><td>Link to source:</td><td>Could provide a link
here</td></tr>';
    sOut += '<tr><td>Extra info:</td><td>And any further details
here (images etc)</td></tr>';
    sOut += '</table>';

    return sOut;
  }

  $(document).ready(function() {
    /*
    * Insert a 'details' column to the table
    */
    var nCloneTh = document.createElement('th');
    var nCloneTd = document.createElement('td');
    // nCloneTd.innerHTML = '';
    //nCloneTd.className = "center";

    $('#hidden-table-info thead tr').each(function() {

```

```

        this.insertBefore(nCloneTh, this.childNodes[0]);
    });

    $('#hidden-table-info tbody tr').each(function() {
        this.insertBefore(nCloneTd.cloneNode(true),
this.childNodes[0]);
    });

    /*
     * Initialise DataTables, with no sorting on the 'details'
column
    */
    var oTable = $('#hidden-table-info').dataTable({
        "aoColumnDefs": [{
            "bSortable": false,
            "aTargets": [0]
        }],
        "aaSorting": [
            [1, 'asc']
        ]
    });

    /* Add event listener for opening and closing details
     * Note that the indicator for showing which row is open is
not controlled by DataTables,
     * rather it is done here
    */
    // $('#hidden-table-info tbody td img').live('click',
function() {
    // var nTr = $(this).parents('tr')[0];
    // if (oTable.fnIsOpen(nTr)) {
    //     /* This row is already open - close it */
    //     this.src = "<?= base_url(); ?>assets/lib/advanced-
datatable/media/images/details_open.png";
    //     oTable.fnClose(nTr);
    // } else {
    //     /* Open this row */
    //     this.src = "<?= base_url(); ?>assets/lib/advanced-
datatable/images/details_close.png";
    //     oTable.fnOpen(nTr, fnFormatDetails(oTable, nTr),
'details');
    // }
    // });
});
</script>

<script>
$(document).ready(function() {
    var price = 0;
    var total = 0;
    var kembali = 0;
    $('#ID_kerajinan').keypress(function(event) {
        var keycode = (event.keyCode ? event.keyCode : event.which);
        if (keycode == '13') {
            var selectedId = $(this).val();
            // console.log(selectedId);
            // console.log(kerajinanPass);
            kerajinanPass.forEach(data => {

```

```

        if (data.ID_kerajinan == selectedId) {
            $("#produk_kerajinan").val(data.produk_kerajinan);
            $("#jenis_batu").val(data.jenis_batu);
            $("#harga").val(data.harga);
            $("#warna").val(data.warna);
            price = data.harga;
        }
    });
}
});

$('#txt_banyak').keypress(function(event) {
    var keycode = (event.keyCode ? event.keyCode : event.which);
    if (keycode == '13') {
        var qty = $(this).val();
        total = qty * price;
        $("#txt_subtotal").val(total);
    }
});

$('#txt_bayar').keypress(function(event) {
    var keycode = (event.keyCode ? event.keyCode : event.which);
    if (keycode == '13') {
        var bayar = $(this).val();
        kembali = bayar - total;
        $("#txt_kembali").val(kembali);
    }
});

var no = 1;
var para = 0;
var no_transaksi,
    ID_kerajinan = [],
    produk_kerajinan = [],
    jenis_batu = [],
    harga = [],
    warna = [],
    txt_banyak = [],
    txt_subtotal = [];

var hargaTotal=0;
$("#btnTambah").click(function() {

    hargaTotal += parseInt($('#txt_subtotal').val());
    let b = `
        <tr>
            <td>${$('#ID_kerajinan').val()}</td>
            <td>${$('#produk_kerajinan').val()}</td>
            <td>${$('#jenis_batu').val()}</td>
            <td>${$('#harga').val()}</td>
            <td>${$('#warna').val()}</td>
            <td>${$('#txt_banyak').val()}</td>
            <td>${$('#txt_subtotal').val()}</td>
        <td><button class="btn btn-danger btnDelete">-
</button></td>
        </tr>
    `;
    $("#note").append(b);
});

```

```

$("#total").html(hargaTotal);

no_transaksi = $('#no_transaksi').val();
ID_kerajinan[para] = $('#ID_kerajinan').val();
produk_kerajinan[para] = $('#produk_kerajinan').val();
jenis_batu[para] = $('#jenis_batu').val();
harga[para] = $('#harga').val();
warna[para] = $('#warna').val();
txt_banyak[para] = $('#txt_banyak').val();
txt_subtotal[para] = $('#txt_subtotal').val();
no++;
para++;
});

