

# Case Study- Moveinsync- Design a Bus Booking System

- Tushar Sharma

## **Main Screen:**

Upon accessing the website, users are greeted with a user-friendly main screen featuring four distinct options:

- Book a Bus
- Search Bus Location
- Sign In/Register
- About Us



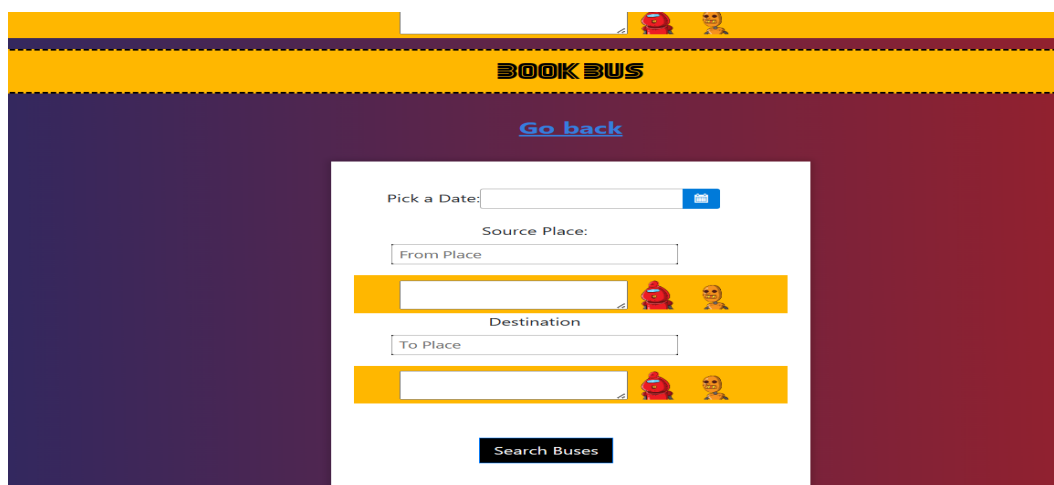
This intuitive layout ensures a seamless user experience, catering to various needs and inquiries.

Let's get to each of these functions one by one.

- Search Bus Location:

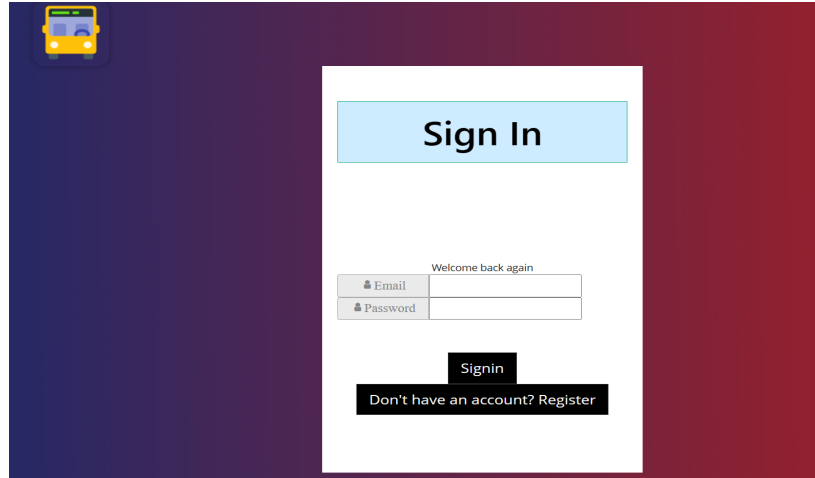
When users opt to check bus availability, they are presented with a straightforward interface.

Users can easily input their departure and destination locations. A dynamic feature notifies users of the bus availability, fostering efficiency in travel planning.



- Authentication Page:

Users encounter a secure authentication page differentiating between two user types: Admin and Non-Admin. This strategic division allows for specialized functionalities catering to the unique needs of each user category.

