**Genworx.AI - Full Stack with DevOps & AI & ML Track**

**Training Track** : Full Stack with DevOps & AI & ML

**Module** : Project Development

**Project Title** : Bus Ticket Booking System

**Problem Definition:**

The Bus Ticket Booking System aims to streamline the process of booking bus tickets, offering users a convenient and efficient platform for planning their journeys. It provides real-time information on bus schedules, seat availability, and booking options.

**Requirements:**

The Bus Ticket Booking System should meet the following requirements:

* **Display Routes:** Present a list of routes served by us.
* **Organize Multiple Departures:** Allow for multiple departures of buses on each route, with different timings throughout the day.
* **Search Functionality:** Enable users to search for buses based on criteria such as source, destination, date.
* **Provide Bus Details:** Display details about each bus, including its route, schedule, fare.
* **Seat Selection and Booking:** Allow users to select seats from the available options on the chosen bus and book them securely.
* **Seat Availability Indicator:** Provide real-time updates on seat availability to help users make informed booking decisions.

**User Roles:**

1. **Administrator:** Responsible for managing bus routes, schedules, fares, and user interactions. Manages bus services, including adding/removing buses, updating schedules, and monitoring bookings, Generate reports.
2. **Customer:** Registered users who can search, book, view, and cancel bus tickets online. User can also view the refunded and the cancellation details.
   1. **Guest User:** An unregistered user who is capable of viewing buses, view the seat layout. While booking the ticket he will be asked to login and then proceed to book the ticket.

**Modules and Functionalities:**

1. **Administrator:**

* Bus Management/Bus Service Management: Add/Update/Delete bus routes, schedules, and fares, seat availability
* User Management: Manage existing user accounts.
* Booking Management: View and Manage bookings, including cancellations and refunds.
* Content Management: Admin Can manage the offers section, cards sections in the Home Page
* Schedule Management: He can add schedules(On same routes, Multiple Routes, same time or multiple routes).
* Reports: As an admin, He must be able to view reports to improve the business and to monitor the revenue, here, we have various charts. We can view that and export into different formats if needed.

1. **Customer:**

* Login/Register: Secure access to the customer's account or registration for new users.
* Search and Booking: Search for buses, select seats, and book tickets.
* View and Cancel Tickets: View booked tickets and cancel them if needed.
* Refund and Cancellation: He can view the refund status and the Cancellation Details of the cancelled tickets

**Login Credentials:**

**For Admin:**

Mobile Number: 9876543210

OTP: OTP will be generated randomly. You can see the OTP in console (click f12 and see and entered the OTP)

**For User:**

Mobile Number: 9494488909

OTP: OTP will be generated randomly. You can see the OTP in console (click f12 and see and entered the OTP)

You can Also create a new user by entering a new Mobile Number. (If it’s a new account it will ask our name and automatically it will create the account).