$(document).ready(function() {
    $("#btnSimpan").click(function() {
        var total = 0;
        var x = document.getElementById("note").rows.length;

        for (let index = 0; index < x; index++) {
            $.ajax({
                type: 'POST',
                data: 'no_transaksi=' + no_transaksi +
                    '&ID_kerajinan=' + ID_kerajinan[index] +
                    '&produk_kerajinan=' + produk_kerajinan[index] +
                    '&jenis_batu=' + jenis_batu[index] +
                    '&harga=' + harga[index] +
                    '&warna=' + warna[index] +
                    '&txt_banyak=' + txt_banyak[index] +
                    '&txt_subtotal=' + txt_subtotal[index],
                url: '<?php echo base_url() . 'Transaksi/save_data'
?>',
                dataType: 'JSON'
            })
        }
        $.ajax({
            type: 'POST',
            data: 'no_transaksi=' + no_transaksi +
                '&total=' + hargaTotal,

            url: '<?php echo base_url() .
'Transaksi/save_data_transaksi' ?>',
            dataType: 'JSON'
        })

        window.location.href = '<?php echo
base_url() . 'Transaksi/data_transaksi' ?>';

    });
});

$("#note").on('click', '.btnDelete', function() {
    $(this).closest('tr').remove();
});

$("#btnReset").click(function() {
    document.getElementById("txt_tanggal").value = "";
    document.getElementById("ID_kerajinan").value = "";

```

```

        document.getElementById("produk_kerajinan").value = "";
        document.getElementById("jenis_batu").value = "";
        document.getElementById("harga").value = "";
        document.getElementById("warna").value = "";
        document.getElementById("txt_subtotal").value = "";
        // document.getElementById("txt_bayar").value = "";
        // document.getElementById("txt_kembali").value = "";
    });
})

</script>

<script
src="https://cdn.jsdelivr.net/npm/chart.js@2.8.0"></script>

<script>
    var ctx = document.getElementById('myChart').getContext('2d');

    $(document).ready(function() {
        $("#btn_ramal").click(function() {
            let html = '';
            let html1 = '';
            let html2 = '';

            if ($("#cmb_batu").find('option:selected').val() ==
"marmer") {
                $('#labelGrafik').html('Grafik Forecasting Batu Marmer')
                var index = 0;
                var yList = [];
                var yAList = [];

                dataHasilMarmer[$("#cmb_tahun").find('option:selected').val()].f
orEach(data => {
                    yList.push(data["y"]);

                    yAList.push(dataHasilMarmer1[$("#cmb_tahun").find('option:select
ed').val()][index]["yA"]);
                    let b = `
                        <tr>
                            <td>${data["x"]}</td>
                            <td>${data["y"]}</td>
                            <td>${data["xy"]}</td>
                            <td>${data["xx"]}</td>

<td>${dataHasilMarmer1[$("#cmb_tahun").find('option:selected').v
al()][index]["yA"]}</td>
                        `;

                    html += b;
                    index++;
                });

                html1 = `
                <tr>

```

```

<td>${dataHasilMarmer2[$("#cmb_tahun").find('option:selected').val()]["a"]}</td>

<td>${dataHasilMarmer2[$("#cmb_tahun").find('option:selected').val()]["b"]}</td>
</tr>
`;

    html2 = `
        <tr>
            <!--
<td>${dataHasilMarmer2[$("#cmb_tahun").find('option:selected').val()]["MSE"]}</td>-->
            <!--
<td>${dataHasilMarmer2[$("#cmb_tahun").find('option:selected').val()]["RMSE"]}</td>-->

<td>${dataHasilMarmer2[$("#cmb_tahun").find('option:selected').val()]["MAPE"]}</td>
            </tr>
        `;

    var chart = new Chart(ctx, {
        // The type of chart we want to create
        type: 'line',

        // The data for our dataset
        data: {
            labels: ['Januari', 'Februari', 'Maret', 'April', 'Mei', 'Juni', 'Juli', 'Agustus', 'September', 'Oktober', 'November', 'Desember'],
            datasets: [{
                label: '',
                borderColor: 'rgb(255, 99, 132)',
                data: yList,
                fill: false,
            }, {
                label: '',
                borderColor: 'rgb(0, 0, 102)',
                data: yAList,
                fill: false,
            }
        ]
    }, {
        // Configuration options go here
        options: {
            legend: {
                display: false
            },
            tooltips: {
                callbacks: {
                    label: function(tooltipItem) {
                        return tooltipItem.yLabel;
                    }
                }
            }
        }
    });

```



```

    }
  },
  scales: {
    xAxes: [
      {
        scaleLabel: {
          display: true,
          labelString: 'Bulan',
          fontColor: '#000000',
          fontSize: 15,
          fontStyle: 'bold'
        }
      }
    ],
    yAxes: [
      {
        scaleLabel: {
          display: true,
          labelString: 'Banyak Penjualan',
          fontColor: '#000000',
          fontSize: 15,
          fontStyle: 'bold'
        }
      }
    ]
  }
}
});

