Getting day to day updates using an Android App

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Abstract— Tirumala Education is an App which provides much better mobility than PC's. Technology is moving towards mobiles which has wide spread usage and acceptability. Lot of protocols and software's has been developed by Android. This is the time the result on the finance industry will be led a new weapon i.e., Android phone. We are connecting the mobile to educational database using latest technologies. It provides a wide range of information about education, jobs results for individual user nothing but college students. It also includes sending notifications, Attendance, viewing academic details like exam results, job notifications put forwarded by different companies.

Keywords — Attendance, Placements, Exam results, Enquiry and Notifications.

I. INTRODUCTION

Tirumala education is an android application that cans benefits to the user that he or she can get the day to day updates like academic details, exam results, Placements and notifications. Using an Android, it is an operating platform for mobile devices such as smart phones and tablet computers [5]. The Android platform is a software stack for mobile devices including an operating system, middle ware and key applications. Developers can create applications for the platform using the android SDK [1],[7]. Applications are written using the java programming language and run on Linux kernel.

II. BASIC IDEA

This paper provides a comprehensive architectural overview of the Tirumala Education which is being developed to assist educational and job oriented services to the users [6],[7]. The Tirumala APP provides an Application frame work which use and replace the components. It also uses Dalvik virtual machine for mobile devices.GSM technology, SQLite for structured data storage [2]. There are more no of applications of mobile apps over web applications. Mobile apps can have the compatibility, share ability, immediacy features in effective manner. Cost was very low and less Time taken.

III. IMPLEMENTATION

Using an android app one can easily know the various updates from the college. There are no mobility problems and no user difficulty in mobile deployment. It is similar to pocket information to the users[3],[5]. This Android app include a set of core libraries the provides most of the functionality available in the core libraries of the Java programming language. Every Android application runs in its own process, with its own instance of Dalvik virtual machine. The Dalvik Virtual machine executes files in the Dalvik Executable (.dex) format which is optimized for minimal memory footprint[4],[5],[6]. The Virtual Machine is registered-based and runs all classes using Java language compiler which include "dx" tool.The Dalvik Virtual Machine relies on the LINUX Kernel for underlying functionality such as threading and low level memory management [5], [6].

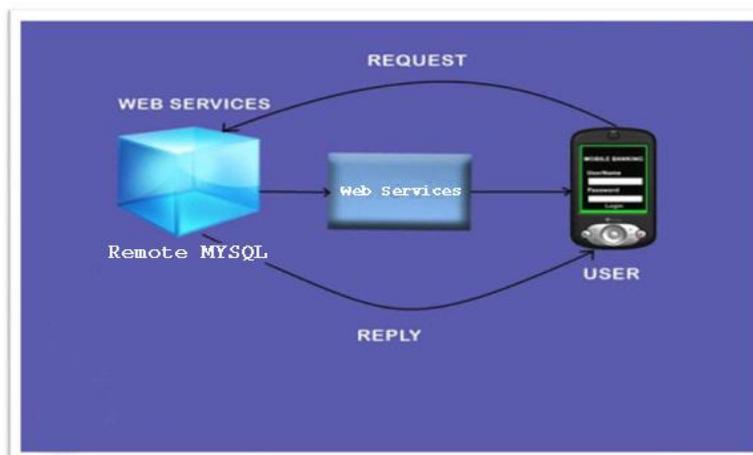Consider the architecture of the entire system of Tirumala app

Fig.1 System Architecture

MySQL is a relational database management system (RDBMS), and ships with no GUI tools to administer. MySQL databases or manage data contained within the databases. Users may use the included command line tools, or use MySQL "front-ends", desktop software and web applications that create and manage MySQL databases, build database structures, back up data, inspect status, and work with data records [6],[8]. The official set of MySQL front-end tools, MySQL Workbench is actively developed by Oracle, and is freely available for use.
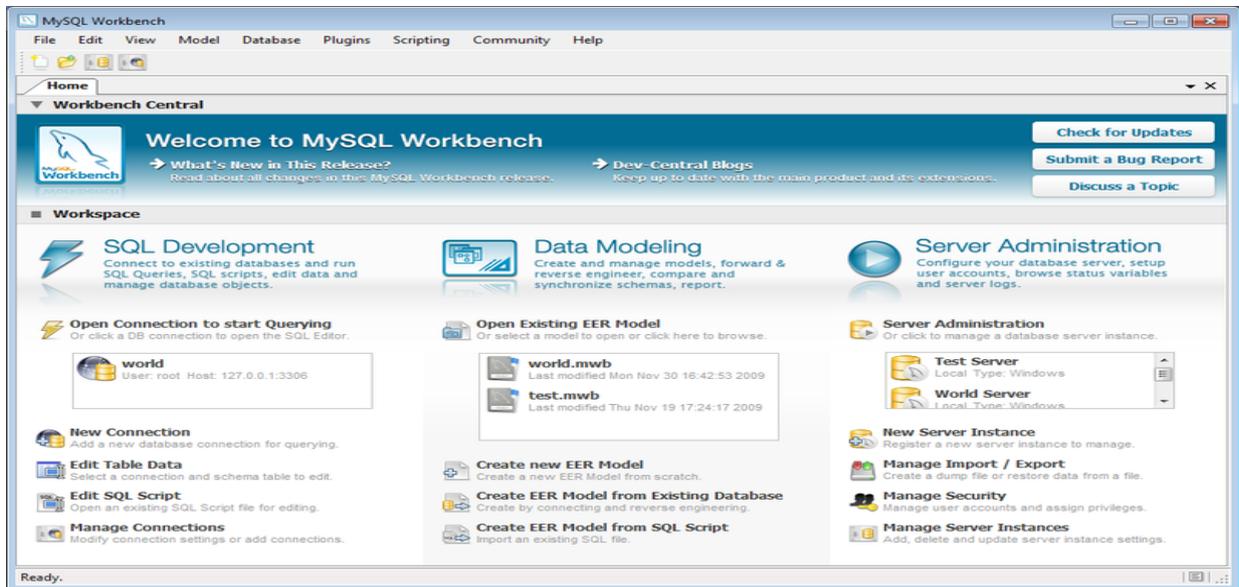

