Project Report

Railway Reservation System

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Introduction

This Railway Reservation system is basically concerned with the reservation and cancellation of railway tickets to the passengers. The need of this system arose because as is the known fact that Pakistan has the large railway network and to handle it manually is quite difficult job. By computerizing it, we will able to overcome many of its limitations and will be to make more efficient. The handling of data and records for such a vast system is a very complex task if done manually but it can be made much easier if the system is computerized.

Tools Used

SQL Server Management Studio: SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure, from SQL Server to Azure SQL

JAVA (Language): Java is an object-oriented, cross platform, multi-purpose programming language produced by Sun Microsystems. First released in 1995, it was developed to be a machine independent web technology. It was based on C and C++ syntax to make it easy for programmers from those communities to learn. Since then, it has earned a prominent place in the world of computer programming.

Eclipse: Eclipse is an open-source Integrated Development Environment (IDE) supported by IBM. Eclipse is popular for Java application development (Java SE and Java EE) and Android apps. It also supports C/C++, PHP, Python, Perl, and other web project developments via extensible plug-ins.

Implementation

We have successfully implemented our whole project in java language using eclipse
Following are the main classes of our project

Main Classes:

1. Bookingdeatils.java ()

2. EmployeeControl.java ()

3. EmployeeLogin.java ()

4. Home.java ()

5. Passeneger.java ()

6. StationDetails.java ()

7. TrainDetails.java ()

GUI of Project
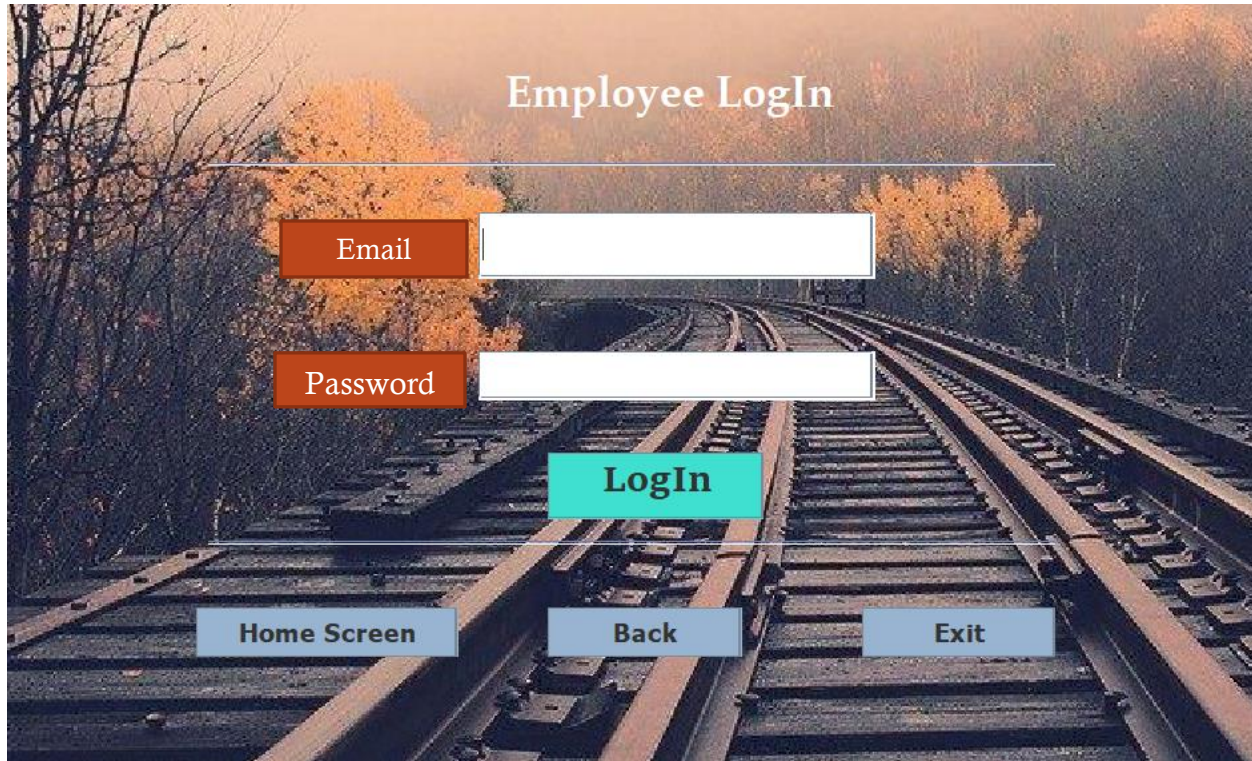
Following are the Interface screens of our project.

1. Home Page

Home page is showing main entities of project.

