ABSTRACT

ONLINE TRAIN TICKET BOOKING SYSTEM

The Online Train Ticket Booking System is a web-based application designed to streamline and simplify the process of reserving train tickets for passengers. This system offers a convenient and efficient solution for travelers to plan and manage their train journeys. It leverages modern technology to provide a user-friendly interface, real-time information, and secure online transactions.

MODULES:

1.USER MODULE 2.ADMIN MODULE

USER MODULE

1.User Registration and Authentication:

Passengers can register securely by providing personal information. User authentication ensures the security of user accounts.

2. Search and Selection:

Passengers can search for trains by specifying origin, destination, travel date, and class preferences.

The system provides real-time information on train schedules, seat availability, and fare details.

3. Booking and Reservation:

Users can select their preferred train, class, and the number of tickets.

Real-time seat availability helps passengers choose seats or berths.

The system calculates the total fare and facilitates secure online payments.

4.Ticket Generation:

After successful payment, electronic tickets are generated with a unique booking reference. Passengers can download e-tickets or receive them via email or SMS.

5. Cancellation and Refund:

Passengers have the option to cancel bookings based on applicable terms and conditions. The system processes refund requests and updates user accounts accordingly.

6.User Profile and History:

Passengers can access and update their profiles, including personal information and travel preferences.

A booking history feature displays past and upcoming journeys.

ADMIN MODULE

1.Admin Dashboard:

Administrators have access to a dedicated dashboard with powerful tools for system management.

Admins can add, update, or remove train schedules, ensuring accurate and up-to-date information for users.

2.User Management:

Admins can manage user accounts, including user verification, suspension, or deletion. User issues and inquiries are addressed promptly.

3. Ticket and Booking Management:

Admins can monitor and manage ticket bookings, resolving any discrepancies or issues. They have the ability to override system restrictions in exceptional cases.

4.Security and Data Protection:

The admin module oversees system security, implementing encryption and ensuring user data protection.

Regular security audits and updates are conducted to maintain a secure environment.

MINI PROJECT CONCEPTS

Admin:

Simple admin dashboard

User:

Register Login Select seat Book ticket Payment

MAIN PROJECT CONCEPTS

- Advanced admin dashboard including more user friendly atmosphere.
- Chatbot and virtual assistant
- Track vehicle by integrating the map.
- Social media integration

Allow users to share their travel plans and bookings on social media platforms directly from the applications

- Provides digital coins which can be used for discounts
- Intelligent fare pricing

Utilize machine learning algorithms for dynamic pricing based on demand, time of booking, and historical data.

SOFTWARE SPECIFICATIONS:		
Frond End: HTML,CSS,JAVASCRIPT		
Back End: Python Django		
Server: SQLlite		