Fig.2   Establishing   MySQL server connection to mobiles using web services.

MySQL is written in C and C++ languages. Its SQL parser is written in Yacc and a home –brewed lexical analyser. Many programming languages with language specific APIs include libraries for accessing MySQL databases [5]. These include MySQL Connector /net for integration with Microsoft Visual studio and the JDBC driver for Java. In addition, an ODBC interface called MyODBC allows additional programming languages that support the ODBC interface to communicate with a MySQL data base, such as ASP[5],[8].

Database Tables:

User id	User name	User password	User email	User mobile
1111	Sajana.T	Android	Sajana_cse267@yahoo.com	9542509790
2222	Revathi.K	mobile password	Revathi29.krosuri@gmail.com	9581769543

Fig.3 User registration

Id	gcm_regdid id	Name	email
1111	SSN-5536012	Sajana.T	Sajana_cse267@yahoo.com

Fig.4 GCM_users

IV.   TEST CASES

Test no	Input	Expected output	Observed behaviour	Status pass or failed
1	Register as user with correct details	Home page displayed	-do-	P
2	Enter registration with few valid details	Error message should be displayed	-do-	P
3	Add new entry for an user	Adding new record in data base	-do-	P
4	Delete entry	Deleting an entry form data base	-do-	P
5	Click on required module	Should open associated module	-do-	P

