Feasibility study of Mobile Application development in MARA University of Technology (Malaysia).

<https://ieeexplore-ieee-org.ezproxy.rit.edu/document/7042405>

The report aims at Technical Feasibility for providing an alternative to University Services through Web. Usually the University services offered through Web Application can be accessed through the Computer/Laptop. However, to increase the accessibility of these services the report discusses the feasibility of developing a Mobile Application. The Mobile Application service selected is to view “Examination Result” based on the survey from Students and Faculty.

**Analysis :**

The study focused on developing application for accessing services such as Student Portal from a hand-held mobile device. Currently there are three types of Mobile Applications Native, Web and Hybrid. The application chosen for this study was Hybrid application which are like Native applications but their information is stored in a remote server like a Web Application which limits its speed but has more scope in terms of targeting different operating systems(Android, ios etc). Other aspects taken under consideration were compatibility with the Operating system, mobile computing capacity, strength of Internet Connection etcetera. They conducted University wide survey to address these concerns and to learn user preferences which showed that Apple devices are more prevalent among users. The mobile application architecture selected was Rich-Client architecture and develop application through Agile approach.

**Opinion :**

The study specifically considered iOs as the primary operating system which will result in additional efforts to test the compatibility of the developed prototype on other Operating systems such as Android, Blackberry and Windows OS users. Also the study did not account for the number of users logging in simultaneously which will hamper “User experience”. Another shortfall of this study is that it only considers one feature (Exam Result) to be included in the application whereas a minimum of three or four features should have been included to make the development of prototype “cost and time efficient”. Although AGILE approach may be time efficient and help in early completion of the project it necessarily does not guarantee the “Project Success”. In conclusion this feasibility study misses several important aspects which may financially impact the “Project”.