ABSTRACT

DESIGN OF WEBSITE-BASED MAIPROYEK STARTUP APPLICATION USING LARAVEL FRAMEWORK WITH ITERATIVE INCREMENTAL METHOD TO DEVELOP STUDENT RESEARCH

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Information about the benefits of information systems at the university will be a supporting factor for the success and progress of the university. Telkom University is a university that plays an active role in science based on information technology. Telkom University has a supporting factor, namely the large number of students and the vision and mission to become Word Class Universities. Students can produce works and make one by participating in making a joint project. Referring to the MIT University (Massachusetts Institute of Technology) which has many student research projects, mostly through the MIT Undergraduate Research Opportunities Program (UROP) where more than 85% of research students are involved in research developed by organizations. Therefore, a survey and interview was conducted on 4 Lecturers and 30 Students of Telkom University related to project work, based on the results of the survey and interview, it can be denied about what experts can do to get students according to their needs. lecturer because of the limitations and information related to the project.

Based on these considerations, this research offers a web-based startup solution to achieve that goal. The MaiProject Startup was built as a solution for students and lecturers collaborating on projects. The MaiProject application was developed using the iterative incremental method where in the process, the process is divided into four phases namely Iteration, Elaboration, Construction and Transition. Testing this application uses blackbox testing with a scenario-based testing method, which discusses 14 application functionalities for lecturers, 2 functionality included in the inappropriate category, while 9 functionality offered to students, 1 included in the category have not been tried by some users. 92.98% functionality and 98.83% student functionality.

Keywords : *project, iterative incremental*, *Model View Controller*