

TRANSPORTATION ANDROID APPLICATION FOR PUNE CITY

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Abstract: *Android is growing rapidly and available for all the users or customers in today's market. A great extent increase in the end user acceptance has been experienced in the past few years. This project has been developed for the Bus, train, flights Information System in Pune. This paper intend an Android mobile application that gives information about buses, bus numbers as well as bus routes both online and offline. Android platform is an open source development which is probably the most feasible and a user friendly approach. This paper also deals with giving services like appropriate distance and fare between source and destination to user.*

Keywords: *Google API, SQLite, Google Android, Android SDK*

1. INTRODUCTION

Android is becoming very popular now days in market for two main reasons. First, source code is completely free and there are no royalty fees for Java Virtual Ma-chine. Second Android is highly suitable for expansion as the developer see fit. This paper presents an approach using Android SDK and Google API as to develop application for intelligent mobile devices. The core part of this paper is as follows. Bus schedule is an application of Android phones. This application uses SQLite, to store and retrieve data. With this application installed on your Smart phone, all you need to do is to start up your apps when you needed. User has to select the source and destination. This application will show you the bus timings with the accurate fare as per your source and destination. It also runs in the background so you are free to use your phone for the other activities like playing games, listening songs etc. This application also gives the users current position. And also includes the user's security.

1.1 Project scope

This is an android based application which will support on only android mobile devices. Actually this application will helps you by providing the timetable about bus, train, flights with an appropriate fare.

1.2 Platform Requirements

The platform used must be Android only because other operating system won't support this application[3]. The phone should not lag each time any route or bus number has been requested for. All the bus numbers must be stored in the database and retrieved whenever asked for. The bus timings must match the real time bus arrival. The application must have information about all the routes in Pune. The application must be user friendly enough for the user to understand it and operate it.

2. RELATED WORK

While deciding the features of transport application. We investigated similar applications

A.m-indicator

This mobile application provides local train timings, Best bus information to travelers. Drawbacks of this application are not showing fare and intermediate bus stop [3].

B.Bangalore city

There is lots of application that gives bus route but this application gives time of buses. It has roots and timing and most of BMTC buses [5].

C.Hyderabad city guide

This application finds out information by bus number, route information for particular bus; show the places near by the bus [5].

3. SYSTEM / APPLICATION ARCHITECTURE

This system acts as a bus timing consultant in which user is provided with required bus timings according to his need for a specific source. For the above system to provide the user with accurate results a proper input from the user is essential that is to get the proper timings of bus schedules user should provide proper input of his required source. Along with this he can also get the fare of the required route which he wishes to travel. To provide the system with the entire above functionality database is maintained in the mobile. This database consists of proper schedule (time table) of the buses available at various locations which helps in getting the accurate information as required by the user. In this whole architecture the mobile available with the user acts as a client who connects to the database is maintained and thus obtains the required accurate information.

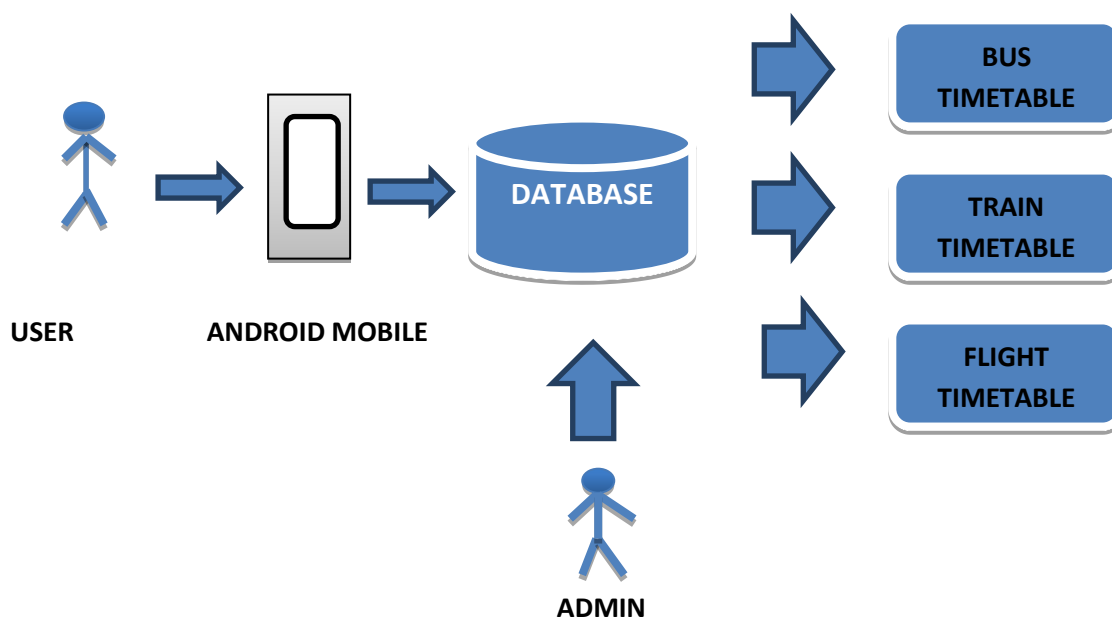


Fig.1 System architecture

1. USER
2. ANDROID MOBILE
3. DATABASE
4. ADMIN

1. USER

Here user interacts with the android mobile to obtain the required information like bus timetable, bus number, MSRTC timetable, local train timetable, and flight timings from Pune city.

2. ANDROID MOBILE

Android mobile is used to retrieve information from database about information like bus timetable, bus number, local train timetable, and MSBRTC timetable and flight timings from Pune city. Database process the request of user and provide the desired result to the user.

3. DATABASE

The SQLite database is used in Android for storing and managing application's data. The SQLite database is an open source lightweight transaction SQL database engine. There are other means of storing application data in Android rather than using a database (they are known as Preferences), but those are frequently used to store a very small amount of information, like usernames and passwords, so that users are not prompted for their credentials every time the application is started.

Database is used to store the information about like bus timetable, bus number, local train timetable, and MSBRTC timetable and flight timings from pune city. Also it processes the request of user and provides the data to the user using android mobile. SQLite is a opensource SQL database that stores data in text file on a device. Android comes in with built in SQLite database implementation.

We are going see how to make a very simple Android app (in our case, a transportation app) that will call a PHP script to perform basic CRUD (Create, Read, Update, Delete) operations. To brief you on the architecture, this is how it works. First your android app calls a PHP script in order to perform data operations.

4. ADMIN

Admin is used to update the database as per requirement an also updating the user interface of android mobile, admin interact with database and updates it. Admin also managing the database.

4. CONCLUSION & FUTURE SCOPE

Learning while developing was the main objective of our project. This project is real time application which deals with people and environment. Also this project has given great opportunity to learn different programming languages like android, java, PHP and SQLite. So overall these project provides the bus timetable with fares, local train and passenger trains schedules from pune city and MSBRTC buses schedules from pune city.

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