### **Team Members:**

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## **Objective:**

Railway is a very important part of India's transportation system. Proper management of it is equally important. There are so many trains and so many passengers as well, along with different ticket fares based on compartments. Different trains have different timings and different routes as well. If they are not managed properly, there would be absolute chaos. The main objective of this project is to provide solution to this problem by providing a system which would reduce the manual work and help in the management. This project is totally built at administrative level and thus only the administrator is guaranteed the access. This project is focused on a single railway station.

### **Introduction**:

In this railway management system, the user will be able to search all the trains passing through the station along with train timings. The user will be shown ticket fares on selecting a particular train according to compartments. The user will be able to book tickets. The user will be required to enter the passenger details while doing so. The data will be able to stored in a database. The user will also be able to view the details of all the passengers who have booked the tickets.

## **Technology Used:**

- C++ / OOPS
- File Handling

## **Expected Output:**

- Search trains at a particular station
- View Train Timings
- Able to view ticket fares
- Book tickets by entering number of passengers and passenger details in a single PNR.
- Get total fare details the passenger need to pay.
- Get Tickets
- View the details of already booked tickets.
- Add travel companions
- Cancel tickets

## **Output:**

- ✓ Search trains at a particular station
- ✓ View Train Timings
- ✓ Able to view ticket fares

```
Enter the Choice: 2
___Book a ticket in this section__
1.train to DELHI
2.train to KOLKATA
3.train to PATNA
4.train to NAGPUR
5.train to JAIPUR
6.train to MUMBAI
WELCOME TO THE RAIWAYS!
Press the number of the city you want to book the train:1
_WELCOME TO DELHI_
your comfort is our priority , Enjoy the journey!
 Following are the Trains
 1.DEL-123
        08-01-2022 8:00AM 10hrs 3A-Rs.2100 2A-Rs.3100 1A-Rs.5200
 2.DEL-345
       09-01-2022 10:00AM 15hrs 3A-Rs.2300 2A-Rs.3300 1A-Rs.5400
 3.DEL-456
        10-01-2022 11:00AM 20hrs 3A-Rs.2400 2A-Rs.3500 1A-Rs.5100
 Select the Trains you want to book: 1
 Enter the AC class in which u want to travel : 3
 YOU HAVE SUCCESFULLY BOOKED THE TRAIN DEL-123
YOU CAN GO BACK TO MENU AND TAKE THE TICKET
 press any key to go back to the main menu:
```

✓ Book tickets by entering number of passengers and passenger details in a single PNR.

```
Enter the Choice: 1
 __Customers___
Your PNR number is: 1000011270
Enter the number of passengers: 2
Enter the customer ID :1
 Enter the Name :Akash
 Enter the age :19
 Enter Birth Preference :U
 Gender:M
 Enter the customer ID :2
 Enter the Name :Ankit
 Enter the age :19
 Enter Birth Preference :L
Gender:M
Yours details are saved with us.
Your PNR number is: 1000011270
Please use this PNR number to book tickets!
Press any key to go back to the Main Menu
```

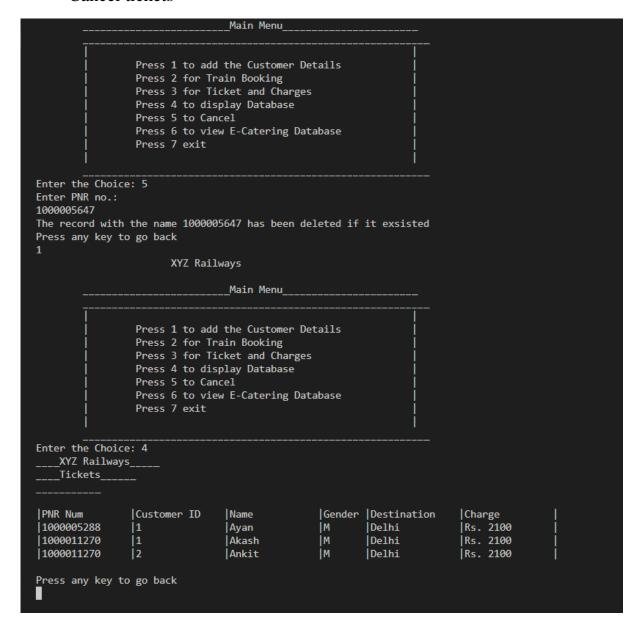
- ✓ Get total fare details the passenger need to pay.
- ✓ Get Tickets

XYZ Railways						
	Main Menu					
Pre: Pre: Pre: Pre: Pre:	ss 1 to add the Cus ss 2 for Train Book ss 3 for Ticket and ss 4 to display Dat ss 5 to Cancel ss 6 to view E-Cate	ing   Charges  abase		             		
Enter the Choice: 3						
Getting your Tick	cet					
Total Cost: 4200Your Ticket is printed, you can collect it						
Press 1 to display youXYZ RailwaysTickets						
PNR Num	Customer ID	Name		Boarding	Destination	Charge
1000011270 1000011270	1  2	Akash  Ankit	M  M	CHN  CHN	Delhi  Delhi	2100    2100
Press any key to go∣	pack					

✓ View the details of already booked tickets.

```
Main Menu_
                  Press 1 to add the Customer Details
                  Press 2 for Train Booking
Press 3 for Ticket and Charges
                  Press 4 to display Database
                  Press 5 to Cancel
                  Press 6 to view E-Catering Database
                  Press 7 exit
Enter the Choice: 4
  __XYZ Railways____
   _Tickets_
                                                                             |Charge
|Rs. 2100
PNR Num
                 |Customer ID
                                   Name
                                                    |Gender | Destination
1000005288
                                   Ayan
                                                            Delhi
                                                                             Rs. 1400
1000005647
                                   Bhavya
                                                    M
                                                            Nagpur
1000011270
                                   Akash
                                                            Delhi
                                                                             Rs. 2100
                                                    ļΜ
                                                                             Rs. 2100
1000011270
                                  Ankit
                                                            Delhi
Press any key to go back
```

### ✓ Cancel tickets



## **Additional:**

- ✓ Added **User Mode** along with Admin Mode
  - o Admin Mode:

Select:	WELCOME TO XYZ RAILWAYS					
	Enter Admin Username: admin  Enter Admin Password: admin  XYZ Railways					
Main Menu						
	Press 1 to add the Customer Details Press 2 for Train Booking Press 3 for Ticket and Charges Press 4 to display Database Press 5 to Cancel Press 6 to view E-Catering Database Press 7 exit					
Enter the Choice: 4						

## o User Mode:

WELCOME TO XYZ RAILWAYS					
1. Admin Mode   2. User Mode   3. Exit   Select: 2					
WELCOME TO USER MODE					
1. Create New Account					
<ol><li>Login using existing account</li></ol>					
Select: 2					
LOGING IN					
Enter ID: iamayan2011					
Enter Password: 12345					

#### User Mode Main Menu:

```
XYZ Railways

______Main Menu_____

Press 1 to add the Customer Details
Press 2 for Train Booking
Press 3 for Ticket and Charges
Press 4 to Cancel
Press 5 to order food
Press 6 exit
```

### **✓** E-Catering Service

```
WELCOME TO E-CATERING SERVICE
       1. View Menu and Order Food
       2. Print Receipt
       3. Back
Enter Details to continue
       Enter Your PNR number: 1000005288
Welcome Ayan! Please find the Menu!
                          FOOD MENU
               |Item Name
                                                      Price
        S.no.
               Simple Veg Thali
                                                      Rs. 190
        1.
               |Special Veg Thali
                                                      |Rs. 210
        2.
               |Veg Deluxe Thali
                                                      Rs. 240
        [3.
        4.
               |Simple Non-Veg Thali
                                                      |Rs. 210
        5.
               |Special Non-Veg Thali
                                                      IRs. 250
                                                      Rs. 270
        |6.
               Non-Veg Deluxe Thali
               |Simple South-Indian Thali
                                                      Rs. 210
               |Special South-Indian Thali
                                                     |Rs. 240
        8.
Enter the number of Items you want to book:
Enter your Choice 1: 1
       Simple Veg Thali booked!
Enter your Choice 2: 4
Simple Non-Veg Thali booked!
Order Placed Successfully! Please collect your Reciept by Print Reciept option!
Press any key to continue . . .
```

	WELCOME TO	E-CATER	ING SERVI	 CE			
2	<ol> <li>View Menu and Order</li> <li>Print Receipt</li> <li>Back</li> </ol>	Food					
	ORD	ER RECI	PT				
	Passenger Details:	Name		Boarding		1	
	1000005288   Ordered Food Details:	Ayan	M	CHN	Delhi		1
	Simple Veg Thali  Simple Non-Veg Thali		Rs. 190 Rs. 210				
Press a	any key to continue	•					

✓ View all the previously ordered Food through E-Catering Service using Admin Mode

WELCOME TO XYZ RAILWAYS						
Enter Admin Username: admin						
Enter Admin Password: admin XYZ Railways						
Main Menu						
Press 1 to add the Customer Details Press 2 for Train Booking Press 3 for Ticket and Charges Press 4 to display Database Press 5 to Cancel Press 6 to view E-Catering Database Press 7 exit						
Enter the Choice: 6						
FOOD DATABASE						
PNR no	Price					

Railway Management System						