



## SY IT Batch A

**Viraj Desai -161080004**  
**Neel Shah - 161080003**  
**Jinit Jain - 161080016**  
**Hrishikesh Suslade - 161080001**

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# INTRODUCTION

In this emerging world of computers, almost all-manual system has switched to automated and computerized system. Therefore, we are developing the software for “Railway Reservation System” to model the present system. This project explores how computer technology can be used to solve the problem of user. Use of computer has solved many problems, which are faced during manual calculation. Once data are fed, it can perform accurate functions. Therefore, to reduce the complexity and efficiency a versatile and an outsourcing railway reservation system has been developed. This project introduces railway reservation system. It explains how reservation is being done in Indian Railways. The systematic procedure is explained. **This project is developed by using MySQL for Database Management Java for frontend using JDBC**

## SCOPE

The Scope of this project is currently only limited to only four cities and one route Mumbai, Ahmedabad, Jaipur, Delhi. Consisting of ten trains and has only one train class operational only for next three days. The System can be extended easily and can be applied to a larger scope very easily and effectively.

# PURPOSE

The purpose of this software is to describe the Railway Reservation System which provides the rail details, reservation and billing on various types of reservation namely:

- Confirm Reservation for a confirm Seat
- PNR Generation
- Proper Database Storage of User and Passenger

# REQUIREMENTS

## General Requirements

- Minimum Ram 4 GB
- Hard disk - 1 GB
- Processor - Quad Core 2.3 GHz

## Technical Overview

- Front End: Developed using Java JFrame
- Backend: Developed using Java JDBC
- Database: MySQL

# MODULES

- **Log in**

User name and password is used to as the attributes to log in into the railway reservation system. A user is identified by a unique key user\_name. The user name and password can be taken of user's choice.

- **Sign Up**

If a user wants to sign up for this system, he will need to sign up. The user will need to fill details such as name, contact, age, gender, address and a unique user\_name and a password.

- **Main Page**

The user will have to select the source and destination of travel, the date and the no of passengers once logged in. Ticket can be booked only for next 3 days and at max 5 tickets for a journey can be booked at once by a user

- **Passenger and Train Details**

The user shall now select train and enter the passenger details. The trains displayed will be only available for that route and if the seats are available.

- **Confirm Ticket**

The final details of the train journey are displayed on this window. Including the user name who booked the train, train no, train name, source and destination, passenger details including passenger name, PNR number, age and gender.

# USERS

- **Administrator**

A administrator can view all the details by using the MySQL workbench. He can also edit and add details in the database.

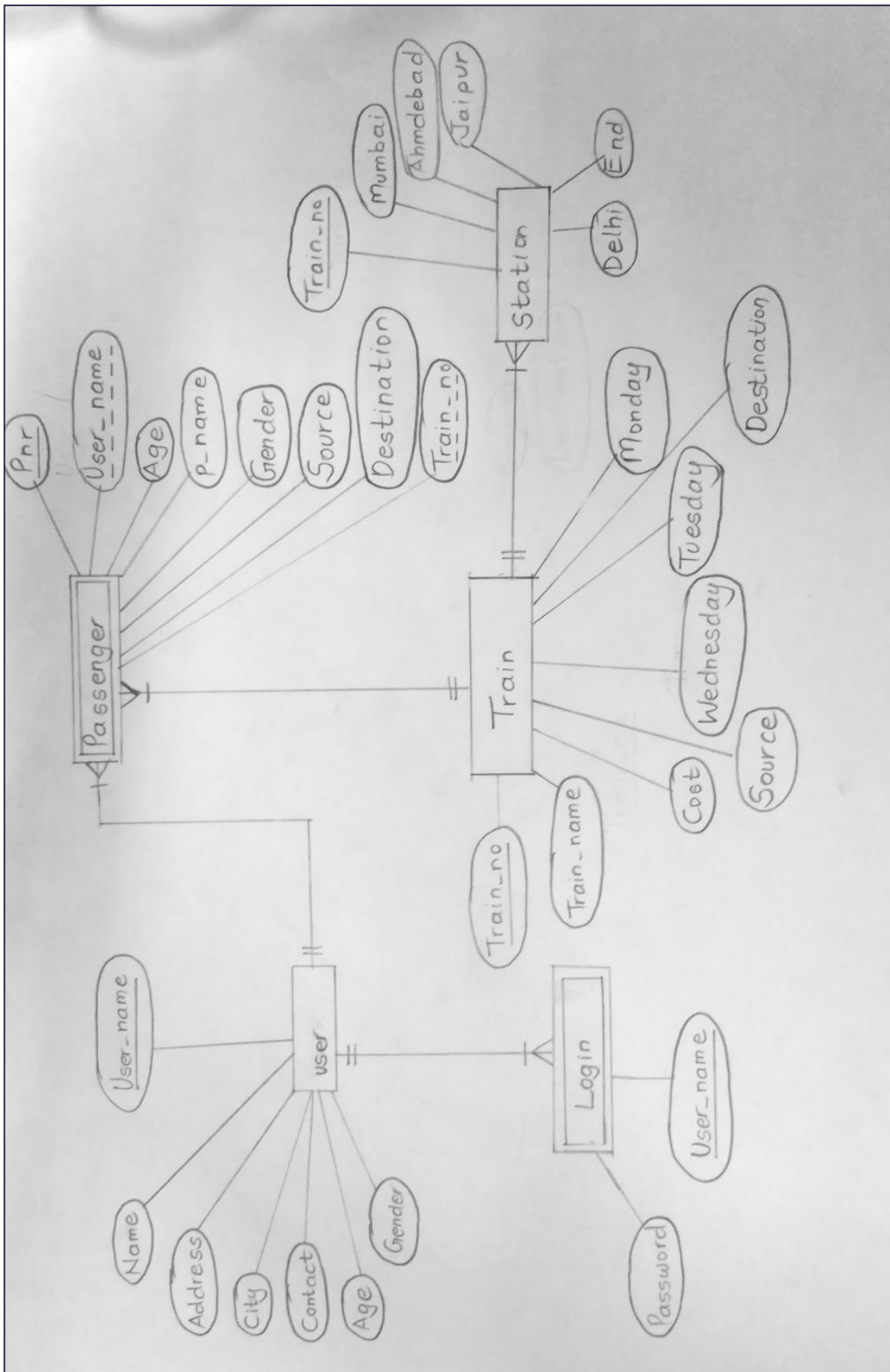
The administrator can print the details of passengers travelling through a particular train by typing the train no on the terminal and the data will be printed in a text file.

