RAILWAY MANAGEMENT SYSTEM

Name: Nehal Parsekar
Roll No: 1942

INTRODUCTION

This project is about managing railway network for different cities and railway ticket booking. The project will be a web application which will manage data about the States with their stations, train routes, train schedules, trains and finally passengers as users to the application. It will have two sections namely Admin and Users.

In the Admin section admin will be able to add entities like trains, their routes, schedules, state and will be able to generate reports based on the users data from the users section.
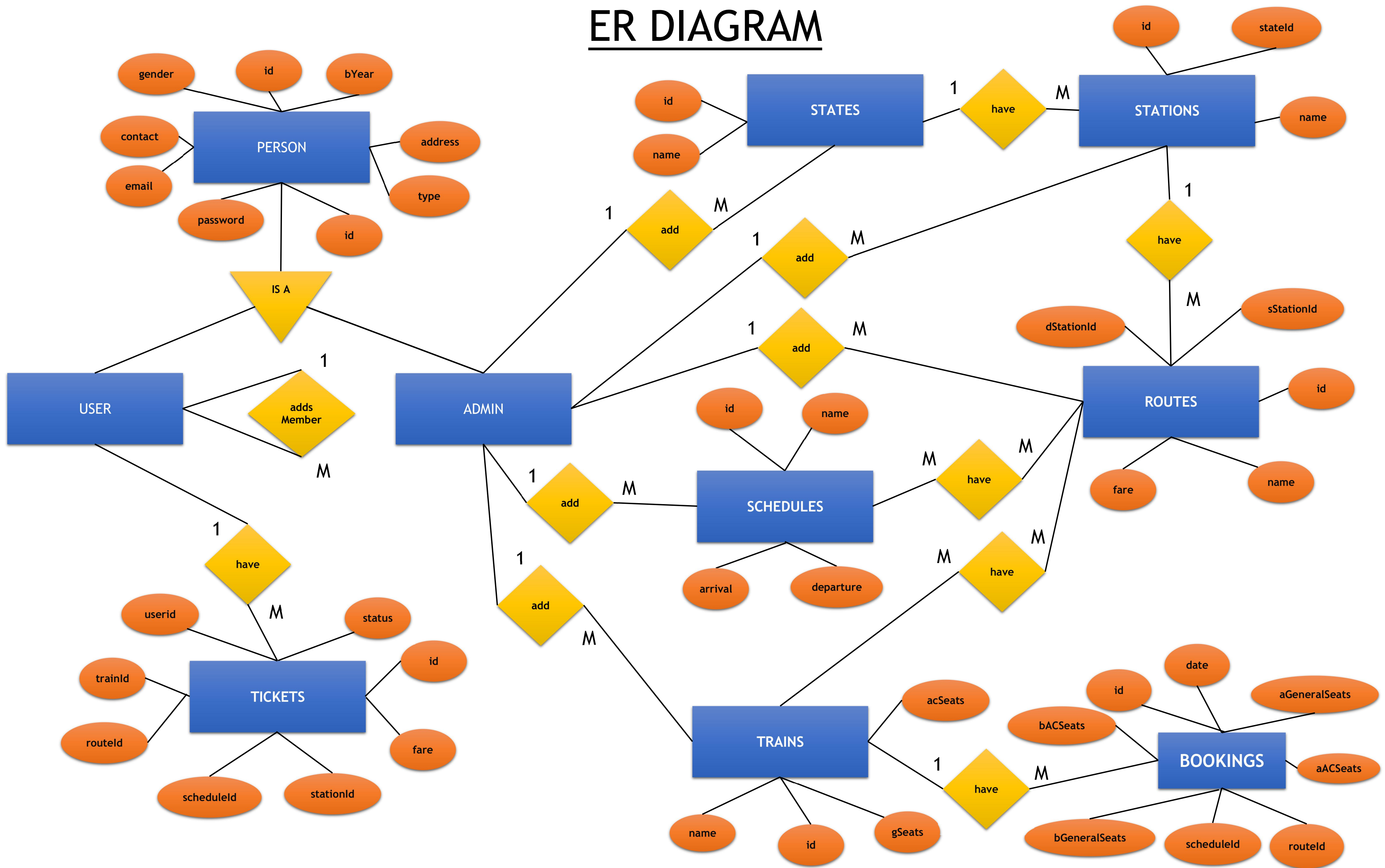
In the users section, a user will be able to book railway ticket by providing information like source and destination station within or in different cities, date and time of travel and number of tickets. The user will also be able to add members to his/her account so that he/she can book multiple tickets.
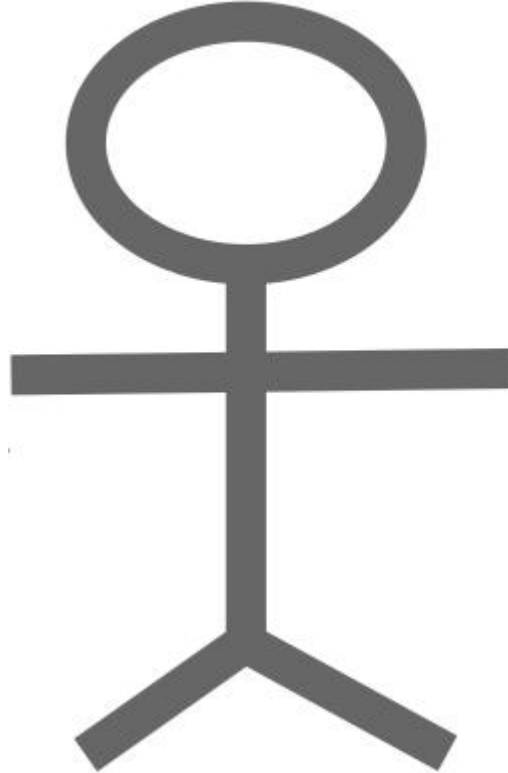
REQUIREMENTS

