Online Bus Reservation System

Introduction:

The main aim for developing this project is to make the online reservation in bus instead of the manual reservation. It manages all the information about bus, customers, seats, ticket, booking. It tracks all the details about the booking, drivers, routes, stops, etc.This will make the reservation system fast and user friendly.

Goals:

- Provide searching facilities about the bus.
- Up-to-date information of the system.
- Less time consuming as compared to manual work.
- Manage the information of the bus.
- Editing, updating and managing records.
- Manage the information of agent and customers.

Modules of Bus Reservation System:

The whole project is modularized as the following:

1. **User access module**
2. **Admin access module**

Functionalities of User Access Module

- User can manage his account, username, password, login ids, name, email etc.
- User can search for the buses of required source and destination.
- User can select the required bus from the list of buses.
- User can select the favorable seat.
- User can also select the boarding and dropping location if given.
- User can update the passenger information.
- User can do the payment from either wallet or card.
- User can also seek for help/ support/ any feedback.
- User can check his upcoming journeys.

Functionalities of Admin Access Module

- Admin can manage his account, username, password, login ids, name, email etc.
- Admin can manage employee details and employee list.
- Admin can search for the buses of required source and destination and also can manage minimum charge, type, depot, fare increment, bus number, and passenger's states(child/adult) are manipulated and stored.
- Admin can manage the routes for a particular bus so in the case of route management, the details about the route number, number of stops, fare stages and running time of the particular bus more over we want to manipulate and stored these information.
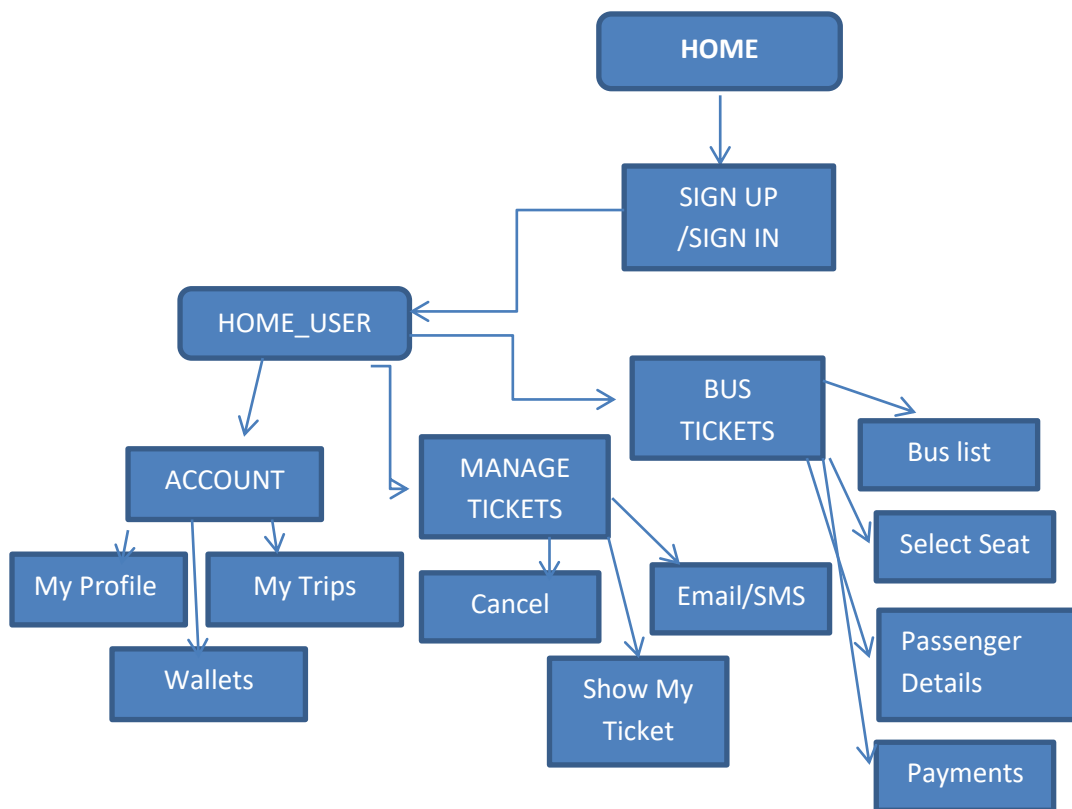
1. Admin access module includes:

- **Sign Up/Login Page -** It includes the login ids, username, password of the admin.

- **Profile Page –** It includes the details about the admin   .

- **Employee List Page**- This page includes the list of employees.

- **Employee Details Page-** Important details of every employee of bus.

- **Bus Management Page –**
  It includes the collection of buses, bus numbers, types of bus, list of buses, add /delete buses.

- **Seats Booking Page-**
  It includes the available seats, filled seats, booking time of the seats, type of seats.

- **Tickets Management Page -**
  It includes, booked tickets, cancelled tickets.

- **Route Management Page –** This includes information about managing the routes for a particular bus services so the details about the route number, number of stops, fare stages and running time of the particular bus more over we want to manipulate and stored these information.

- **Booking Page -** It includes details of the all the tickets booked.

- **Feedback Page –** It includes the feedbacks given by the users, so that admin can check and improve it.

2. User access module includes:

- **Sign Up/Login Page -** It includes the login ids, username, password of the user etc.

- **Profile Page –** It includes the details about the customer.

- **Bus List Page-** It includes list of different types of bus and selecting the required type of bus.

- **Seat Booking Page-** It includes selecting the seats, fare.

- **Payment Page-** It includes making the payment of the selected bus.

- **Print Ticket Page-**If user wants to get the print of the ticket he can get from this page.

- **Cancel Ticket Page-** User can cancel the ticket here.

- **Route List Page-** User can check the routes here.

- **Route Map Page-** User can see his current location in his journey.

- **Feedback Page-**Feedback section is provided for all the likes and dislikes about the journey if user wants to mention.

- **Help/Support Page-** If user finds any difficulty in booking, login or getting bus or anything else, he can contact to the customer support.

❖ **Home page will be same for both user and admin and after logging in one can be redirected to their respective modules.**

FLOWCHART:

Technologies to be used-

- HTML
- CSS
- Bootstrap
- JavaScript
- React