- **End User**

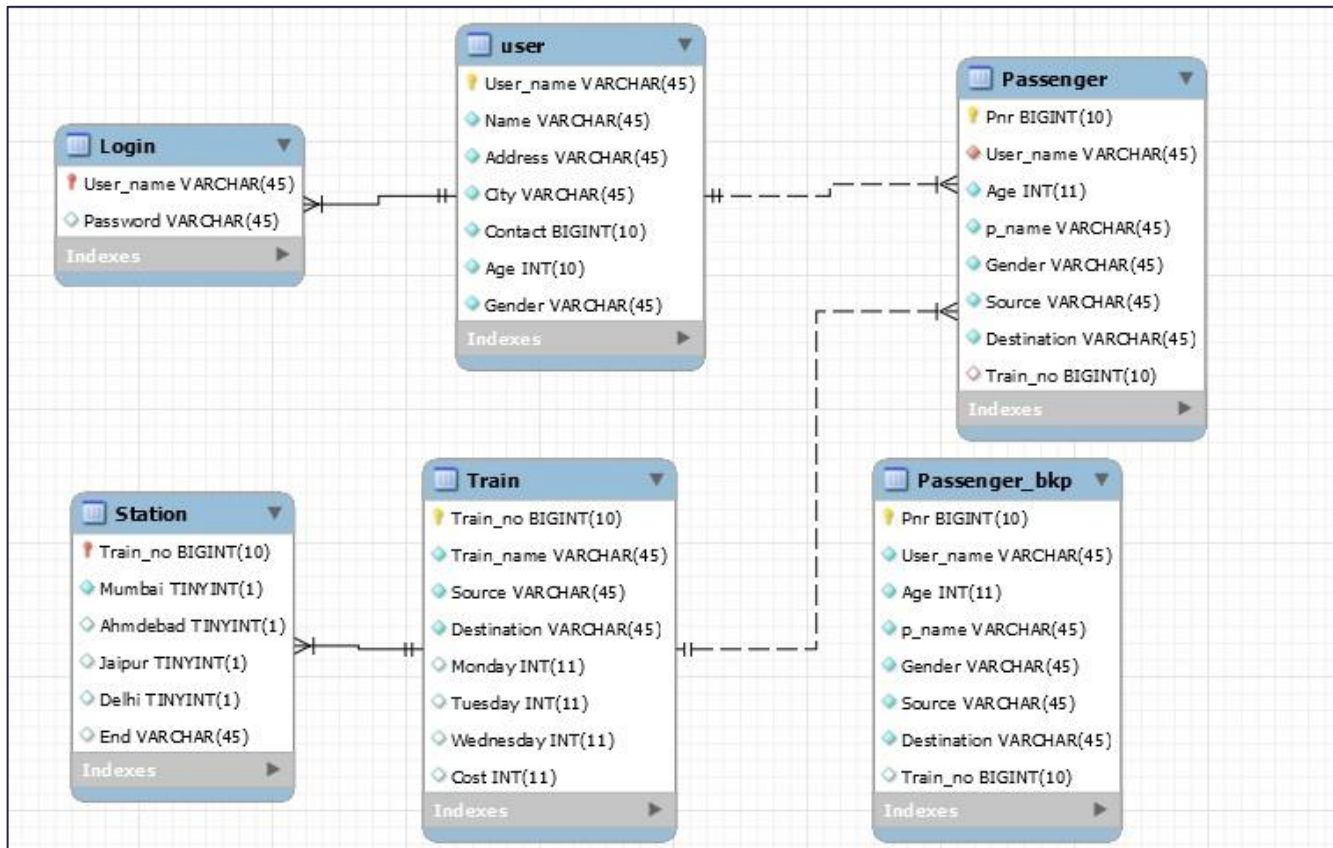
The End User logs in using the front end and can book at most 5 tickets. If the end user is not registered he can register himself by clicking the register button and then it directs him to the login page.



