Campus WI-FI Mobile Application

Mahesh Kumar

February 2012

Dissertation submitted in partial fulfilment for the degree of

Master of Science in Advanced Computing

Computing Science and Mathematics

University of Stirling

Abstract

This project is developed to enhance the communication system in the university environment between the university administration and students to provide a better information services through Wi-Fi Technology. This project is implemented using distributed network sharing system for students. The basic idea of creating campus information system via WI-FI Technology to make sure that student can access the information anywhere within the campus zone frequently.

This project presents a mobile application which is built using Mobile Information Device Profile (MIDP) of the Java 2 Platform Micro Edition (J2ME).The objective is to provide an interface where students can get the update/alert sent by the administrator on their mobile phone which would be beneficial for students they only need a PDA or a java enabled mobile phone.

The intellectual growth is not possible without a modern technology being used. But the discrepancy exists between the types of technology used on campus and the technology that can be used to facilitate learning experience. Utilizing campus applications technology is a great prospective and would be useful in campus environment. The mobile device frees the user from the physical size of laptops and desktops. The mobile application platform provides users with wireless and mobile access to any business information system easily and securely.

The project was design using the well known open source technologies MYSQL and JSP, SERVLET and J2ME.

Attestation

I understand the nature of plagiarism, and I am aware of the University's policy on this.

I certify that this dissertation reports original work by me during my University project except for the following:

Few element of implementation part is taken from [9].

Signature *Mahesh Kumar* **Date 03/02/12**