ABSTRACT

The Campus Certificate Distribution Points Counter application is a mobile-based application designed using React Native technology. Its aim is to assist students in calculating the points earned from various activities at the campus that will be used during certificate distribution. The points earned by students reflect their participation and performance in various activities held by the campus, such as seminars, competitions, or social activities. The application comes equipped with features such as managing student activity data, and activity category settings. The methodology used in the application development process was the waterfall method, which includes requirement analysis, design, implementation, testing, and maintenance.

During the requirement analysis phase, a survey and interviews were conducted with students to determine their needs for a points counter application. Based on the requirements analysis, the application was designed with a user-friendly interface that could assist students in calculating their earned points effectively. During the design phase, data flow diagrams and application flow diagrams were created to ease the development process. Implementation was carried out using React Native technology.

During the testing phase, functional and performance testing was conducted. The results of the tests indicated that the application ran smoothly and provided students with the ease of tracking their earned points. The application can be accessed on both Android and IOS mobile devices and is connected to the campus information system for obtaining information about student activities and grades. This application is expected to be beneficial to students in tracking their earned points and to motivate them to participate in various campus activities. Additionally, this application can also assist campus staff in managing student activity data and simplify the certificate distribution process.

Keyword : *mobile Android, IOS, certificate, React Native*