IV. RESULTS

After installing Tirumala app in mobiles we get the following sequence of result screen shots
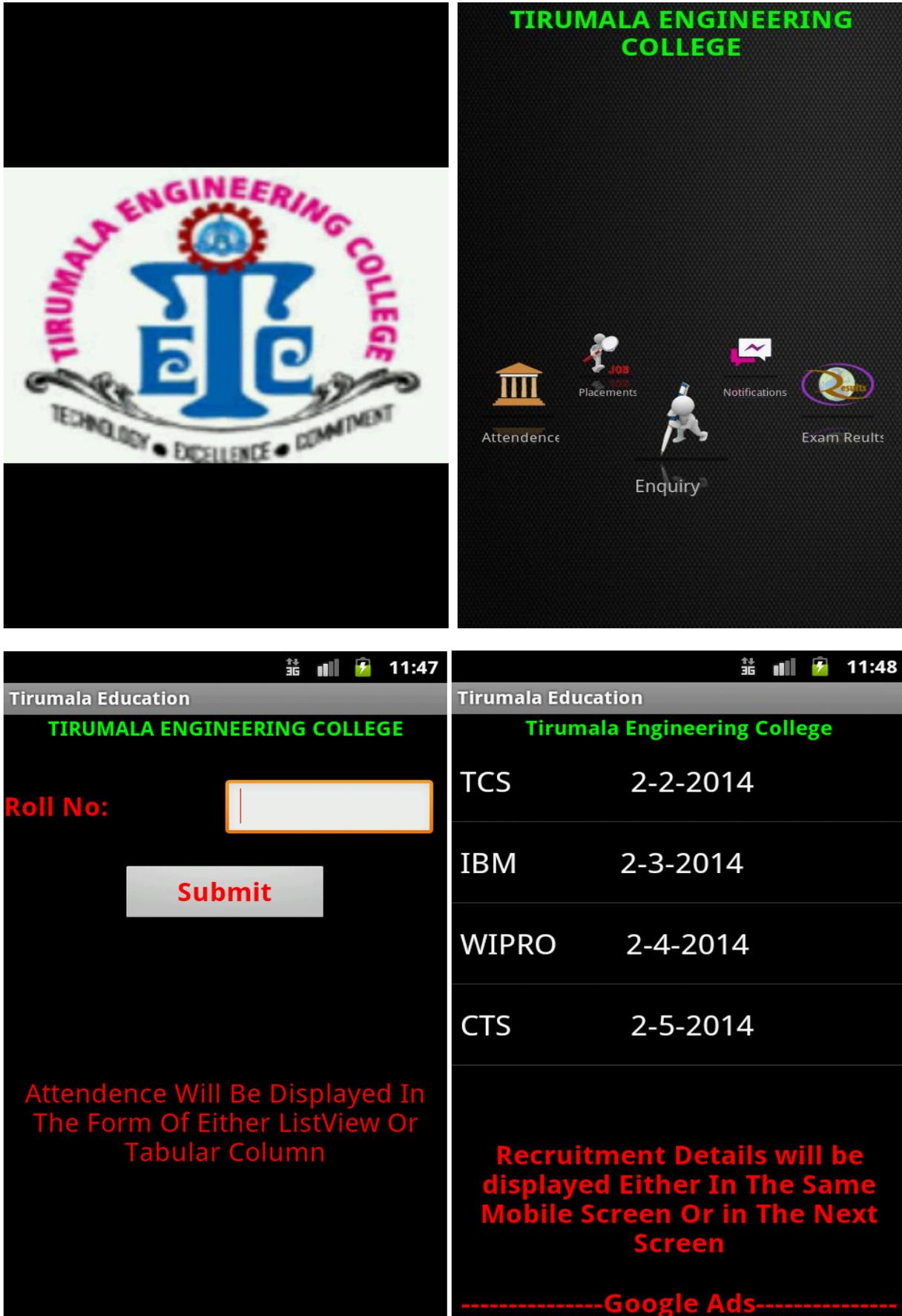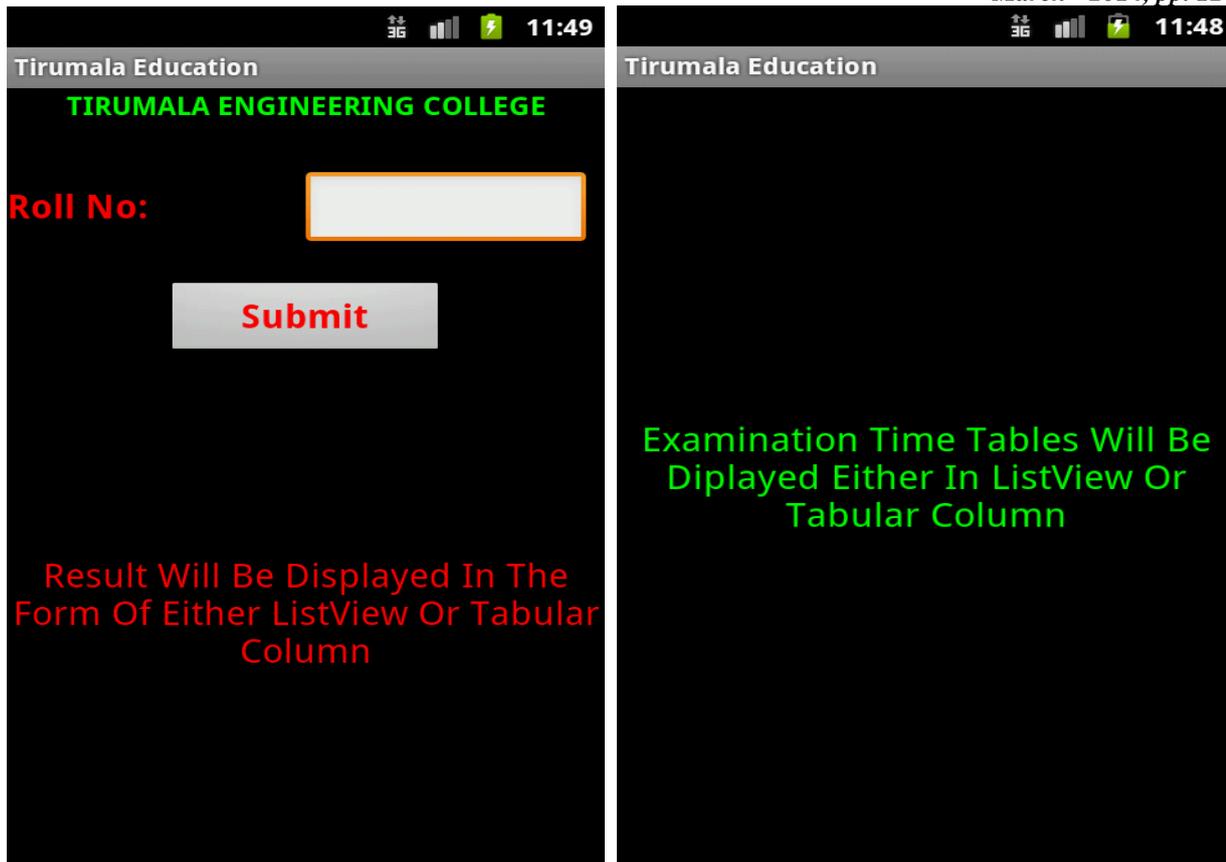
V. CONCLUSIONS

This paper has proposed an Android app which was very useful to the educational institutions. By installing this app in user mobiles like students they get day to day information regarding their academics, job, exam results, and notifications from the college. Security will be provided through authentication for each user and face book and Gmail integration will be made.

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