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.
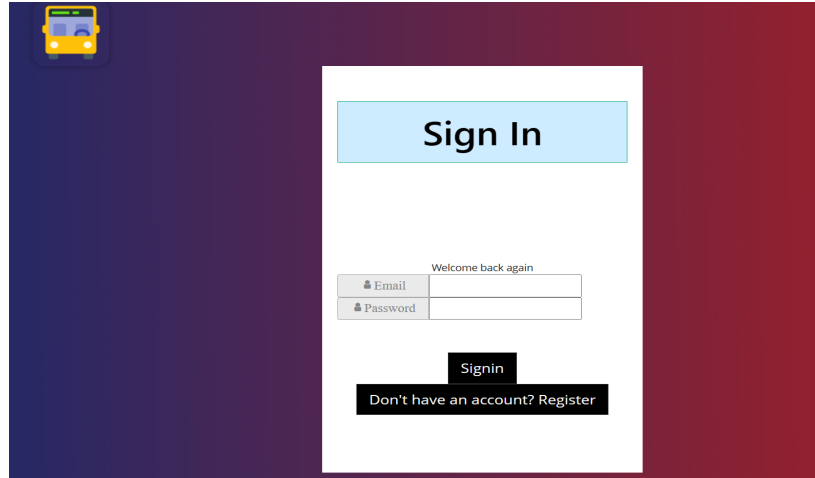
-   Search Bus Location:
    When users opt to check bus availability, they are presented with a straightforward interface. Users can easily input their departure and destination locations. A dynamic feature notifies users of the bus availability, fostering efficiency in travel planning.
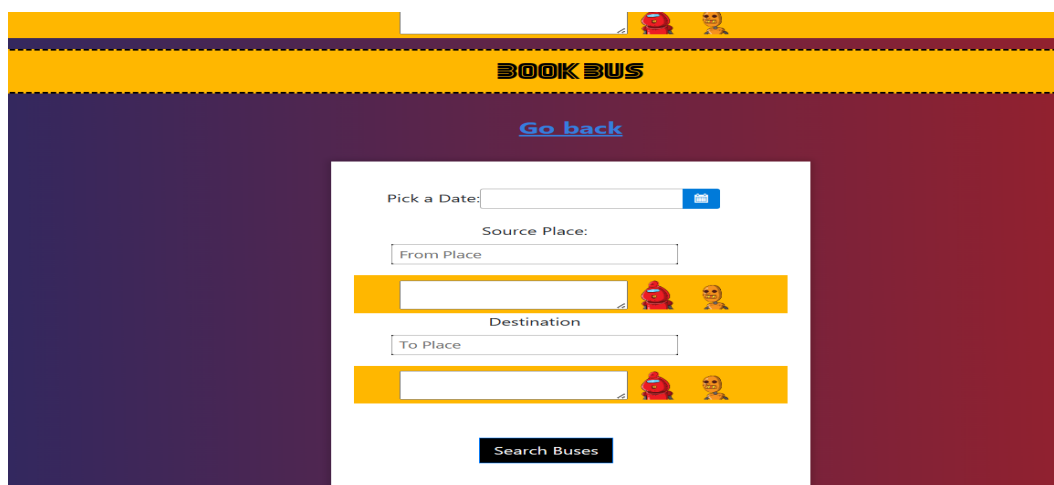
- Authentication Page:
  Users encounter a secure authentication page differentiating between two user types: Admin and Non-Admin. This strategic division allows for specialized functionalities catering to the unique needs of each user category.
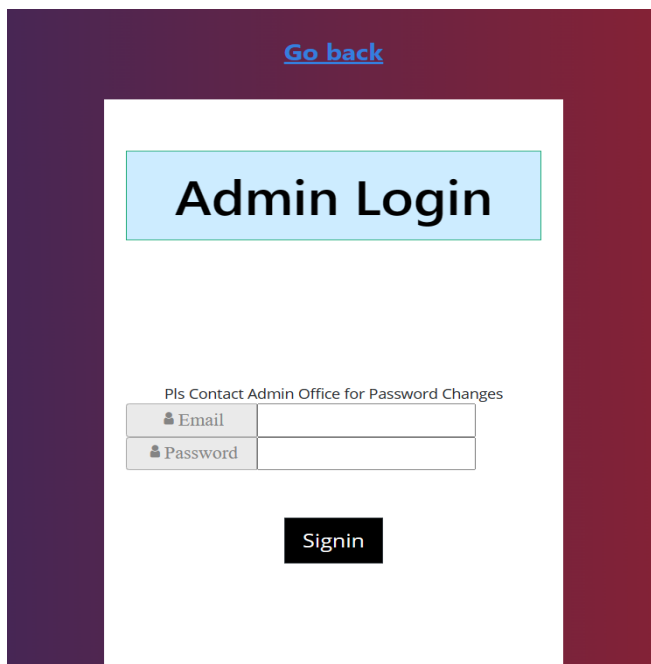

- Admin Login:
  - Administrators are empowered with capabilities such as:
  - Adding new bus schedules
  - Registering new buses
  - Updating driver information
  - Monitoring transaction logs

These elevated privileges streamline administrative tasks, ensuring effective management.

