

Businfo:Bus Information System

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Abstract— Now a days there has been a great increase in the usage of smartphone. With the new applications being provided on smartphone for storing critical data such as bank passwords, email ids, photos, contacts etc. people are more relying on smartphone. While travelling to new places people depends on smartphone. This project proposes a model for Bus tracking with smart phone. It provides various functions such as nearby restaurants, hospitals, police station, one touch service for emergency tracking and reminder tool for the user etc.

Index Terms— GPS, Android plugins, Client-Server Technology

I. INTRODUCTION

With android taking the market, there has been great increase in the use of smart-phone. Vehicle tracking application using gps and gsm are available. But with the help of android, the desktop applications have been replaced in smartphone. The advantage of this is, that all these applications are available in portable device which users can carry everywhere. Hence people are more relying on smartphones. There are buses are available for travelling. But many passengers does not have complete information about buses. Complete information related to the bus numbers, bus timing, the routes of bus, time taken, maps, tracking the bus present location.

The proposed system is overcoming the problems that are face by the passenger. The system is an Android application that gives necessary information. This information overcomes the problems faced in the previously built application "Pune Bus Guide". The platform chosen for this kind of system is Android, reason being Android Operating System has come up on a very large scale and is owned by almost every second person. Also, Android is a user friendly platform, thereby enabling ease of access for all the users

II. RELATED WORK

The moment of bus system is affected by uncertain conditions unexpected delays, accidents. This paper focuses on the implementation of Real Time Passenger Information (RTPI) system, by installing GPS devices on city buses. This research will enable the tracking devices to obtain GPS data of the bus location which it will then transfer it to the centralized control unit. Bus is easy to locate then use of private vehicle can be reduced which reduces traffic and pollution.

III. PROPOSED SYSTEM

The proposed system is based on Android Operating system which will help the user to find the current location of the Bus. It will also remind the users to catch the bus on time through notification and automatic alarm ringing system. It will also help user to find nearby medicals and an emergency alert system. Users can also find the details of Bus routes they are travelling. Android is a Linux-based operating system designed primarily for touch screen mobile devices such as smart phones and tablet computers, developed by Google in conjunction with the Open Handset Alliance. Android was built from the ground-up to enable developers to create compelling mobile applications that take full advantage of all a handset has to offer. The system is specified on android operating system only because the market share of Android is high. Android also comes with an application development framework (ADF), which provides an API for application development and includes services for building GUI applications, data access, and other component types. The framework is designed to simplify the reuse and integration of components. Android apps are built using a mandatory XML manifest file. The manifest file values are bound to the application at compile time.

Advantages of Proposed system

- Integration of different services in to a single Android Application.
- Complete details of Bus with its location.
- Use of GPS for finding nearby medical stores.
- Emergency alert system in case of emergency.
- Medicine reminder for patients to take medicines on time.

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VARIOUS MODULES IN PROPOSED SYSTEM

A. Bus Information: - It will give the complete bus information ,timing and path .

A. Near by Hospitals: It will give user details about the medicals for example user can search about facilities provided by Medicals. And also lets user know about the nearby medicals using GPS.

B. Near by Police station:
It will give user details about the Nearby police station.

C. One touch service

In an emergency for e.g. accident, a person can use this facility to send messages to their relatives as well as ambulance centre by just pressing a single button. In the proposed and tested application the longitude, latitude information and the general idea of the place (BTS location area) of the current position of the mobile user is appended with the custom message that had been initially set in the application and is transmitted to the phone numbers registered

D.Reminder Service:

It provider the user about the bus . When to go and where to go.

Hardware and software requirements

Hardware Module:

- P IV processor and higher
- 512 MB and higher
- Fast Internet Connection
- Smart phone with Android OS
- Internet Connection for PC

Software Module:

- Windows Xp or higher
- Google map API.
- Android SDK tools.
- Android SDK platform tools.
- Android 3.2
- ADT-0.9.5

