Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC Accredited with "A" Grade (CGPA : 3.18)

Department of Computer Engineering
Academic Year 2020-2021

OUR-CTC
(Railway Booking Site)

Web Designing Lab

By

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Project Title

1. ABSTRACT

The Indian Railways (IR) carries about 5.5 lakhs passengers in reserved accommodation every day. The Computerised Passenger Reservation System (PRS) facilitates the booking and cancellation of tickets from any of the 4000 terminals (i.e. PRS booking window all over the countries). These tickets can be booked or cancelled for journeys commencing in any part of India and ending in any other part, with travel time as long as 72 hours and distance up to several thousand kilometres. In the given project we will be developing a SQLite Database which will help users to find train details, enquire about trains running between given two stations, book tickets and know the exact rates of their tickets to the desired destination. With the help of online booking people can book their tickets online through internet, sitting in their home by a single click of mouse. The main objective of the project is management of the database of Railway System. This is done by creating database of the trains between various stations, user database, booking database and many more. The database is then connected to main program using interconnection of the program with the database using NodeJS. To access this Railway Ticket Booking System Project , users have to register by giving their entire details such as their name, full address details, sex, age, date of birth, nationality, mobile number, email id. After successful registration, users will be provided with their login id and password. The Ticket Management System has applicants and administrators. Ticket Booking Offices are located in various parts of the state and each office is looked after by administrators. Each administrator has a unique identity, name, address, start date of work at an office in particular location.

2. INTRODUCTION

a. PROBLEM STATEMENT

Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth-largest railway network in the world by size . Create a website that does the follows:

- Give information about the route, cancellation of tickets , departure time , arrival time and number of trains available.
- Store and retrieve information about various transactions related to rail travel.
- Maintain record of passengers travelling in the different trains on different dates reaching different destinations in the system.
- User friendly interface for the admin and passenger

b. MOTIVATION

Pseudo Indian Railway Catering and Tourism Corporation is a subsidiary of the Indian Railways that handles the catering, tourism and online ticketing operations of the Indian railways, with around 5,50,000 to 6,00,000 bookings everyday is the world's second busiest. It's tagline is "Lifeline of the nation". It is known for changing the face of railway ticketing in India. It pioneered internet-based rail ticket booking through its website, as well as from the mobile phones via WiFi, GPRS.In addition to e-tickets, Indian Railways Catering and Tourism Corporation also offers I-tickets that are basically like regular tickets. In the given project we will be developing a SQL Database which will help users to find train details, enquire about trains running between given two stations, book tickets and know the exact rates of their tickets to the desired destination. With the help of online booking people can book their tickets online through internet, sitting in their home by a single click of mouse.

c. PROPOSED SOLUTION

Create a website for automating manual reservation system of the railway.

- It should be designed to provide functionalities like booking of tickets in which a user should be able to apply for tickets of any train and of any class.
- A limitation is imposed when the number of tickets for which the user has applied is greater then available seats or no seats are available.
- If the tickets are available then it is issued to the user and a receipt is generated for the same.
- The website also provides the functionality of cancellation of tickets.
- The system also calculates the amount to be return to the user after deductions. The system must update the database for the same.
- Security provisions like the login authenticity should be provided. Each user should have a user id and a password. Record of the users of the system should be kept in the logfile. Provision should be made for full backup of the system.

