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1. Project Abstract



ABSTRACT

The Railway Ticket Booking System is an application developed to simplify and streamline the ticket booking process for passengers. This system, developed in C, manages and stores all the booking-related data in an efficient manner, ensuring a reduction in errors and time-consuming tasks that were common in manual systems. The primary goal of this system is to provide a reliable, secure, and user-friendly platform for booking railway tickets.

The system has two types of logins: Administrator and Client. The administrator manages the overall system operations, including client data, ticket bookings, and access control. The client, on the other hand, can register and book tickets by selecting destinations, coach types, and other preferences.

This system was created to address issues like data redundancy, difficulty in handling multiple files, and inefficiencies in manual ticket booking processes. It offers secure access to sensitive information, with only the administrator having the authority to modify or update data. The client can view and manage their booking details through their login.

The system ensures accurate data handling and eliminates the need for redundant entries, offering a smooth experience for users. By automating the process of ticket booking, the system is more reliable and reduces the chances of errors, providing a more efficient and organized way to manage bookings.

2. Objectives



Objectives:

The primary objective of a Railway Ticket Booking System is to simplify and automate the process of booking train tickets, making it more efficient and user-friendly. It aims to reduce the complexities associated with manual booking and provide a smooth experience for both passengers and administrators. Here's a breakdown of its goals:

- Efficient Ticket Booking Process
- Revenue Management
- Reduces Communication Gaps
- Destination and Coach Management
- Passenger Information Handling
- Organizes and Simplifies Booking Tasks
- Centralized Data and Easy Access

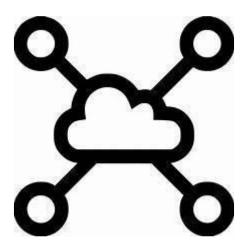
3. Software Specification



Software Specification

Language	C Language
Operation System	Windows 11
Tools	Dev C++

4. Database Design / File System (Table Design)



Admin Database Design:

Admin Register	Admin Login
Admin Full Name	Admin Email Id
Admin Contact Number	Admin Password
Admin Address	
Admin Email Id	
Admin Password	
Admin Repeat Password	

User Database Design:

User Register	User Login
User Full Name	User Email Id
User Contact Number	User Password
User Address	
User Email Id	
User Password	
User Repeat Password	

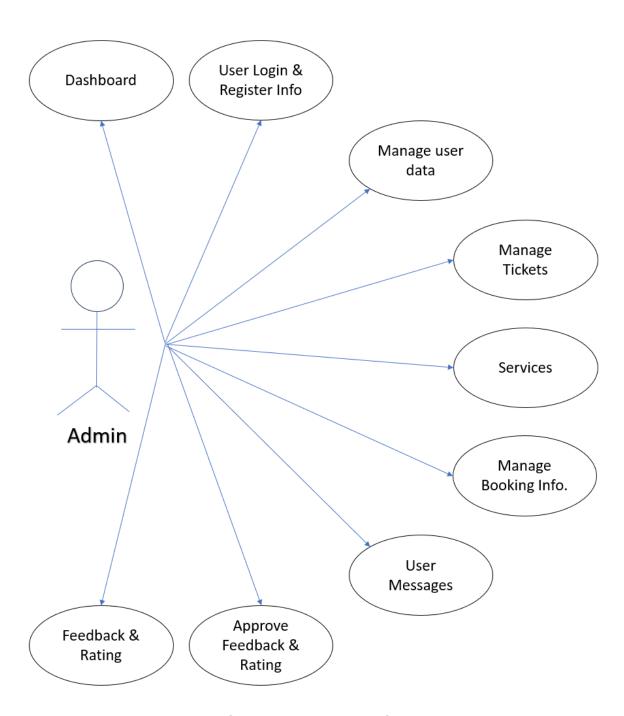
Ticket Booking Database Design:

Tourist Name
Tourist Age
Select Destination
Select Coach [AC & Non-AC]
Select Food [Veg & Non-Veg]
Counts of Tickets
Show Ticket Price
Payment Process
Payments Amount
Payment Id
Payment Process