} else if ($("#cmb_batu").find('option:selected').val() ==
"onyx") {
  $('#labelGrafik').html('Grafik Forecasting Kerajinan
Batu Onyx')
  var index = 0;
  var yList = [];
  var yAList = [];

dataHasilOnyx[$("#cmb_tahun").find('option:selected').val()].for
Each(data => {
  yList.push(data["y"]);

yAList.push(dataHasilOnyx1[$("#cmb_tahun").find('option:selected
').val()][index]["yA"]);
  let b = `
    <tr>
      <td>${data["x"]}</td>
      <td>${data["y"]}</td>
      <td>${data["xy"]}</td>
      <td>${data["xx"]}</td>

<td>${dataHasilOnyx1[$("#cmb_tahun").find('option:selected').val
()][index]["yA"]}</td>
    </tr>
  `;

  html += b;
  index++;
});

```

```

        html1 = `
            <tr>

<td>${dataHasilOnyx2[$("#cmb_tahun").find('option:selected').val
()][ "a" ]}</td>

<td>${dataHasilOnyx2[$("#cmb_tahun").find('option:selected').val
()][ "b" ]}</td>
            </tr>
        `;

        html2 = `
            <tr>
                <!--
<td>${dataHasilOnyx2[$("#cmb_tahun").find('option:selected').val
()][ "MSE" ]}</td>-->
                <!--
<td>${dataHasilOnyx2[$("#cmb_tahun").find('option:selected').val
()][ "RMSE" ]}</td>-->

<td>${dataHasilOnyx2[$("#cmb_tahun").find('option:selected').val
()][ "MAPE" ]}</td>
            </tr>
        `;

        var chart = new Chart(ctx, {
            // The type of chart we want to create
            type: 'line',

            // The data for our dataset
            data: {
                labels: ['Januari', 'Februari', 'Maret', 'April',
'Mei', 'Juni', 'Juli', 'Agustus', 'September', 'Oktober',
'November', 'Desember'],
                datasets: [{
                    label: 'My First dataset',
                    borderColor: 'rgb(255, 99, 132)',
                    data: yList,
                    fill: false,
                }, {
                    label: 'My First dataset',
                    borderColor: 'rgb(0, 0, 102)',
                    data: yAList,
                    fill: false,
                }
            ]
        }, {
            // Configuration options go here
            options: {
                legend: {
                    display: false
                },
                tooltips: {
                    callbacks: {
                        label: function(tooltipItem) {
                            return tooltipItem.yLabel;
                        }
                    }
                }
            }
        },

```

```

        scales: {
            xAxes: [
                {
                    scaleLabel: {
                        display: true,
                        labelString: 'Bulan',
                        fontColor: '#000000',
                        fontSize: 15,
                        fontStyle: 'bold'
                    }
                }
            ],
            yAxes: [
                {
                    scaleLabel: {
                        display: true,
                        labelString: 'Banyak Penjualan',
                        fontColor: '#000000',
                        fontSize: 15,
                        fontStyle: 'bold'
                    }
                }
            ],
        }
    });

    } else if ($("#cmb_batu").find('option:selected').val() ==
"zeolite") {
        $('#labelGrafik').html('Grafik  Forecasting  Kerajaan
Batu Zeolite')
        var index = 0;
        var yList = [];
        var yAList = [];

        dataHasilZeolite[$("#cmb_tahun").find('option:selected').val()].
        forEach(data => {
            yList.push(data["y"]);

            yAList.push(dataHasilZeolite1[$("#cmb_tahun").find('option:selec
ted').val()][index]["yA"]);
            let b = `
                <tr>
                    <td>${data["x"]}</td>
                    <td>${data["y"]}</td>
                    <td>${data["xy"]}</td>
                    <td>${data["xx"]}</td>

<td>${dataHasilZeolite1[$("#cmb_tahun").find('option:selected').
val()][index]["yA"]}</td>
                </tr>
            `;

            html += b;
            index++;
        });

        html1 = `
        <tr>

```

```

<td>${dataHasilZeolite2[${("#cmb_tahun").find('option:selected')}.
val()][ "a" ]}</td>

<td>${dataHasilZeolite2[${("#cmb_tahun").find('option:selected')}.
val()][ "b" ]}</td>
</tr>
`;

    html2 = `
        <tr>
        <!--
<td>${dataHasilZeolite2[${("#cmb_tahun").find('option:selected')}.
val()][ "MSE" ]}</td>-->
        <!--
<td>${dataHasilZeolite2[${("#cmb_tahun").find('option:selected')}.
val()][ "RMSE" ]}</td>-->

