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Construction Project Optimisation Control based on the Management Information System Application

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Abstract:-

Controlling construction projects is crucial in project management to maximize quality, cost and time. However, there is often an inaccuracy between planning and realisation, one of which is the reporting and control system. Therefore, this study aims to build a project management information system to optimise the construction project control process. The information system application uses an internet network connection so that project implementers can access it in real-time and make it easier to control and control. The research method is the experimental method by building applications based on Javascript, PHP, MySQL and Bootstrap. The features provided in the application are processing data plans and budget realisation, along with scheduling plans and realisation of progress implementation from Microsoft Excel files. Testing the ability of the Management information system application is carried out by asking for User Interface assessments to administrators, field implementers and construction project managers. This process obtained an average assessment of 91%, which indicated that the construction management system application received a very good predicate. This means that this information system is easy and flexible to use via the internet. This research is expected to support the performance and quality of construction project implementation in Indonesia.

Keywords:-

construction, information system, control, project management