

An Android Application for Tuition Finder

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Abstract: Now a days these computers and internet are providing every information as a knowledge source. Even though everything is automated in the field of learning we prefer for traditional method. In this busy world searching of tutors for any subject is a very difficult job. In order to make it simple here with we proposed an idea to find a subject expert tutor through android application. The proposed work has the common platform where the teacher and the student can access on their respective available views. In this application students can register and view the availability of the subject expert based on the registered nearest location of the tutor. The locations are mapped based on the latitude and longitudinal of the students. Based on the students' selection the slot of days and tutor will be blocked for their special classes and then they will be intimated through notifications. This system will be helpful for students and the parents to find the tutor in the nearby location.

Keywords: *Android application, Tutor finder, location mapping*

1. Introduction

Android is a Linux based operating system for mobile devices that includes an operating system, middleware and key applications. It is based on the Linux Kernel and developed by Google and later the Open Handset Alliance (OHA). It allows writing managed code in Java language. Android is under version 2 of the Apache Software License (ASL). The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform. Android is a powerful Operating System supporting a large number of applications in Smart Phones. These applications make life more comfortable and advanced for the users. Hardware that support Android are mainly based on ARM architecture platform. The world is experiencing accelerated growth in Smartphone ownership. As Smartphones has become more familiar to people and finding use in the day to day lives, their influence on society continues to grow. In our project we have developed a Smartphone application for finding tutors for students.

2. Related Work

Dolly Panchal, Mili Sanghavi, ShikhaDevi Pandey and Elizabeth George[2016] Android application for finding

tutors using a data mining technique. The increasing trend of private or group tuitions has made it more difficult for a parent to find a perfect tutor for his/her child. The process of finding a tutor is time consuming. The rise in educational standards has led to the need for additional coaching along with basic schooling. An Android application for finding tutors can help a parent find tutors without consulting any third party. The application encourages parents to find tutors and tutors to find prospective students in their nearby vicinities. The tutor application also considers the fact that students need personal attention and guidance in studies[1].

Pankti Doshi, Pooja Jain, Abhishek Shakwala[2014] These classes of applications and services are termed as location based services. Location Based Service (LBS) is a kind of service that helps in getting the geographical location of the user and more useful information near to the user location. This location based information can be obtained in different terms such as position, vicinity, proximity, context, maps, routes, places etc. Our paper focuses on LBS in detail and identifies key components of LBS for providing this service to the user on the Android platform. It also explains the use and implementation of Google Maps and its APIs in getting various location based information on Android[3].

3. Proposed System

The main aim of the Tuition Finder Java Project is to complement the efforts of teachers to integrate technology and link the students to the Internet in educationally productive ways. It provides a friendly interactive environment. We have developed an Android application to help students to take extra classes. This application helps to schedule their tuition classes with

tutors. Therefore students can clear their doubts easily. Students can search for their tutors based on subject and location. Staff who are convenient can be found and the tuition timings can be scheduled. On getting a prompt message from the staff, the schedule of the tutor is made visible for the students. Students can view the schedule and book their appointment similar to cinema ticket booking.