2. Employee Login

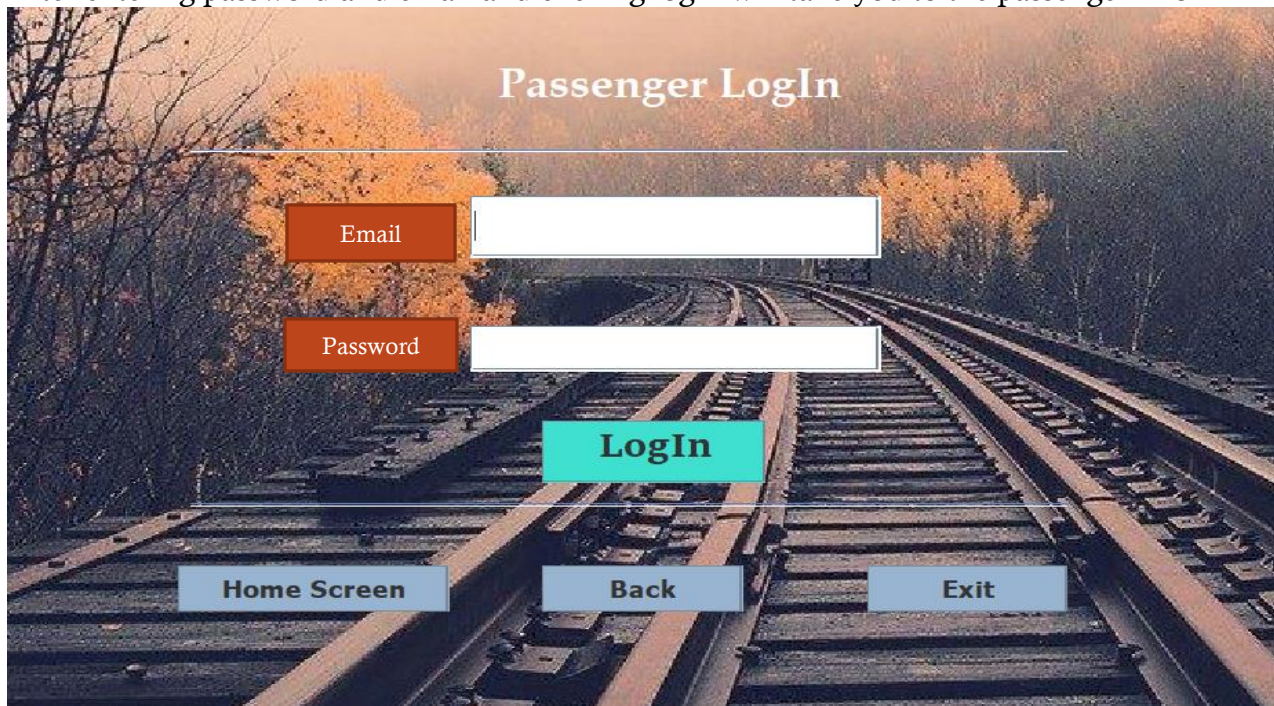After entering email and password and then clicking on login, it will take you to the employee info screen.

3. PassengerLogin

After entering password and email and clicking login will take you to the passenger info
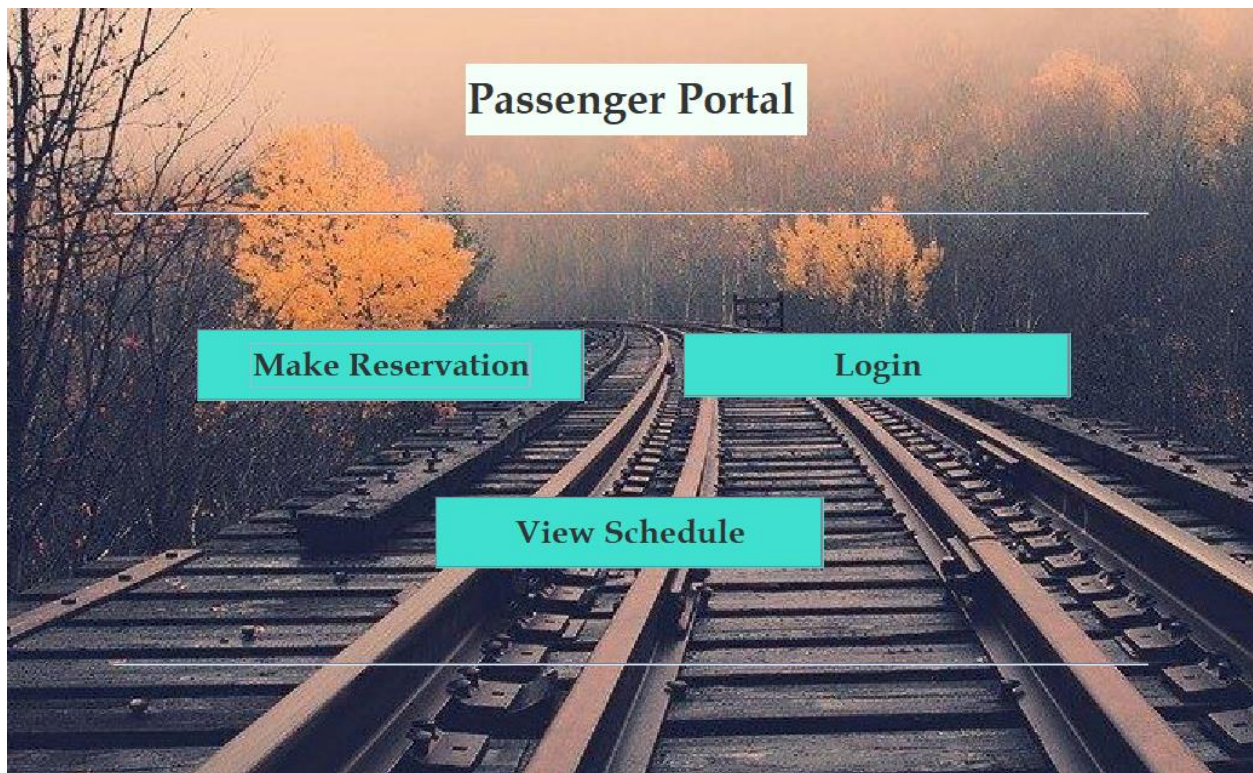
4. Passenger Portal

