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# A Survey on MHD - Indicator: The Public Transport Tracking System

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**ABSTRACT** : The idea to make something very useful for traveling has led to « MHD-Indicator :Public transport tracking system«. This application goal to solve problem face by passengers related to vehicle timing. Transport vehicle considered as buses. If passengers totally new in city then they will always find necessary vehicle timing, route, current location any other related information of the public transport etc. It is one of the best application to get all information in few clicks. The online passengers can see live location or status of vehicle and also receive notification related to cancellation or delay of public transport also online and offline users Passenger can see the schedule of public Transport. This application will show time required to reach to next station and distance between two station. This application will also show vehicle number, vehicle routes and their timing etc. it will also highlight main station with the help of google map to track location of Public transport. The application will use GPS of driver's or conductor's smart mobile phone. Dijkstra's shortest path algorithm (DSPA) is used to calculate Distance and time required to reach two pick-up points.

**KEYWORDS** – Google Map, GPS, Dijkstra's Shortest Path Algorithm (DSPA).

## I. INTRODUCTION

Android is the best Technology use now days. Our life becomes more reliable because of some application with their functional tactics. Now a days waiting for the vehicle is not reliable. People who totally depend upon the public transport their major problem is to know the exact time and location of the public transport. For which they are waiting for and the time it will take to reach their location. This information help passengers to making better travelling decision. This application help to passenger to find the nearest bus stop from their current location through their phones GPS. This application provides the passengers with the routes. Now a days most of people have smartphone so this application suitable for them. It is expected to be successful.

## II. LITERATURE SURVEY

GPS based public transport tracking system is an application that has its client side on the Android platform. Application is easy to install on device also free of cost. The system is effective where internet is accessible passenger install the application on android platform and select the information like vehicle number. If passenger clicks on Google map the current location of vehicle is display on the Google map<sup>[1]</sup>  
The main advantages of the system is that it neither require a GPS nor an internet connection. The passenger has to simply send SMS from his mobile phone in specified format to standard number. And the system would be in return sending the user with current location of the public transport, vacant seats expected arrival time etc.

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We are studying some deployed application which is design on android application. Which is design on android application. We reviewed the functionalities included in some of the existing system for public transport. MSRTC application is used for online bus reservation

M Indicator application is design for metro city like Mumbai, Pune. This application provides facilities of Train, Buses, and Cab Notification regarding delay Cancellation. It also Gives Information about Travelling expenses.

### III. SYSTEM ARCHITECTURE

As shown in *figure1*, the centralized server provides the data to both mobile application and administrative panel. administrator panel and mobile application will not interact with each other directly. both modules will have their different functionalities. administrator will manage schedule and can view registered user on admin panel. All the authorized notifications uploading task will be in hands of the admin. Administrator will also take care of database. The application will be an interface to the data. All registered users get all the updated notifications which are posted by administrator. It will have local memory for storing notifications and later with help of internet, application will get updated notifications from the server.

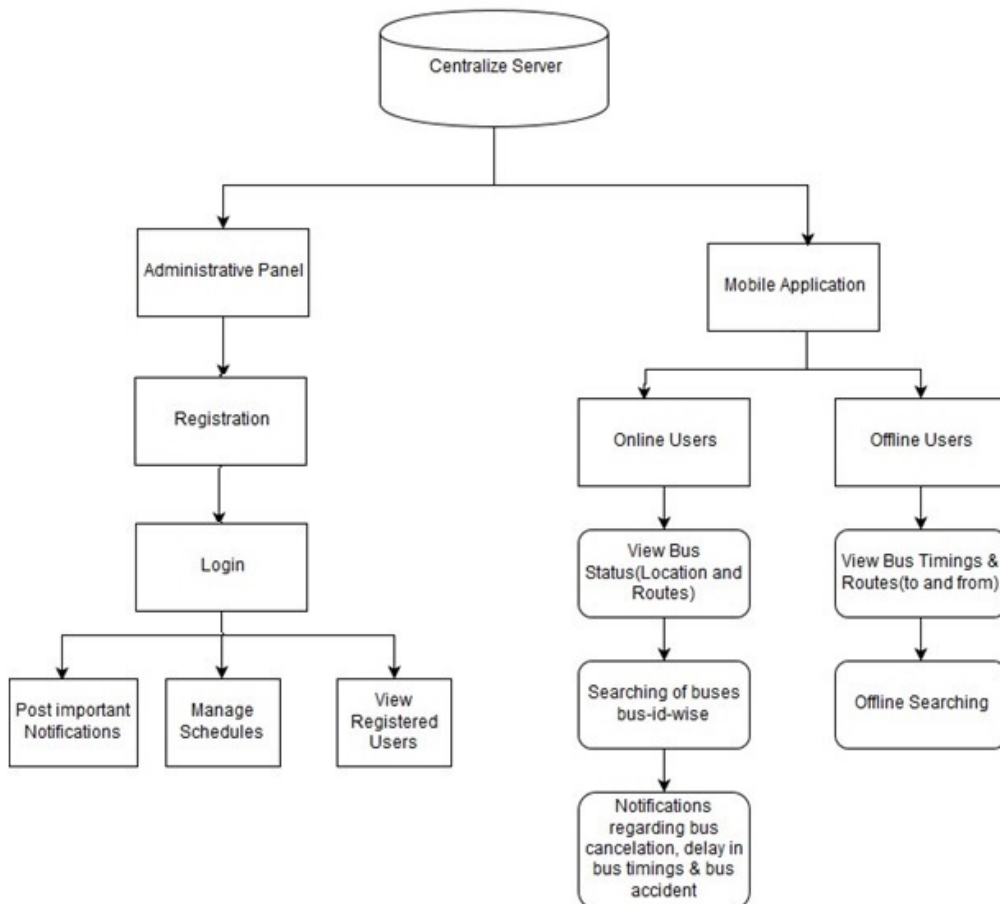


Fig 1: Block diagram of system Architecture

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## IV. CONCLUSION

it is concluded that the application will be useful for travelers/Passengers. Basically this application is for online and offline users, offline users able to see only bus schedule, routes and timing statically but online users can have all the functionalities of offline user as well as additional functionalities including viewing the current location of buses, notifications regarding bus cancellation or delay in bus timing etc.

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