# ER DIAGRAM



# EER DIAGRAM



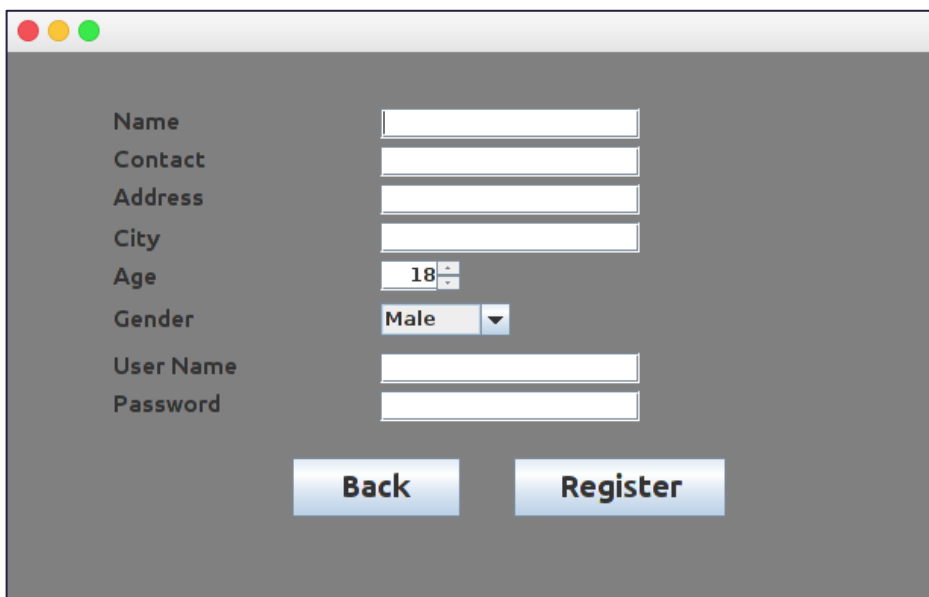
# SCREENSHOTS

- Login Page



A screenshot of a web application window titled "Login Page". The background image shows a red and white electric locomotive on a snowy railway track. The login form is positioned in the upper right corner. It includes two input fields: "Login ID" and "Password". Below these fields are two buttons: "Login" and "Sign Up". The window has a standard macOS-style title bar with red, yellow, and green window control buttons.

- Sign Up page



A screenshot of a web application window titled "Sign Up page". The background is a solid dark gray. The form is located on the left side of the window. It includes the following fields and controls: "Name" (text input), "Contact" (text input), "Address" (text input), "City" (text input), "Age" (spin box with "18" selected), "Gender" (dropdown menu with "Male" selected), "User Name" (text input), and "Password" (text input). At the bottom of the form are two buttons: "Back" and "Register". The window has a standard macOS-style title bar with red, yellow, and green window control buttons.

- Main Page

**Welcome to Ticketing System**

Source:  Destination:

Day:  No of Passengers:

- Passenger Details

Train:

**Enter Passenger Details**

Name:  Gender:  Age:

Name:  Gender:  Age:

Name:  Gender:  Age:

- Confirm Ticket

**e-Ticket Reservation**

Booked By:

Train no:  Train Name:

Source:  Destination:

**Passenger Details :**

PNR NO	Name	Gen...	Age
123457	viraj	Female	19
123458	neel	Female	16
123459	jinit	Male	19

Total Fare:

