

ANDRIOD-BASED MOBILE ACADEMIC PORTAL APPLICATION

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Abstract—The academic portal application that the authors created, which is available on Android phones, is an open source operation system with Java platform that can be easily developed by anyone. This application is created for the students who use Android phones as information accessing media so that they can use this application to keep track of their academic progress and information. In addition, the lecturers can also input students' grade points and approve the study plan of the students who are under the same academic advising service directly from the apps. The academic information system used by Andalas University at the moment is in the form of website page. Due to the high interest in the development of mobile technology, the authors decided to create a mobile application as the client for this academic information system.

Keywords—Mobile technology, Android Application, Academic portal.

I. INTRODUCTION

The fast-paced development of cell phone technology has affected the entire world. Regardless of age and life experience, even ten years old teenagers and elderly people own cell phones. Almost everyone owns a cell phone, and for some people one cell phone might be

insufficient. This kind of development can be used for an advantage in education field.

Academic portal functions as the source of information related to students' course progress, such as students' coursework plan and grade points. Academic portal has become an important part as the information exchange media in a university system. The students can access the information through a website page. There is no other alternative for accessing the students' course result and for inputting the coursework plan. However, with the technological advancement of mobile phones that students widely use nowadays, there is a possibility of developing an alternative application for accessing academic information on Android phones. This alternative is expected to facilitate lecturers, students and other related parties who use Android phones in accessing academic related information through the portal.

The purpose of this research is to develop an Android-based mobile academic portal that will be used as an alternative in accessing academic related information effectively and efficiently. This academic information application that runs on an Android mobile is mostly similar with web version, and they both function as clients. The only difference is the means of data access. Data access on the website is done through an internet browser, while data access using an application can be done directly through a specifically developed application that is installed on the cell phone and is connected to the server. The data needed to generate information is from the same storage and the data is also processed by the same server.

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Figure 16. Coursework Plan Approval

IV. CONCLUSIONS AND FUTURE WORK

Based on the simulation, it can be concluded that the Android based academic portal mobile application could run on Android version 4.1.2. The students can log on to their accounts and type in their academic entry. Lecturers can also authorize students' grade point using the same Android version.

Further application development will include adding an online final project consultation on Android phones, comparing the operating system with higher Android operation system and testing the system with other vendors such as Blackberry and iOS.

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