V.WORKING OF PROPOSED SYSTEM

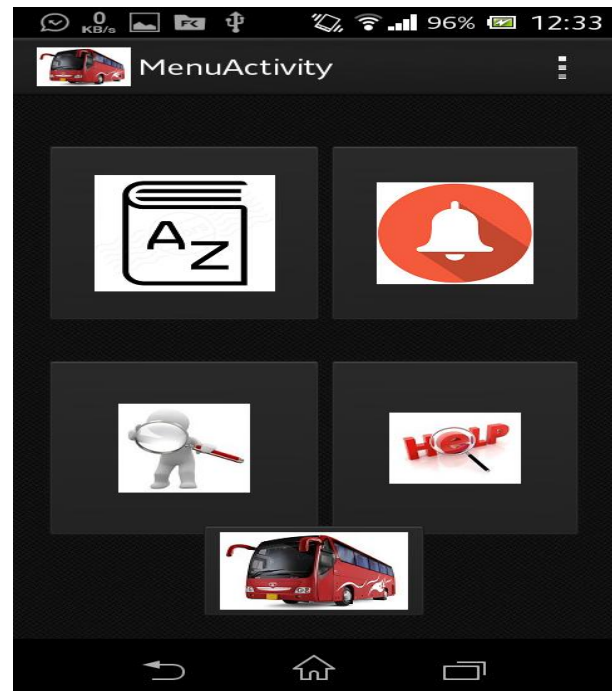


Fig.1:First Screen

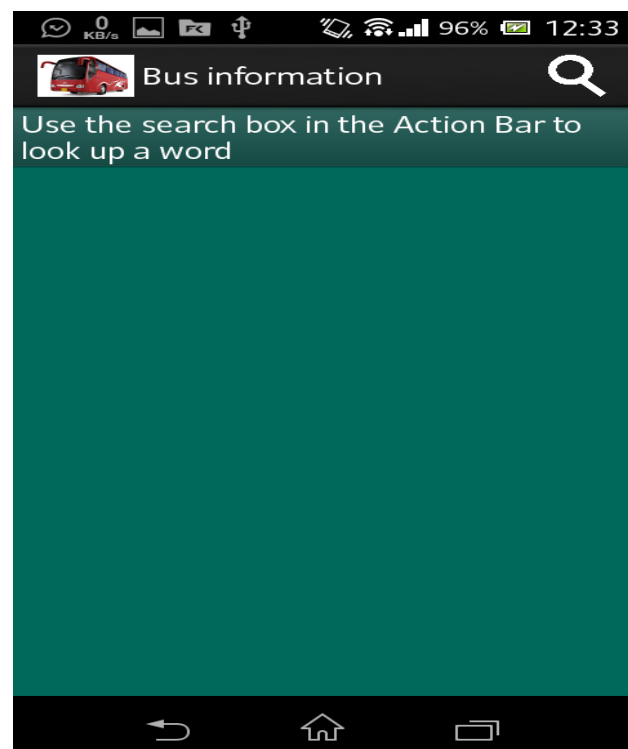


Fig.2:Searching bus info

IV. CONCLUSION

We have try to solve the problems of the common people travelling through our proposed system. We provide them with the facility of reminder,one touch services etc. We tried to make travelling easy and safe .

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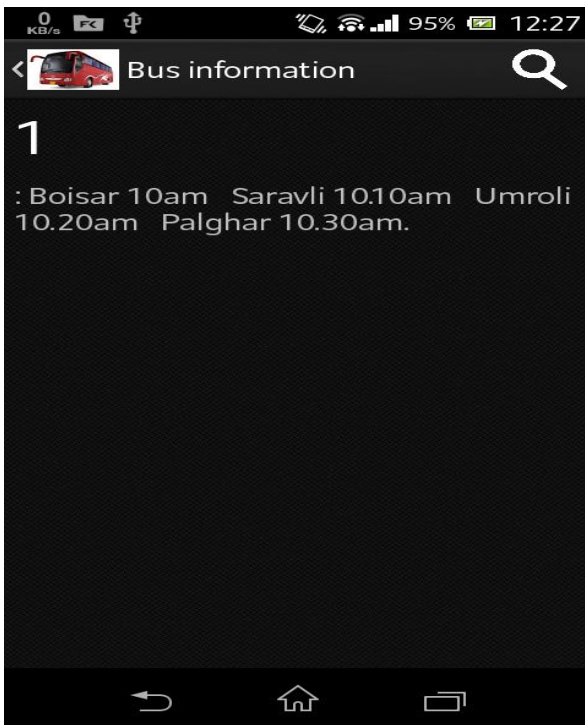


Fig.3: Bus information with route and timing

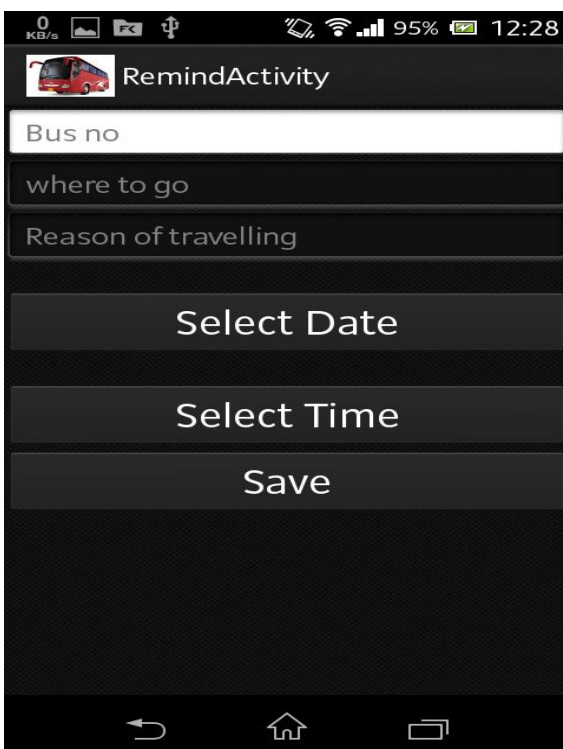


Fig.:4:Reminder service