3. SOFTWARE/TECHNOLOGIES USED

- HTML
- CSS
- Javascript
- MongoDB

4. IMPLEMENTATION

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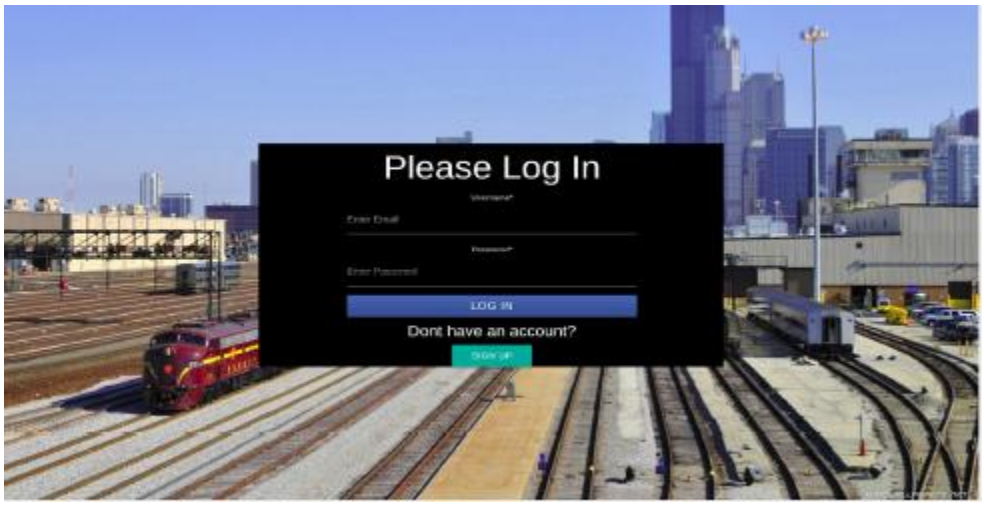
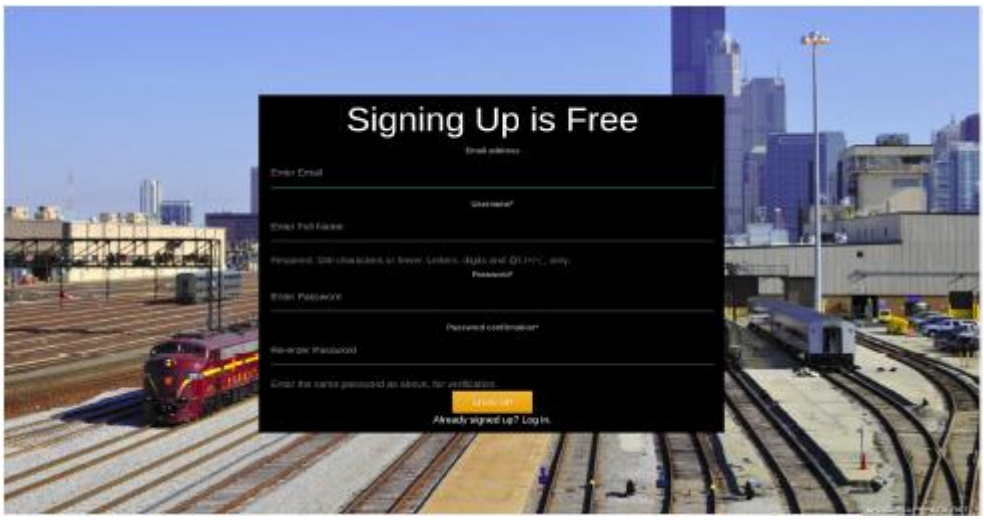
- **Login Form:**



