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Mobile Application for Karpagam Tech Information

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Abstract: The Android based College Information System is used to provide facility to students with information right from pillars of the organization to courses, admission, academics, placements, events, sports, facilities, contacts and links. This information is delivered to the students in a cost effective way and also provides a hype to the organization. This application is not only useful for the students graduating in our college but also for those who are willing to join our organization. It supports cross platform and hence it is applicable to any mobile operating system. This application makes life more comfortable because students need not queue up near notice board/log on to college website for any of the above mentioned details. Student can anywhere gain the information easily and quickly. Any latest news or notification about the organization can be updated so that the users become aware of the happenings in a single touch.

Keywords: courses, admission, academics, placements, events, sports, facilities, contacts

INTRODUCTION

In the world of advancing technology, mobile applications are a rapidly growing software of the international mobile market. Mobile applications are evolving in a wide range to give users a rich and fast user experience. In this paper a mobile application for college information system is developed which contains the details of all the domains in Karpagam Institute of Technology. In the real world scenario, college campus information in the form of notices, circulars, oral instruction is spread among the students. Today it is imperative to not only use the traditional forms of communication but also advanced forms in mobile technology for quicker and easier communication among the students. We present a vibrant approach to share information and highlighting features through an android application among students in order to enhance quality of information globally. The idea is that the user can find and access all information that is exactly relevant to what he is looking for. All he needs is a smart phone which enables the execution of the android application. Android is a reliable software development tool issued by Google in order to provide developers with a comprehensive set of tools for building android applications. The additional feature of our developed application is that all kinds of smart phone users can download it.

Problem Statement

The problem is to provide the complete information about the college campus in which the college faculty members, students and any other application users must be able to access the information and become familiar with the college details [1]. It should provide an overall view of the college information as well as its updations.

The collected information should be segregated and allocated in its appropriate domain. The application that is developed must be User friendly and the details must be presented in a vivid manner.

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During the development information should be stored in the database without any complications i.e., insertion and updation anomalies [2].

Proposed System

In our proposed system, we describe a mobile application for entire campus information among students. The concept of developing campus information ensures that student can access information at any time, at any locations which is of interest and relevant to what they look for [3].

- A. Latest News/Notification: Alerts are to be send to all the users of the application
- B. Fest Information: Student can view details of schedules for various events. This will help students keep better track of extracurricular activities and events [2].
- C. Check results: Students can check and view their academic results.

Implementation

This application is developed in Java Script by using the Integrated Development Environment (IDE) [5]. The Kony Visualizer Studio kit includes a variety of custom tools thereby helping us to develop a mobile application not only on the Android platform but also on any operating system (i.e supports cross platform).

Basic block diagram

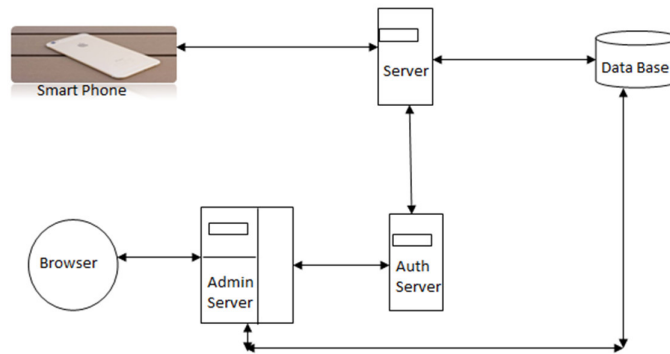


Figure 4.1 Basic Block Diagram

Data Flow Diagram

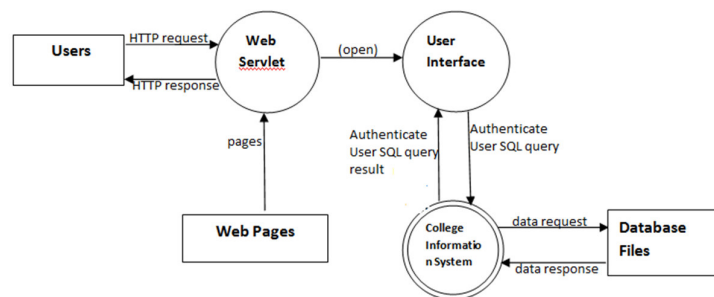


Figure 4.2 Data Flow Diagram

The requirement for College Information system is collected and decided on what objects and functionalities should be included. These functionalities include User Interface, Database design, Database connectivity, Administrator authorization and deployment of the application [4].

In the initial stage every minute details about the organization is collected and different user interface for the application have been developed. The data are stored in the database using SQL queries which act as a back end for the application. Each table name refers to

its corresponding domain. The data is mapped into its appropriate domain. The GUI for the users is designed using JavaScript which serves as the front end. The GUI and the Database are linked using Java Data Base Connectivity [1].

Once the application is developed, the updations are done by the administrators. They are provided with a login page for updating notifications and latest news in order to prevent the access of unauthorized users [3].

Modules

The following are the modules in our application:

- Information View module
- Administrator Access module
- Notification/ Latest News Updations module

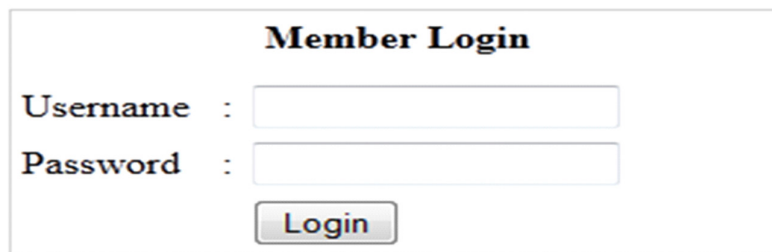
Module Design

1. Information View Module

This module contains the overall information about the organization where each domain is stored as a table in the database. The table name is the domain name and queries can be used to access the appropriate table. Any images, pictures or charts related to the information can also be inserted in UI so that users can view them with better understanding [2]. The users can also directly view their expected domain and its related information updates.

2. Administrator Access Module

In this module the administrator is provided with a login page so that the information is secured without any changes made by the unauthorized access. Once the administrator enters the server he can update the latest news or any other additional information in its corresponding table by using the INSERT queries [5].



3. Notification/ Latest News Module

When the administrator updates the information in the database using the server it automatically invokes the push operation which shows the notification to the smart phone application users. This reduces the human efforts of surfing the website to obtain recent updations [2].

Conclusion

Thus the developed application will be definitely useful not only for students graduating in the organization but also those who prefer to join the institution. It gives a clear cut view of all the domains with its highlighting features which motivates students to join the organization. Hence this application plays a major role in the promotion of the organization.

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