

Local Transportation Ticketing System

Developer's Guide

Project/App

This whole project is based on a single idea, which is to book a seat on the travelling bus over the phone. In addition, you can reserve the bus for any gatherings or events, view recent bookings, and sort the reserved bus data using the recycler view data that comes from the database file. All of these features are included in this project. Before you can use the system, you will need to log in. After that, you may search for the bus based on the routes that you need it to go. You even have the ability to see the specifics of each item. The user interface for the complete project has a straightforward appearance.

In addition to that, a web-based administration system is included in the project. To enter the panel, the admin must first log into their account. In addition, the administrator is able to manage all of the bus data, timetables, reservations, and bookings from the dashboard, in addition to the area for modifying the schedule. The administrative interface is written in the PHP programming language.

About the Online Bus Ticketing System

The following are the methods that I used to construct this project:

- **Python**
- **Android Studio**
- **Django**
- **HTML**
- **CSS**
- **JavaScript**
- **jQuery**
- **Ajax**
- **Bootstrap v5**
- **Material Design Bootstrap Template**
- **Font-Awesome**

This Online Bus Ticketing System Project is only available to members of the general public. In addition to the Built-in Admin Site that is included with Django, the management also has its own Admin Site. From this site, the management users are able to view and control all of the system's data. Users with administrative privileges are able to manage the Bus Category, Bus, Location, and Trip Schedule List. Admin Users are the individuals who are accountable for monitoring and keeping the booking or reservation list up to date. The potential traveler need just explore the system to see what options are available. The passengers investigate the various journey itineraries offered by the organization. They

are also able to locate vacations departing on the date and to the location of their choosing that are still available. To book or reserve their seats, passengers need just fill out the blanks on the booking list.

Features

Management-Side

- **Login**
- **Home/Dashboard Page**
 - Displays the summary
- **Categories Management**
 - Add New Category
 - List All Categories
 - Update Category Details
 - Delete Category Details
- **Location Management**
 - Add New Location
 - List All Locations
 - Update Location Details
 - Delete Location Details
- **Bus Management**
 - Add New Bus
 - List All Buses
 - Update Bus Details
 - Delete Bus Details
- **Trip Schedules Management**
 - Add New Trip Schedule
 - List All Trip Schedules
 - Update Trip Schedule Details
 - Delete Trip Schedule Details
- **Bookings Management**
 - Add New Trip Booking
 - List All Trip Bookings

- Update Trip Booking Details
- Delete Trip Booking Details
- **Profile**
 - Update Profile Details
 - Update Account Password
- **Logout**

Public-Side

- Home Page
- Find Trip Schedules
- List All Upcoming Trip
- Book or Reserve a Seat to a Trip

How to run the project?

Installing Android Studio and a website with a local host based on Django, HTML, and CSS JavaScript, etc. is the first step in getting the project up and running. The project may then be imported from the main page of the studio. The first configuration of the project will start by itself. All of the Gradle build files will be installed automatically inside the directory that is the base of the project. Start the project, then configure the virtual device and begin using the emulator. The project will begin, and when it does, you will switch to the recycler view to examine the information contained in the MySQL file. You are need to complete the steps below in order to proceed with the database part as well: After Apache and MySQL have been started in XAMPP, proceed with the instructions that follow.

The Android studio, Django, and Python are used in the development of this project app, while PHP is used for the administration panel. In this case, the java programming language is utilised for the validation of the fields, and the XML programming language is used for the transmission of data. This project will continue to inquire for the latest plugin update in order to keep the internet connection active. Additionally, you will need to update the version of the SDK, and you will also need to update any instant run plugins that you are using.

It is necessary to extract the file.

Make a copy of the folder in the project's root directory.

Put the copied text in the xampp/htdocs/ directory.

Launch the internet browser of choice and go to the following URL: <http://localhost/phpmyadmin>

After that, choose the Databases option from the menu that appears.

First, a database with the name "bus ticket book" should be created. After that, the import tab should be selected.

Select the "bus ticket book.sql" file by selecting the "browse file" button and then clicking on it.

Simply click while you're on the go.

Following the completion of the Database Creation,

Launch the Android Studio project, and edit the base URL in the constant file so that it references the IP address instead. Now, in order to access the administrative control panel, go to the URL.

Setup/Installation of the softwares:

Follow the instructions in the links given below to install the software

Android Studio – <https://developer.android.com/studio/install>

Django – <https://docs.djangoproject.com/en/4.1/topics/install/>

Python – <https://www.python.org/downloads/>

Xampp – <https://www.apachefriends.org/download.html>

MySQL – <https://dev.mysql.com/downloads/installer/>

PIP - <https://phoenixnap.com/kb/install-pip-windows>

Bootstrap - <https://getbootstrap.com/docs/5.0/getting-started/download/>