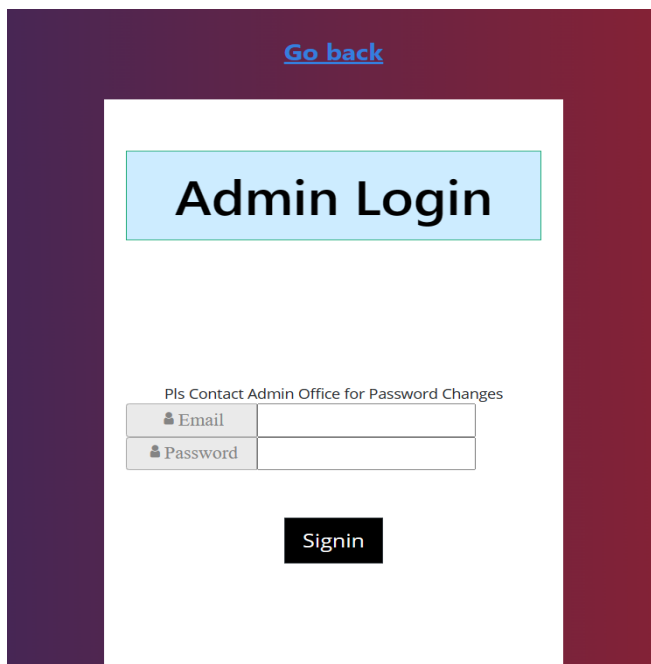


The image shows a 'Sign In' page for non-admin users. It features a yellow bus icon in the top left corner. The page has a dark blue and maroon background. A white box in the center contains the title 'Sign In' in a light blue box. Below the title, there is a 'Welcome back again' message. There are two input fields: 'Email' and 'Password', each with a user icon. Below the input fields, there is a 'Signin' button and a link that says 'Don't have an account? Register'.


- Admin Login:

- Administrators are empowered with capabilities such as:
- Adding new bus schedules
- Registering new buses
- Updating driver information
- Monitoring transaction logs

These elevated privileges streamline administrative tasks, ensuring effective management.





The image shows an 'Admin Login' page. It features a dark blue and maroon background. A white box in the center contains the title 'Admin Login' in a light blue box. Above the box, there is a 'Go back' link. Below the title, there is a message that says 'Pls Contact Admin Office for Password Changes'. There are two input fields: 'Email' and 'Password', each with a user icon. Below the input fields, there is a 'Signin' button.





[Go back](#)

## Enter Bus Details









### Add Bus Schedule

Route ID:

Driver ID:

Bus:

Enter Journey Start Time:  
12:00 AM

Enter Journey Fare:  
Fare

Estimated Travel Time(in hrs.):  
Estimated Travel Time

Reserved Seats:  
Reserved Seats

### Add New Bus

Enter Bus Regn No.:  
Select...  Bus Registration Number

Enter Agency Name:  
Agency Name:

Total Capacity:  
Total Capacity

AC Available(Yes/No)?  
☐ Yes ☐ No

### Add New Driver

Enter Driver Name:  
Driver Name

Enter Driver Age:  
AGE:

Enter Date of Joining:

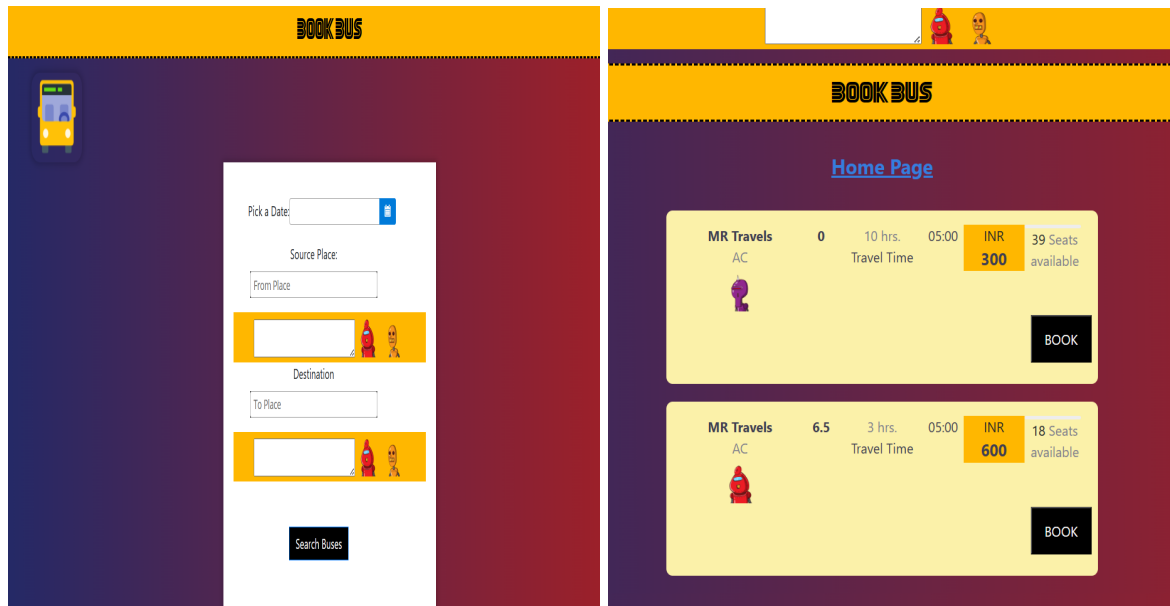
Enter Driver Phone no.  
Driver Phone

- Non-Admin User Side:

For general users, the journey begins with booking a bus. The system offers a user-friendly form to initiate the booking process

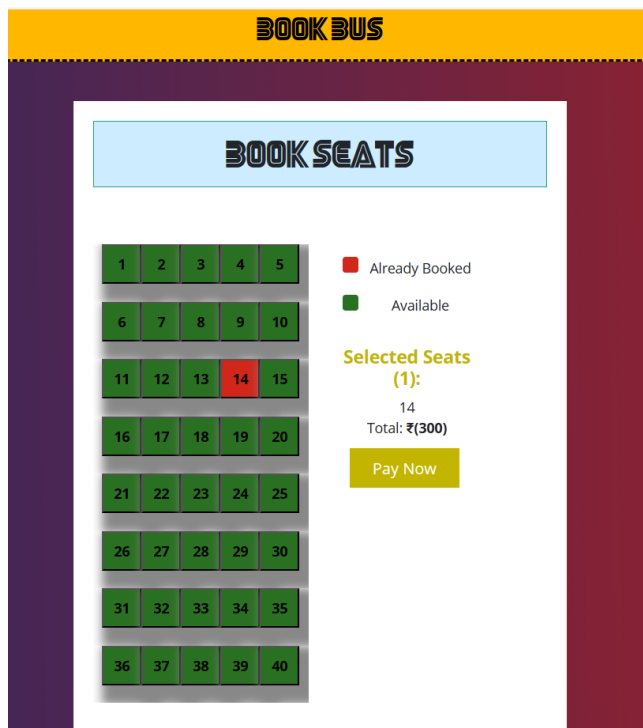
#### Browsing Buses:

Users can explore available buses, providing a range of options to suit their preferences.



### Seat Reservation:

A visually intuitive interface showcases available seats in green and booked seats in red. This enhances the user's ability to make informed decisions during the booking process.



### Payment and Confirmation:

The seamless payment process ensures a hassle-free booking experience, culminating in a confirmation that users can conveniently print for reference.

BOOK BUS

VISA

4091 4091 1250 ....

valid thru  
12/21

DBMS USER

Credit Card Number:409140911250

Name As on Card:DBMS USER

Expiry Date:1221

CVV NUMBER:

Confirm Booking

YOUR TICKET DETAILS

DATE OF TRAVEL:

BOOKED ON:Thu Dec 07 2023

SERVICE START POINT:Bangalore

SERVICE END POINT:Chennai

Booked Seats:14

Print this out!

In summary, this comprehensive bus management system, powered by MySQL for database management, Express Node.js for the backend, and React for the frontend, offers a user-centric experience. From efficient bus availability checks to secure and tailored authentication processes, the system is designed for ease of use. Administrators benefit from specialized privileges, while general users navigate a streamlined booking process, ultimately resulting in a satisfying and convenient travel solution.