- **Sign Up Form :**



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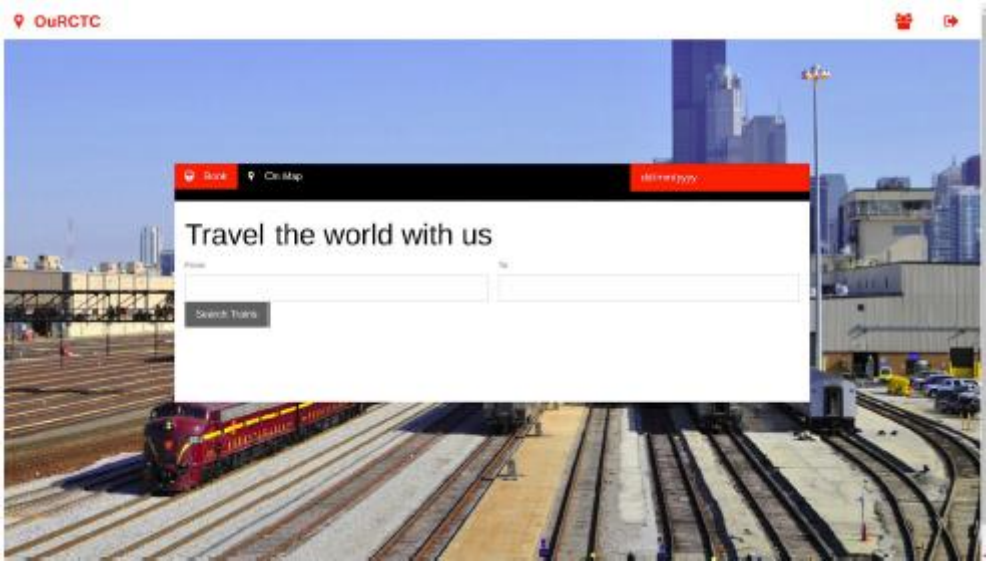
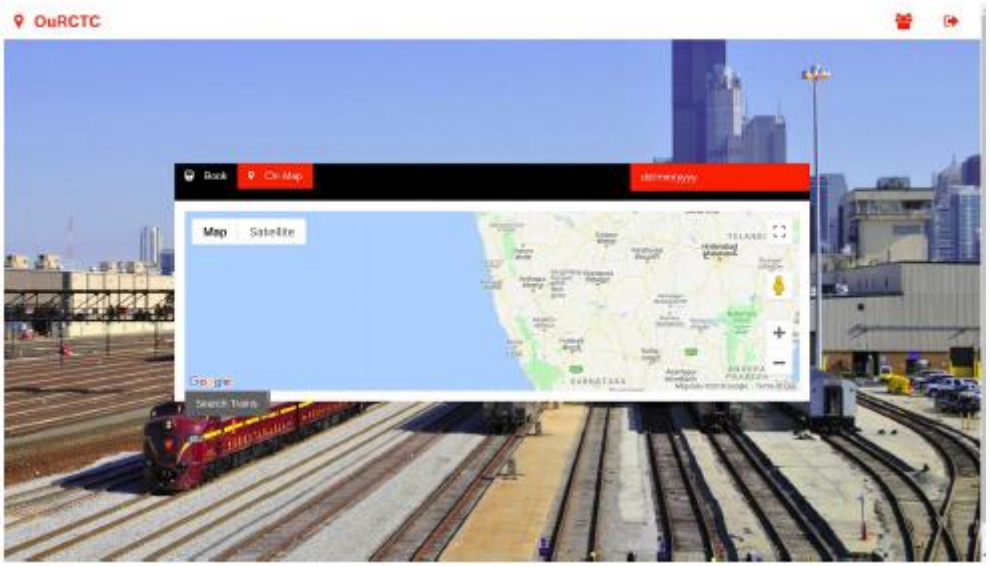
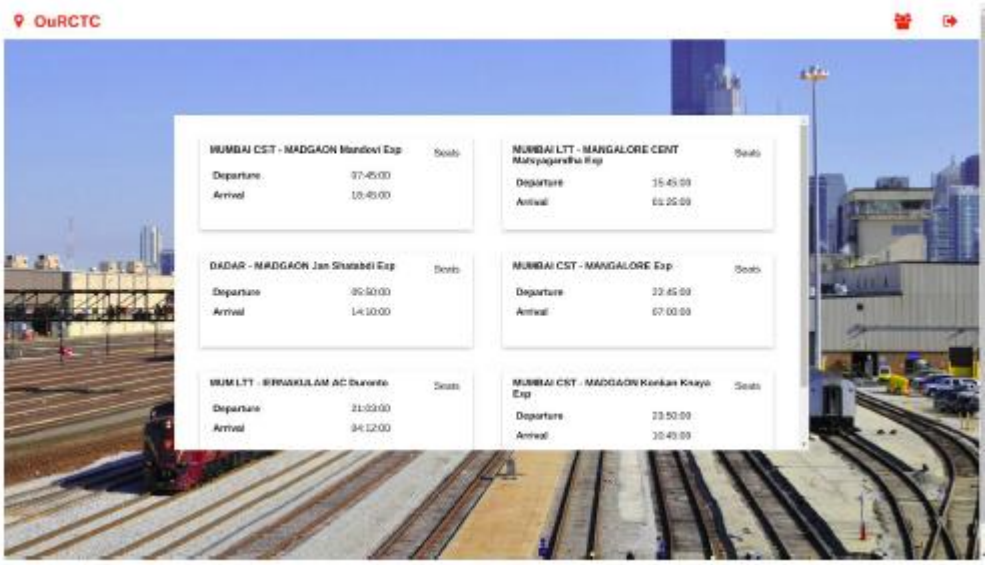
- **Home Page:**



