



JP INFOTECH

SOFTWARE DEVELOPMENT & RESEARCH DIVISION

www.jpinfotech.org

(0)9952649690

Chennai Office : JP INFOTECH, Old No.31,
New No. 86, 1st Floor , 1st Avenue , Ashok
Pillar , Chennai - 83.

Landmark : Next to Kotak Mahendra Bank.

Pondicherry Office : JP INFOTECH , #45 ,
Kamaraj Salai, Thattanchavady, Puducherry
Landmark : Next to VVP Nagar Arch.

jpinfotechprojects@gmail.com

ibus: Chennai MTC bus info system

ABSTRACT:

Buses are the most widely used in transit technology today because bus networks are easily accessible and cheaper than other kinds of public transportation. Proper Schedule of bus service is a main issue in the reliability of bus operation. To achieve this, we developed a project called iBus for Android Smartphone. In fact, static structure and the real operation of bus scheduling have some difference with each other, due to some cases, such as traffic congestion and the accumulation of delays of buses missions. User can track any bus running in under Metropolitan Transport Corporation Ltd, Chennai. The bussed are tracked by their unique identified numbers called bus numbers, or giving the Stage covering by the bus.iBUS Chennai , the app works in a both dynamic ways online and offline.

EXISTING SYSTEM:

When travelling with buses, the travellers usually want to know the accurate arrival time of the bus. Excessively long waiting time at bus stops may drive away the anxious travellers and make them reluctant to take buses. Nowadays, most bus operating companies have been providing their timetables on the web freely



www.jpinfotech.org

(0)9952649690

Chennai Office : JP INFOTECH, Old No.31,
New No. 86, 1st Floor , 1st Avenue , Ashok
Pillar , Chennai - 83.

Landmark : Next to Kotak Mahendra Bank.

Pondicherry Office : JP INFOTECH , #45 ,
Kamaraj Salai, Thattanchavady, Puducherry
Landmark : Next to VVP Nagar Arch.

jpinfotechprojects@gmail.com

available for the travellers. The bus timetables, however, only provide very limited information (e.g., operating hours, time intervals, etc.), which are typically not timely updated. Other than those official timetables, many public services (e.g., Google Maps) are provided for travelers. Although such services offer useful information, they are far from satisfactory to the bus travelers

DISADVANTAGES OF EXISTING SYSTEM:

- 1) The schedule of a bus may be delayed due to many unpredictable factors (e.g., traffic conditions, harsh weather situation, etc)
- 2) However, usually requires the cooperation of the bus operating companies (e.g., installing special location tracking devices on the buses), and incurs substantial cost.

PROPOSED SYSTEM:

Application covers more than 1000 bus stops & more than 600 bus routes in Chennai. The application has 3 assist modes that can list travel options at a



JP INFOTECH

SOFTWARE DEVELOPMENT & RESEARCH DIVISION

www.jpinfotech.org

(0)9952649690

Chennai Office : JP INFOTECH, Old No.31,
New No. 86, 1st Floor , 1st Avenue , Ashok
Pillar , Chennai - 83.

Landmark : Next to Kotak Mahendra Bank.

Pondicherry Office : JP INFOTECH , #45 ,
Kamaraj Salai, Thattanchavady, Puducherry
Landmark : Next to VVP Nagar Arch.

jpinfotechprojects@gmail.com

particular location in the city. The major advantage in the application is user can view the bus route in the Google map at the same time user can switch both street view and satellite view. Bus stops can be exactly pointed in the Google Map. This application can act as best guide for both chennaiites and the newer to Chennai.

ADVANTAGES OF PROPOSED SYSTEM:

- ❖ The information are collected from MTC official website and regularly update the bus and stages information from the website, so details are more accurate compared to others.

- ❖ This application attempts to make travel in Chennai smarter & faster.

MODULES:

- Bus route search
- Stage Search
- From – to Search
- Map module



JP INFOTECH

SOFTWARE DEVELOPMENT & RESEARCH DIVISION

www.jpinfotech.org

(0)9952649690

Chennai Office : JP INFOTECH, Old No.31,
New No. 86, 1st Floor , 1st Avenue , Ashok
Pillar , Chennai - 83.

Landmark : Next to Kotak Mahendra Bank.

Pondicherry Office : JP INFOTECH , #45 ,
Kamaraj Salai, Thattanchavady, Puducherry
Landmark : Next to VVP Nagar Arch.

jpinfotechprojects@gmail.com

MODULES DESCRIPTION:

Bus route search

In Chennai there are many buses are running by the MTC (Metropolitan Transport Corporation), Chennai. The buses are names by their route. In a single route there are many buses are running periodically, but user can't correctly find the bus, and unable to memorize all the route names, so if they know the part of the bus route name then they can easily find the bus they want to travel, by typing the bus route part name, the list will be filtered by the text typed by the user with the bus routes available so the user can pick the bus they want.

Stage Search

As Bus route search the Stage search also works like this. User wants to go over any particular stage but the user don't know the exact name of the destination he want to go. So he can start typing the part of the stage name he want to go, and then the suggestion will be show automatically to the user then he can search the buses which are crossing the stage, then he can get that bus.



JP INFOTECH

SOFTWARE DEVELOPMENT & RESEARCH DIVISION

www.jpinfotech.org

(0)9952649690

Chennai Office : JP INFOTECH, Old No.31,
New No. 86, 1st Floor , 1st Avenue , Ashok
Pillar , Chennai - 83.

Landmark : Next to Kotak Mahendra Bank.

Pondicherry Office : JP INFOTECH , #45 ,
Kamaraj Salai, Thattanchavady, Puducherry
Landmark : Next to VVP Nagar Arch.

jpinfotechprojects@gmail.com

From – to Search

As many bus routes cover many stages, user can search the bus routes like source and destination. In this module user can search the bus routes by giving the source and destination he want to travel, then the application fetch the results of buses running between the source and destination stages. Then the user can chose any one of the bus and get into that bus to reach his destination. In this module the source and destination will be matched with the each stage of every bus route, if the Source and destination is matched in the stages covered by the bus route it will be added to the result.

Map module

The bus routes are listed to the user, if the user chose any one of the route the bus route will be shown to the Google map. In Google map each stage including source and destination of the particular bus route will be shown as a stage icon in the map and the connection between the stages are linked as a line. So the user can also track the complete path of a bus route in the Google map visually. The direction information is fetched in the Google map API web service freely available from Google. The result is a list of latitude and longitudes combinations.



JP INFOTECH

SOFTWARE DEVELOPMENT & RESEARCH DIVISION

www.jpinfotech.org

(0)9952649690

Chennai Office : JP INFOTECH, Old No.31,
New No. 86, 1st Floor , 1st Avenue , Ashok
Pillar , Chennai - 83.

Landmark : Next to Kotak Mahendra Bank.

Pondicherry Office : JP INFOTECH , #45 ,
Kamaraj Salai, Thattanchavady, Puducherry
Landmark : Next to VVP Nagar Arch.

jpinfotechprojects@gmail.com

And this application is fix the points in the map then draw a line to connect all the points.

SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Logitech.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

- Operating system : Windows XP.
- Coding Language : Java 1.6
- Tool Kit : Android 2.2
- IDE : Eclipse