This screen is connected with these three other screens on clicking on any ,it will take to the respective screen.

5. Passenger

6. Station

7. Train Details

Database of Project

Entities/Objects

Main Entities/objects for the given system are:

- **Employee**

- **Passenger/Customer**

- **Station**

- **Booking**

- **Train**

Attributes of Objects

1. **Employee:** Emp_Id Password, First_name, Last_name, Gender, Age, Email, Mobile_No, Designation
2. **Passenger:** Passenger_Id, CNIC_No, Name, Gender, Age, Mobile_No, Address
3. **Station:** Station_ID, Station_Name, , Station_Type, City
4. **Train:** Train_Id, Train_Name, Destination, Source, Arrival_time, Departure_time, Total_Capacity, Ticket_Price
5. **Booking: Passenger_Id ,**Train_ID, Booked_By, No_of_Bookings, Seat_No Destination,Booking_Date, Total_Fares, Source

Database Schema

➕ Employee

Emp_ID	Password	First_Name	Last_Name	Gender	Age	Email	Mobile_No	Designation

➕ Passenger

Passenger_ID	CNIC_No	Name	Gender	Age	Mobile_No	Job

➕ Station

Station_Id	Station_Name	Station_Type	City

➕ Train

Train_ID	Train_Name	Destination	Source	Arrival_Time	Departure_Time	Capacity	Ticket_Price

➕ Booking

Passenger_ID	Train_ID	Booked_By	Destination	Source	No_Of_Bookings	Booking_Date	Total_Fare

Data Stored in Respective tables

➕ Employee

	Emp_ID	Password	First_Name	Last_Name	Gender	Age	Email	Mobile_No	Designation
1	1940	killer	Thomas	Shellby	Male	26	tshelby@hotmail.com	03348791234	Booking Manager
2	1941	life	Pablo	Escobar	Male	29	pbar@gmail.com	03317812351	Site Engineer
3	1942	death	Arya	Stark	Female	22	aryas@yahoo.com	03128714612	Accountant
4	1944	fear	Jon	Snow	Male	27	j.snow@outlook.com	03151264556	Station Manager

➕ Passenger

	Passenger_ID	CNIC_No	Name	Gender	Age	Mobile_No	Job
1	7861	6110198293151	Awais Majeed	Male	56	03216571241	Professor
2	7862	6110123124151	Obaid Awan	Male	22	03154532362	Student
3	7863	6110141256547	Iqrar Ijaz	Male	21	03173231235	Farmer
4	7864	6110112344557	Natasha	Female	21	03312512315	Student

Station

Station_ID	Station_Name	Station_Type	City
1431	Cant Station	Junction	Karachi
1432	Saddar Station	Terminal	Rawalpindi
1433	Golra Station	Terminal	Islamabad
1434	Cantonment Station	Central	Multan

Train

Train_ID	Train_Name	Destiantion	Source	Arrival_Time	Deparutre_Time	Total_Capacity	Ticket_Price
4201	Tezgaam	Quetta	Pindi	9:00 AM	3:00 PM	450	4500
4202	Awami	Mansehra	Chakwal	4:00 PM	12:00 PM	300	900
4203	Green Line	Lahore	Multan	10:00 PM	2:00 PM	350	1200
4204	Hazara	Peshawar	Islamabad	7:00 PM	4:00 PM	400	650

Booking

Passeneger_ID	Train_ID	Booked_By	No_Of_Bookings	Seat_No	Source	Destination	Booking_Date	Total_Fares
7861	4201	Awais Majeed	3	35-37	Rawalpindi	Multan	9th June 2020	4500
7862	4202	Obaid Awan	1	22	Islamabad	Mansehra	22nd July 2020	2000
7863	4203	Iqrar Ijaz	2	7,8	Chakwal	Karachi	4th June 2020	1500
7864	4204	Natasha	2	9,10	Quetta	Swabi	7th July 2020	2200

Thank You!