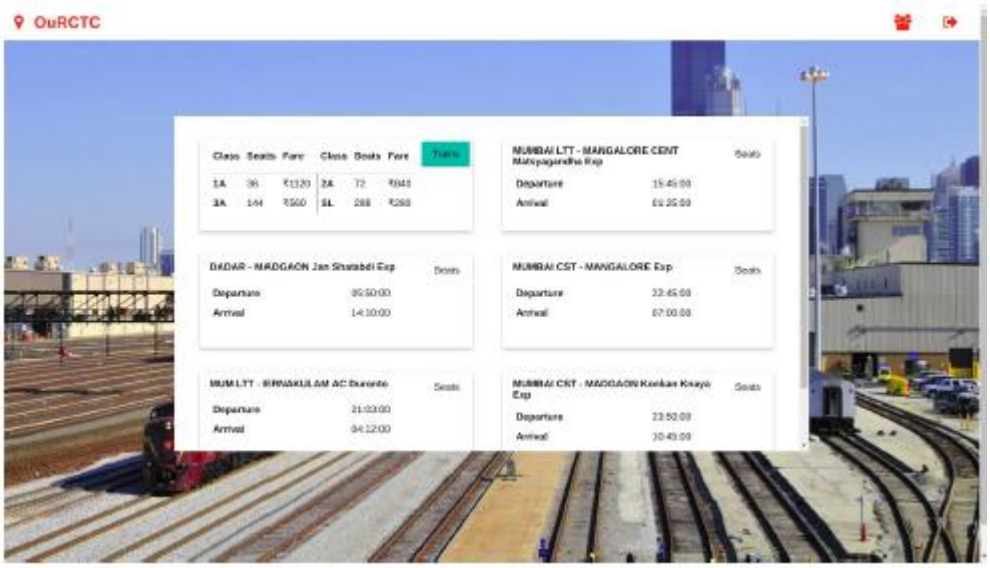
- **Select From Map:**



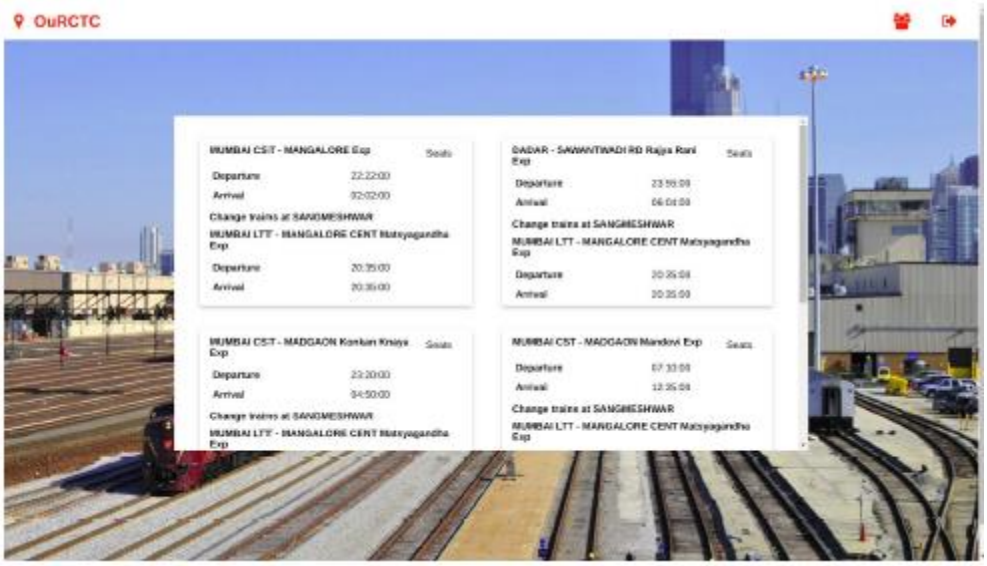
- **Display Trains:**



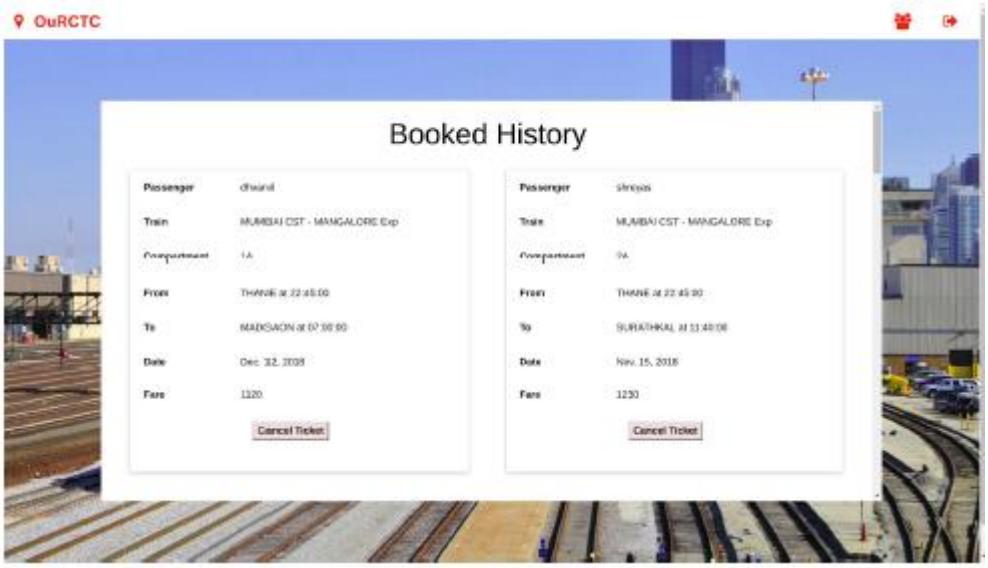
- **Display Available Seats:**



- **Display Connecting Trains:**



- **Booked Ticket History:**



5. CONCLUSION:

Indian Railway Catering and Tourism Corporation (IRCTC) is a subsidiary of the Indian Railways that handles the catering, tourism and online ticketing operations of the Indian railways, with around 5,50,000 to 6,00,000 bookings everyday is the

world's second busiest. It's tagline is "Lifeline of the nation". It is known for changing the face of railway ticketing in India. Databases are used to support internal operations of organizations and to underpin online interactions with customers and suppliers. Databases are used to hold administrative information and more specialized data, such as engineering data or economic models. Examples include computerized library systems, flight reservation systems, computerized parts inventory systems, and many content management systems that store websites as collections of webpages in a database. We have tried to implement a part of IRCTC and it has helped us to understand how Database is managed in the website.

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