<td>${dataHasilZeolite2[${("#cmb_tahun").find('option:selected')}.
val()][ "MAPE" ]}</td>
        </tr>
    `;
    var chart = new Chart(ctx, {
        // The type of chart we want to create
        type: 'line',

        // The data for our dataset
        data: {
            labels: ['Januari', 'Februari', 'Maret', 'April',
'Mei', 'Juni', 'Juli', 'Agustus', 'September', 'Oktober',
'November', 'Desember'],
            datasets: [{
                label: 'My First dataset',
                borderColor: 'rgb(255, 99, 132)',
                data: yList,
                fill: false,
            }, {
                label: 'My First dataset',
                borderColor: 'rgb(0, 0, 102)',
                data: yAList,
                fill: false,
            }
        ]
    }, {
        // Configuration options go here
        options: {
            legend: {
                display: false
            },

            tooltips: {
                callbacks: {
                    label: function(tooltipItem) {
                        return tooltipItem.yLabel;
                    }
                }
            },
            scales: {
                xAxes: [

```

```

        {
            scaleLabel: {
                display: true,
                labelString: 'Bulan',
                fontColor: '#000000',
                fontSize: 15,
                fontStyle: 'bold'
            }
        }
    ],
    yAxes: [
        {
            scaleLabel: {
                display: true,
                labelString: 'Banyak Penjualan',
                fontColor: '#000000',
                fontSize: 15,
                fontStyle: 'bold'
            }
        }
    ],
}
});

} else if ($("#cmb_batu").find('option:selected').val() ==
"andesit") {
    $('#labelGrafik').html('Grafik Forecasting Kerajinan
Batu Andesit')
    var index = 0;
    var yList = [];
    var yAList = [];

dataHasilAndesit[$("#cmb_tahun").find('option:selected').val()].
forEach(data => {
    yList.push(data["y"]);

yAList.push(dataHasilAndesit1[$("#cmb_tahun").find('option:selec
ted').val()][index]["yA"]);
    let b = `
        <tr>
            <td>${data["x"]}</td>
            <td>${data["y"]}</td>
            <td>${data["xy"]}</td>
            <td>${data["xx"]}</td>

<td>${dataHasilAndesit1[$("#cmb_tahun").find('option:selected').
val()][index]["yA"]}</td>
        </tr>
    `;

    html += b;
    index++;
});

html1 = `
    <tr>

```

```

<td>${dataHasilAndesit2[${("#cmb_tahun").find('option:selected')}.
val()][ "a" ]}</td>

<td>${dataHasilAndesit2[${("#cmb_tahun").find('option:selected')}.
val()][ "b" ]}</td>
</tr>
`;

    html2 = `
        <tr>
        <!--
<td>${dataHasilAndesit2[${("#cmb_tahun").find('option:selected')}.
val()][ "MSE" ]}</td>-->
        <!--
<td>${dataHasilAndesit2[${("#cmb_tahun").find('option:selected')}.
val()][ "RMSE" ]}</td>-->

<td>${dataHasilAndesit2[${("#cmb_tahun").find('option:selected')}.
val()][ "MAPE" ]}</td>
        </tr>
    `;

    var chart = new Chart(ctx, {
        // The type of chart we want to create
        type: 'line',

        // The data for our dataset
        data: {
            labels: ['Januari', 'Februari', 'Maret', 'April',
'Mei', 'Juni', 'Juli', 'Agustus', 'September', 'Oktober',
'November', 'Desember'],
            datasets: [{
                label: 'My First dataset',
                borderColor: 'rgb(255, 99, 132)',
                data: yList,
                fill: false,
            }, {
                label: 'My First dataset',
                borderColor: 'rgb(0, 0, 102)',
                data: yAList,
                fill: false,
            }
        ]
    }, {
        // Configuration options go here
        options: {
            legend: {
                display: false
            },

            tooltips: {
                callbacks: {
                    label: function(tooltipItem) {
                        return tooltipItem.yLabel;
                    }
                }
            },

            scales: {
                xAxes: [
                    {

```

```
        scaleLabel: {
            display: true,
            labelString: 'Bulan',
            fontColor: '#000000',
            fontSize: 15,
            fontStyle: 'bold'
        }
    },
    yAxes: [
        {
            scaleLabel: {
                display: true,
                labelString: 'Banyak Penjualan',
                fontColor: '#000000',
                fontSize: 15,
                fontStyle: 'bold'
            }
        }
    ],
}
});

$("#tampil_hasil").html(html);
$("#tampil_hasil1").html(html1);
$("#tampil_hasil2").html(html2);
});
});
</script>
```