Chat Bot Based Student Information System

Balajothi M[1], Kaviyarasi P[2], Gowsalya M[3], Priyanka L P[4]

[1, 2, 3, 4] Dept of Computer Science

[1, 2, 3, 4] CMS College of Engineering and Technology, Velanthavalam,Coimbatore-32.

Abstract- The mission of the Student Information Management system is to create an integrated information technology environment for students . Our goal is to focus on services and integration for end users . It is a Android based self service environment for students , prospective students , and employees ; an administrative transaction processing environment for yearly admissions ; an informative environment for all levels of faculty and staff to do reporting , data extraction and information analysis. It is mainly useful for educational establishments to manage student data which also facilitates all individual associated information for easier navigation on daily basis.

It provides capabilities for entering student test and other assessment scores , building student schedules , tracking student attendance and managing many other student - related data needs in a college . Our easy -to -use , integrated college administration application would be used to reduce time spent on administrative tasks, as to concentrate on other skillful practical activities other than book worming.

Keywords- Android OS, database, mobile.

I. INTRODUCTION

Mobile information systems are extending the possibilities for when and where to perform learning for different communities. In this paper we particularly address students. Mobile computing is also changing the way of communication between teachers and students and can be used effectively to improve instructional quality. Campus Information System for students is defined as An interrelated group of information resources, accessible by computer through the campus institutional external and internal web environment, that a university places at the disposal of its users to enable them to consult it and/or provide a selection of significant and relevant data, in the wide context of their university life in its academic, administrative and social senses, in order to improve student's knowledge base. This study describes a system called mobile student information system (MSIS) based on mobile computing and context-aware application concepts, which purpose is to provide more user-centric information services to students. Different services are proposed in this system combining location-aware and context-sensitive information services for the students at the university. Feedback gathered from the students through a survey based on usage of early versions of the system has been guiding the directions and design of the current solution.

II. MODULES

A. REGISTRATION MODULE

This module will help the student get registered in the system .This module will really simplify the task of on paper registration. Also after successful registration the user can update information and change their password as and when required. Every student can register in this system using his roll number and registration number.

B. LOGIN MODULE

Login module will help in authentication of user accounts.Users that have valid login id and password can only login into their respective accounts. The system can make the credentials for the students data.

C. NEWS MODULE

The news module is using the student or seniors can upload the interview details, Special course details and job related information in to the system. Every authenticated student and users can view all the news, each news has a unique id.

D. CREATE COMMUNICATION MODULE

This module is used to the users communicate with other student or users .once the user is communicate other user , send the request to the particular student . Then the student was accepting the user request after the system will create the communication.

E. CHATTING MODULE

This module used to chat the student in this system using Registered id . Online chat may refer to any kind of communication over the system that offers a real -time transmission of text messages from user to use
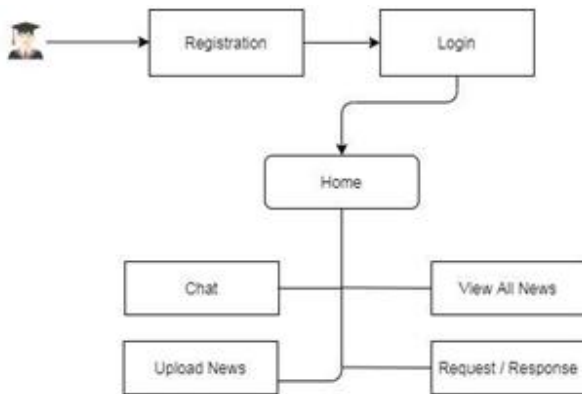
III. DATA BASE FOR ANDROID APPLICATION

Android facilitates a user to keep data constantly. For example, a user wants that the login id and password for an application have to be accumulated constantly in order that when he/she wants to login, the recommendation must not be needed another time. Android provides various data storage options like shared preference, internal storage, external storage, Mysql database and network connection (web). We are concerned with the Mysql database. Android allows us to store the data in Mysql database in structured format. The data of an Android application can also be stored on the web through the network server.

The first would show us how to connect the web application to a database and the other would show us how to use database in android. The expected result was to find a method which can be used to connect both the application to a common database. So now we changed the search - How to connect android to online database (since the web application is already online we dint use that to search) -. This search gave us the techniques to connect android to the network and use different API's to fetch online data. There was very less information on creating a custom web service that will provide the connection between the online database and android.

A.WHAT IS Mysql?

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.

B. USING DATABASE IN ANDROID

A database is a separate application that stores a collection of data. Each database has one or more distinct APIs for creating, accessing, managing, searching and replicating the data it holds.

Other kinds of data stores can also be used, such as files on the file system or large hash tables in memory but data fetching and writing would not be so fast and easy with those type of systems.

Nowadays, we use relational database management systems (RDBMS) to store and manage huge volume of data. This is called relational database because all the data is stored into different tables and relations are established using primary keys or other keys known as **Foreign Keys**.

A **Relational Data Base Management System (RDBMS)** is a software that –

- Enables you to implement a database with tables, columns and indexes.
- Guarantees the Referential Integrity between rows of various tables.
- Updates the indexes automatically.
- Interprets an SQL query and combines information from various tables.

IV. ANDROID

A free, open source mobile platform. A Linux-based, multiprocessing, Multithreaded OS. Android is not a device or a product It's not even limited to phones You could build a DVR, a handheld GPS, an MP3 player, etc.

Android is a software stack for mobile devices that includes an operating system, middleware and key applications.

The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language.

- Makes mobile development easy.
- Full phone software stack including applications
- Designed as a platform for software development
- Android is open
- Android is free
- Community support

V. CONCLUSION

As for the conclusion, the objectives for this project were achieved and functioned well as the desired target. This system will help the Student Information System database works systematically and will make ease the user in order to manage all the student data in the system. This system will give a better performance in arranging the lecturer and student information without having to do it manually. This system will help faculty's staff to arrange student matter and schedule faster and easier. Furthermore it will allow the lecturer to focus on other important task in the Faculty. As the future recommendation, the project is recommended to be built with the fully functional software that fulfills all the criteria needed and also applied with more complicated algorithm to the system.

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