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COLLEGE OF ENGINEERING
AUTONOMOUS
KANJIRAPPALLY

TRAINDEKHO

23MCA245 - Mini Project

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INMCA2022-27 S6
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ABSTRACT

The TRAINDEKHO proposed Train Booking System is a web-based platform designed to enhance the existing Indian Railway Catering booking system. The goal is to streamline the process of ticket booking, cancellation, and passenger management with improved features like real-time availability, and enhanced user experience. The primary objective of the system is to allow users to explore train options, select preferred trains, pre-book food (breakfast, lunch, tea, dinner) and plan travel itineraries. By combining ticket booking and food ordering, this system enhances the passenger's travel experience, ensuring comfort and convenience throughout their journey. The proposed system integrates train ticket booking with a food ordering module, allowing passengers to select their meals while booking their tickets or during their journey. The system will offer a variety of food options, tailored to different train routes and preferences, including snacks, beverages, and full meals. Passengers can choose from menu items, customize their orders, and make payments directly through the platform. The system will also allow for real-time updates, including meal delivery status and seat availability. The proposed Train Booking System is aimed at enhancing the passenger experience by providing a seamless interface for train search, ordering food and ticket reservation planning. It functions as where users can easily browse through available trains, check for seat availability, and plan their journeys based on real-time information.

Key Features of the Proposed System:

Integrated Ticket and Food Booking: Users can book tickets and order food in a single transaction.

Customized Menu Options: Meal choices based on the train route, class, and preferences. **RealTime Delivery Updates:** Passengers receive notifications on food delivery status during their journey. **User-Friendly Interface:** Simplified booking process, available via mobile or web platforms.

Advantages:

Enhanced Convenience: Passengers can handle both booking and food ordering from one platform. **Time-Saving:** Streamlined process for both meal selection and ticket reservation, reducing the time spent on separate tasks. **Customizable Experience:** Passengers can select meals that suit their

dietary preferences and travel needs. **Improved Passenger Satisfaction:** By offering food services directly within the booking system, the experience becomes more comfortable and personalized.

Users

1. **Passengers**:
    - Book and manage tickets, view schedules, and receive travel-related updates. **Search and Book Tickets:** Users can search for available trains, view schedules, and book tickets with seat preferences. **Food Menu Selection:** Users can browse food options, select meals, and place orders during the booking process.

      Order Tracking: Track both ticket and food order status via the system or mobile app. **Cancellation and Modifications:** Users can cancel or modify bookings, including food orders, as per the train's rules.

2. **Admin**:

    Train Schedule Management: Admins can add, modify, or remove train schedules, including timings, routes, and seat availability. Food Menu Management: Admins can update and manage the food menu, including meal options, prices, and availability based on the train route. Booking Management: Admins can view, manage, and generate reports on ticket and food bookings, cancellations, and modifications. User Management: Admins can access passenger profiles, view booking history, and handle support requests or issues related to bookings or food orders. Analytics and Reporting: Real-time analytics on bookings, food orders, revenue, and user preferences, enabling data-driven decision-making.

Functionalities

1. **User Registration and Authentication**:
    - Passengers can create accounts and log in securely to access personalized features.
2. **Train Search and Schedule Display**:
    - Users can search for trains based on source, destination, and travel dates.

3. **Food Ordering & Pre-booking**
    - Pre-booking food like breakfast, lunch, dinner etc.
4. **Seat Availability and Reservation**:
    - Real-time updates on seat availability across different classes.
5. **Admin Dashboard**:
    - Manage train schedules, routes, and station details.
    - View and manage user accounts and bookings.
6. **User Profiles**:
    - Users can view their booking history and upcoming trips
7. Ticket Booking and Cancellation:
    - Passengers can book tickets for specific trains and classes, make payments, and receive e-tickets.
    - Cancellation options with partial refunds as per policy.

Technologies Used:

Front-End: HTML5, CSS3, JavaScript.

Back-End: PHP (Laravel framework).

Database: MySQL for relational data management

This proposed system aims to enhance the travel experience by integrating key services into one platform, providing a seamless journey from booking tickets to enjoying meals during travel, while improving operational efficiency for IRCTC.