

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, Belgaum-590018



18CSL58 - DBMS Mini Project Synopsis On

IRCTC RAILWAY RESERVATION

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

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SUBMITTED BY

SHASHIDHAR A S [1JB20CS113]

SUCHITH KUMAR G M[1JB20CS124]

5TH SEM 'C' SEC

UNDER THE GUIDANCE OF

PRAKRUTHI M K

Professor

Dept. of CSE, SJBIT



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SJB INSTITUTE OF TECHNOLOGY

**BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-560060,
KARNATAKA, INDIA.**

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ABSTRACT

Indian Railway Catering and Tourism Corporation popularly known as IRCTC is an Indian public sector undertaking that provides ticketing, catering, and tourism services for the Indian Railways.

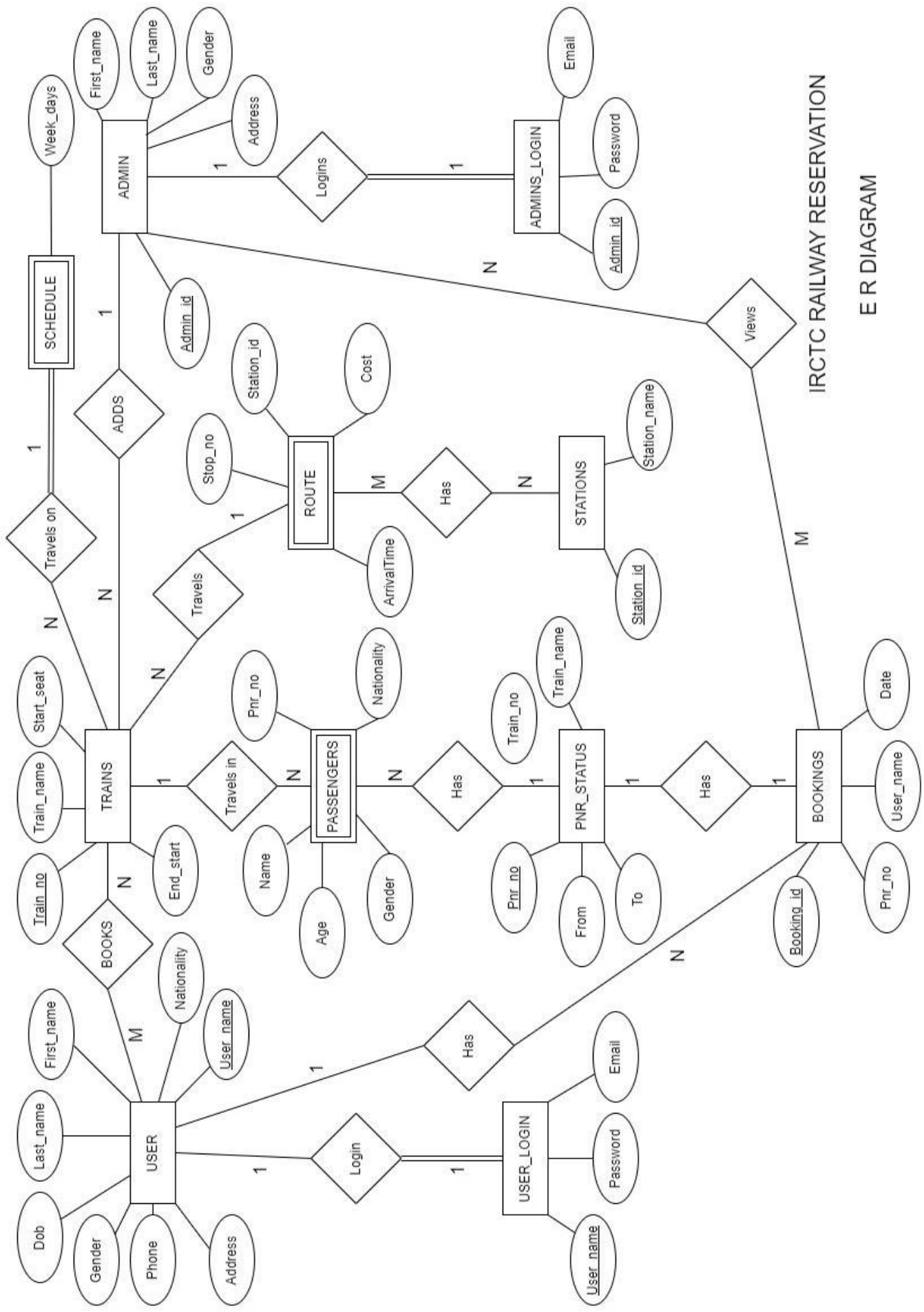
Our project "**IRCTC railway reservation**" is a desktop based stand alone application developed using java swings framework of java. This project is an attempt to demonstrate the working of railway reservation process both from the admin and user view.

This project provides various functionalities to the user where he can create his own account or login through an existing account and search the desired trains according to plan of his/her travel. The user can also book the seats to confirm his travel in the Indian Railways. Other functionalities include viewing his profile, view his previous bookings. Passengers travelling in the train are assigned a PNR number which is unique and find all the details of their journey by using the search PNR function. The user also receives a confirmation mail to his registered mail ID after booking. All the details are stored in the database which is accessed dynamically everytime to provide accurate information.

It also has an admin where the admin is authenticated using both password and OTP sent to his registered mail providing two step verification. The admin can make major changes which include adding a new train to the database.

Tools used:

1. JAVA language
2. JAVA SWINGS and AWT (Abstract Window Toolkit)
3. MySQL database (MySQL Workbench)
4. Visual Studio Code for development
5. Git and GitHub for version control management
6. Figma



IRCTC RAILWAY RESERVATION

ER DIAGRAM

IRCTC RAILWAY RESERVATION

SCHEMA DIAGRAM