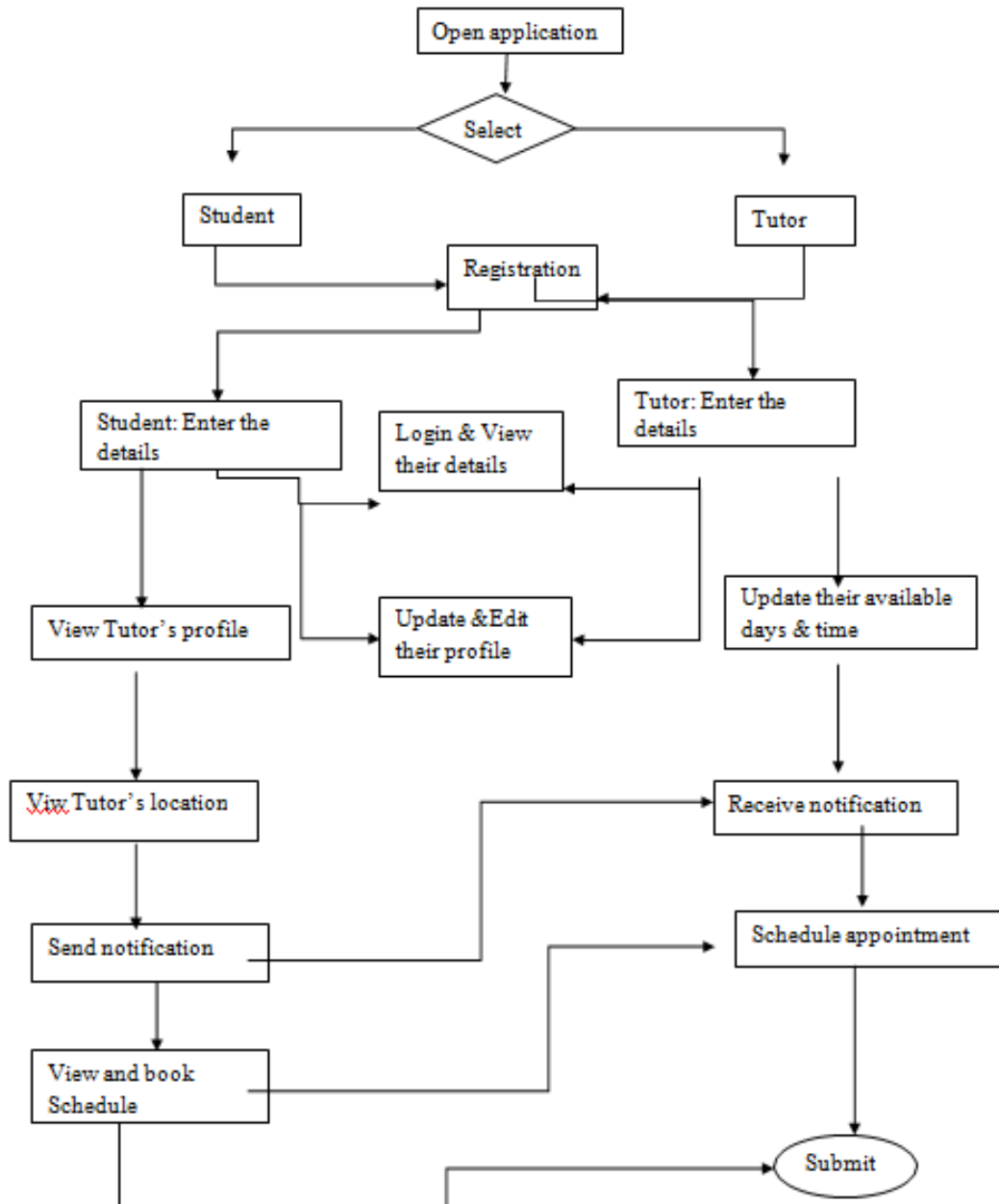


Fig 1. Architecture for proposed system

4. Module Description

Our proposed system includes the following modules :
(a) Registration, (b) Student Login, (c) Teachers Login, (d) Explore teachers details, (e) Schedule appointment, (f) Notification, (g) View tutor's location, (h) Suggestions for search.

Registration

The applicant have to register their details to start the application. In registration, the students should present all their details which is required for students profile and teachers have to give their details with their photo. The user id and password will be generated during registration. For students registration, they have to give their Name, Class, Address, Email id, contact no, Password. Shown in fig no: After signup, students can get login to their account. For teachers registration, they have to give their Profile Picture, Name, City, Full Address, Qualification, Subject, Email id, contact no, Experience, Fees, Their available days with time, Password. Only after entering all their details they can login to their account

Students login

To view the teachers details, students must login their account which they have created. The user id and password will be generated during registration, can be used to login to the application.

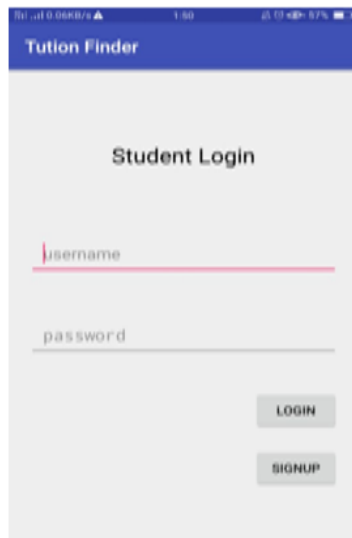


Fig 2. Student login

Teachers login

They have to register their details for login and they will update teachers profile and their schedule time. Also

teachers can view the no. of students scheduled for tuton classes.

Explore teacher details

Student will search for nearby available tutors based on subject they required. They can view notification details. The students can view all the details about the tutors.



Fig 3. Tutor's profile

Scheduling

The students will view the tutors scheduling dates and time and they will select their required dates. The notification will be send to the tutors.

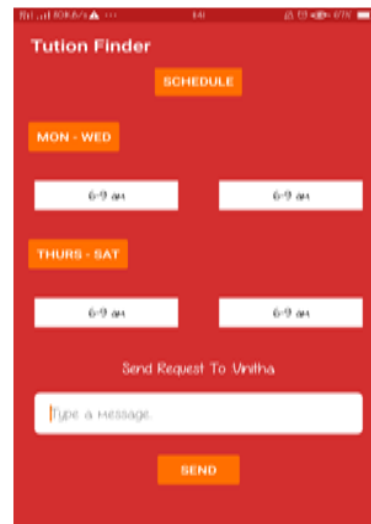


Fig 4. Schedule appointment

Notification

Students send request as a notification to the teachers. If the teachers are convenient with that time, they will send positive message to the students and the tuton classes will be scheduled, if the teachers are not convenient with timing, the notification will be send as "no" and the

students have to schedule with some other tutors.



Fig 5. Home page



Fig 8. Suggestions for search

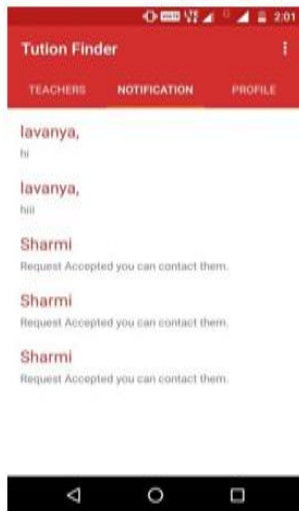


Fig 6. Notification

View Tutor's location

Tutor's location can be viewed in the google map.



Fig 7. View tutor's location

5. Conclusion

In this tutor finding android application students and the faculty and students can register. Based on the latitude and longitudinal mapping the tutor location is mapped to the student. The search of the subject expert is also filtered based on the location so that it will be easy for the finders to select the appropriate tutor. Based on the students selection the tutors will be made available for their special classes and then they will be intimated through notifications. This system provides an efficient search and gives effective result for the users.

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