5. Diagrams

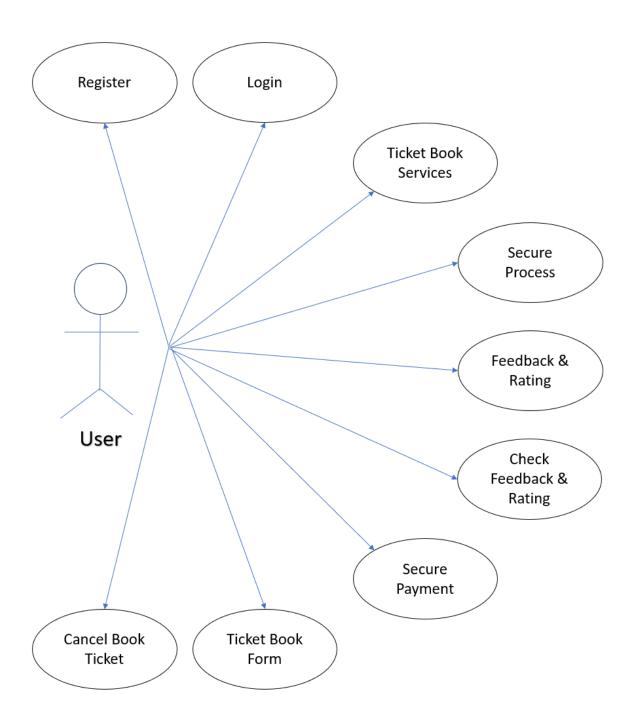


5.1 Use Case Diagram



[Admin Use Case Diagram]

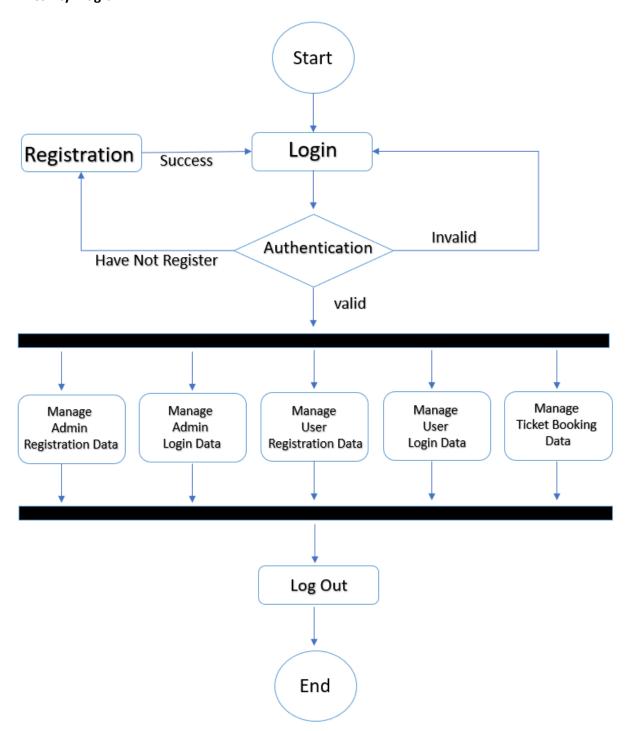
User Use Case Diagram:



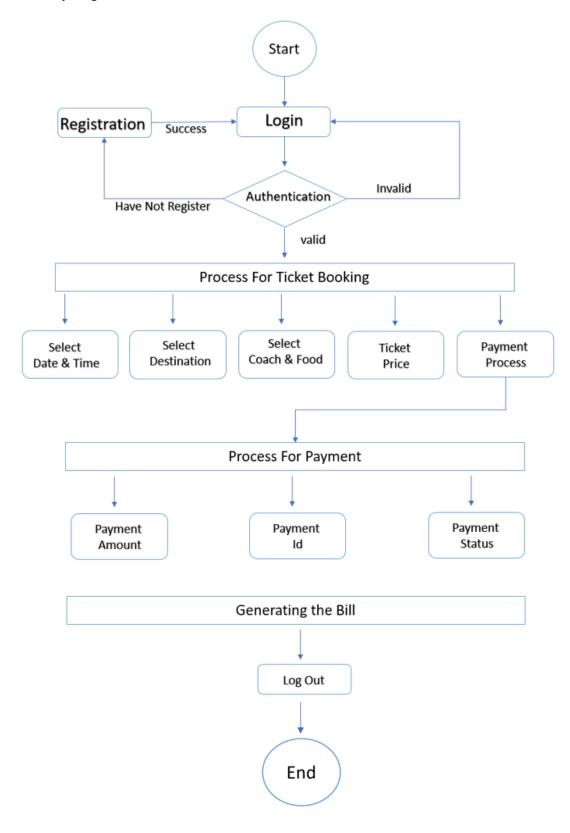
[User Use Case Diagram]

5.2 Activity Diagram

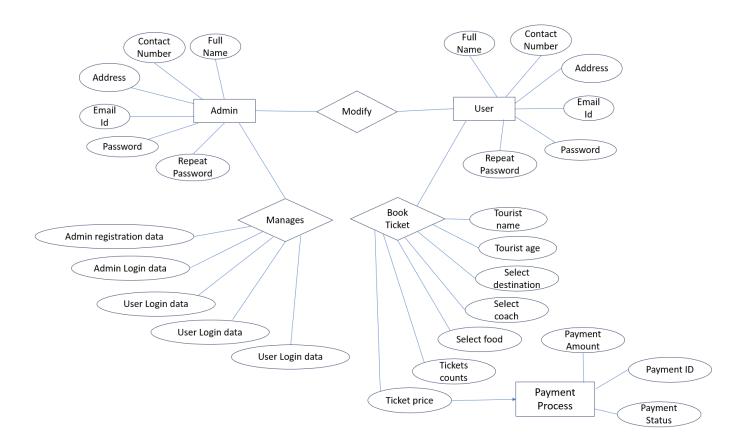
Admin Activity Diagram:



