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ABSTRACT

LMS Telkom is a mobile-based academic information system application with the aim of providing information about academics to students. This application can already be downloaded using a smartphone, however the number of users of the Telkom LMS application is very small. This is because the information provided to LMS Telkom is incomplete. In addition, there are several problems, including the *User Interface* and *User Experience* on IMS Telkom that looks less attractive.

The solution to this problem is to design the user interface and user experience using the User Centered Design method. Which consists of understanding and determining the user context, specifying user requirements, making improvements to the user interface design and evaluating the results of the new design. In implementing the design using the React Native programming language.

The results of the design of user interface and user experience designs. In the prototype that was tested on Telkom student users to the evaluation stage using the Usability Testing (UT) and System Usability Scale (SUS) methods. produces 76.5 with a processing speed of 12.32. So that it is in the good UI and UX category and the access speed of the second test is 2 times faster than the first test. So that it can be developed into the form of an application. In alpha testing, all features are successfully executed. Beta testing using a validity test shows that all items are valid. All items are very reliable after testing the student respondents with an r11 of 0.842 and teaching respondents with an r11 of 0.842.

Keywords: *Academic information system, User Interface, User Experience, User Centered Design (UCD)*