- 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:

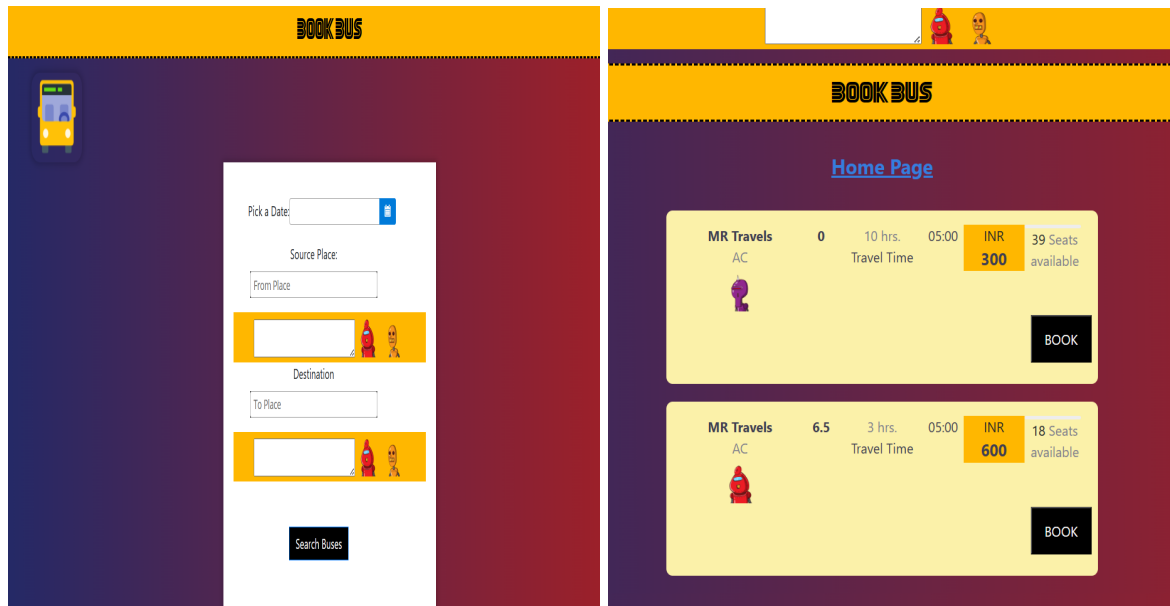A visually intuitive interface showcases available seats in green and booked seats in red. This enhances the user's ability to make informed decisions during the booking process.
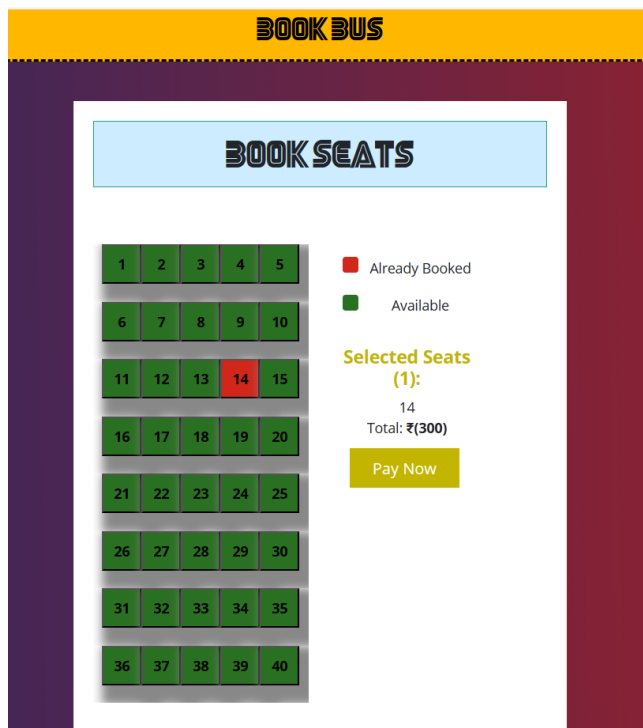
Payment and Confirmation:

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 ····

DBMS USER

valid thru
12/21

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.