User Activity Diagram:



5.3 ER Diagram



6. System Flow Chart



Screenshots:

Admin Registration & Login:

```
Admin Side
   Client Side
Enter Your Choice: 1
                      --- Welcome To Admin Side ----

    Login
    Exit

Enter Your Choice: 1
  ----- Admin Registration -----
Enter your full name: Anant
Enter your contact number: 8140591020
Enter your address: Surat
Enter your email: Anant@gmail.com
Enter your password: 2526
Repeat your password: 2526
           ----- Confirm Your Details ------
Name : Anant
Contact : 8140591020
Address : Surat
Email : Anant@gmail.com
Password : 2526
```

```
1.Check Admin Registration Data
2.Check Admin Login Data
3.Check Client Registration Data
4.Check Client Login Data
5.Check Ticket Booking Data
Enter your choice : 2

Admin Login Data:

Email: admin1@gmail.com, Password: 111, logged in successfully at 23:41:17

Email: admin2@gmail.com, Password: 222, logged in successfully at 23:42:17

Email: admin3@gmail.com, Password: 333, logged in successfully at 23:42:17

Email: admin4@gmail.com, Password: 444, logged in successfully at 23:43:17

Email: admin5@gmail.com, Password: 555, logged in successfully at 23:43:17

Email: admin1@gmail.com, Password: 111, logged in successfully at 00:37:08

Email: anant@gmail.com, Password: 123, logged in successfully at 11:00:09

Email: 23, Password: 23, logged in successfully at 11:29:44

Email: Anant@gmail.com, Password: 2526, logged in successfully at 19:13:08
```

- 1.Check Admin Registration Data
- 2.Check Admin Login Data
- 3.Check Client Registration Data
- 4.Check Client Login Data
- 5.Check Ticket Booking Data

Enter your choice : 6

Invalid Choice!

User Registration & Login:

```
----- Welcome To Railway Ticket Booking Application ---
1. Admin Side

    Client Side
    Exit

Enter Your Choice: 2
               ----- Welcome To Client Side ------
1. New Registration

    Login
    Exit

Enter Your Choice: 1
  ------ Client Registration ------
Enter your full name: anant
Enter your contact number: 56
Enter your address: s
Enter your email: anant@gmail.com
Enter your password: 369
Repeat your password: 369
        ----- Confirm Your Details ------
Name
       : anant
Contact : 56
Address : s
Email
         : anant@gmail.com
Password: 369
Are the details correct? (y/n): y
Registration successful! Client registration data saved to file.
```

Ticket Booking Process:

```
------ Fill The Details & Book Your Ticket Easily Here
Enter the Tourist Name: anant
Enter the Tourist Age: 26
                                                                        Destination
                                        Surat
                                                                        Vadodara
                                                                        Ahmedabad
                                        Surat
                                                                        Rajkot
                                        Surat
                                                                        Jamnagar
                                                                        Bhuj
Gandhinagar
                                        Surat
                6
                                        Surat
                                        Surat
                                                                        Junagadh
                                        Surat
                                                                        Porbandar
                                                                        Palanpur
                                        Surat
                                        Surat
                                                                        Navsari
Enter Your Choice For Select Destination: 5
 You Select The Destination Surat To Bhuj
 Which type of Coach do you want ?
        1. AC
       2. Non-AC
Enter Your Choice For Select Coach : 1
You Select AC Coach
Which type of food do you want:
        1. Veg
        2. Non-veg
Enter your choice for select food : 1
How many tickets do you want : 2
```

```
Tourist Name is: anant
Tourist Age is: 26
Ticket Booked Date: 24-11-2024
Ticket Booked Time: 11:06:55
Your Destination is: Surat To Bhuj
Your Coach is: AC Coach
Your Food is: Veg
Total number of tickets: 2
Your total ticket price is: 2700
You Have To Pay: 2700
Do you want to proceed with booking? (Y/N): y
```

Ticket Generated:

Tourist Name: anant
Tourist Age: 26
Ticket Booked Date: 24-11-2024
Ticket Booked Time: 11:07:33
Destination: Surat To Bhuj
Coach: AC Coach
Food: Veg
Total Tickets: 2
Total Ticket Price: Rs.2700/Payment Amount: Rs.2700/Payment ID: FE5848387
Payment Status: Paid
Thank you for booking with us!

7. Source Code



8. Testing



9. References

- www.studytonight.com
- www.drawio.com
- www.cppreference.com
- www.scaler.com/topics/c/file-handling-in-c/