The web app uses HTML and CSS in the front-end and javascript at the back-end. The database is managd using MySQL server.

The app uses [NodeJS](), which is an asynchronous event-driven JavaScript runtime environment. App also uses [ExpressJS]() , which is a minimal web framework for NodeJS for developing web applications. [Bootstrap]() is used for the CSS and markup is compiled using [Handlebars]() as the view engine for Express.
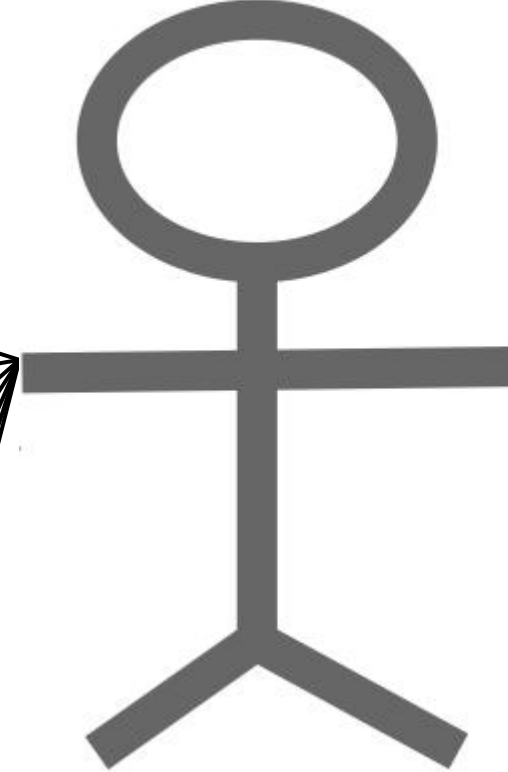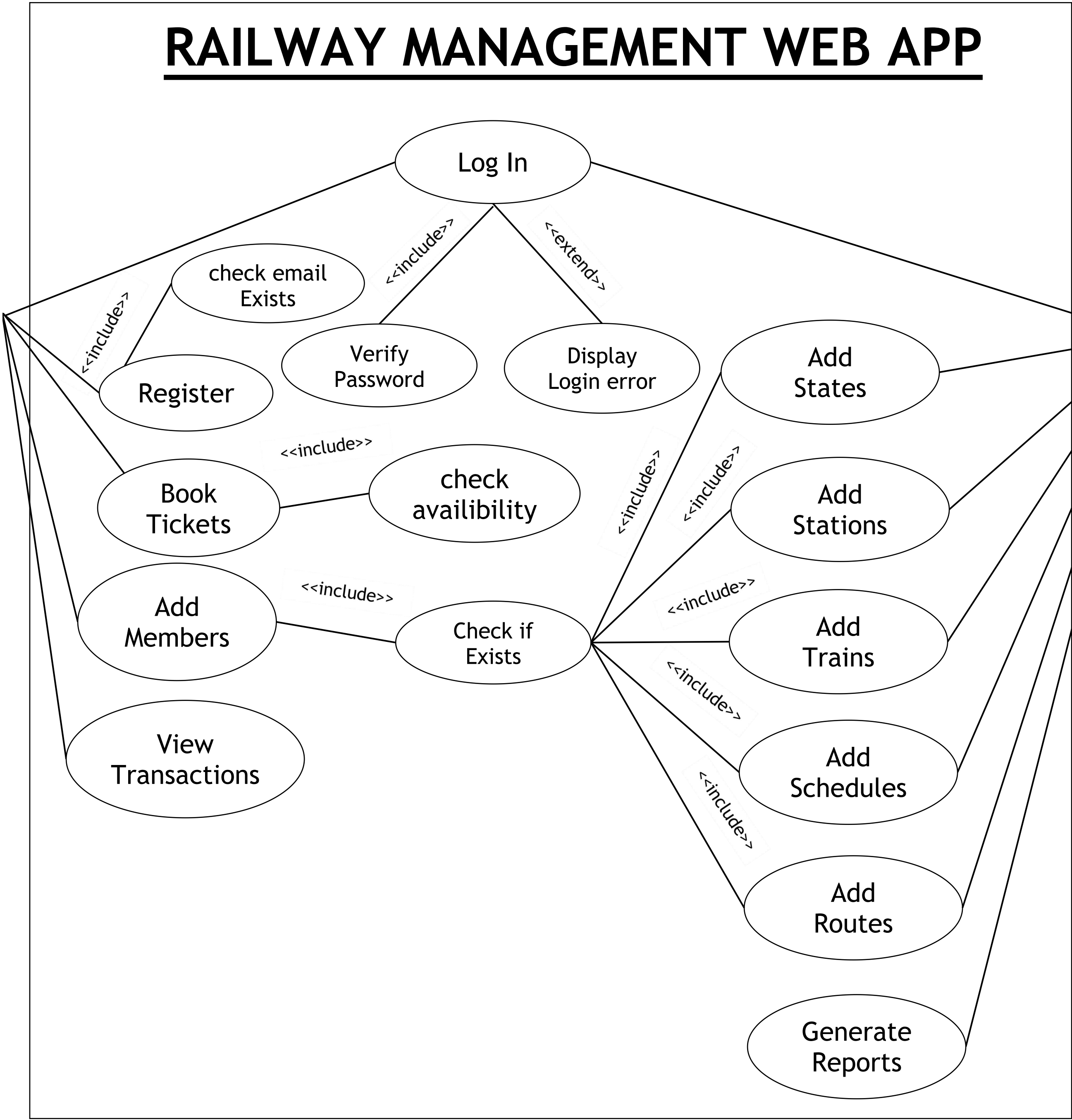
ER DIAGRAM

RAILWAY MANAGEMENT WEB APP

USER

ADMIN

Log In

check email Exists

<<include>>

<<extend>>

<<include>>

Register

Verify Password

Display Login error

Add States

Book Tickets

<<include>>

check availibility

<<include>>

<<include>>

Add Stations

Add Members

<<include>>

Check if Exists

<<include>>

Add Trains

<<include>>

Add Schedules

View Transactions

<<include>>

Add Routes

Generate Reports

RESULT

Using the application users will be able to generate different reports with the data available and inserted by the admin. With the data the users will be able to:

- Generate a document of the tickets booked.
- View transactions and generate a document of the transactions.

Admin will be able to generate reports of users with respect to the data of States, Stations, Trains, Schedules, Routes and Dates.