



North South University

Department of Electrical & Computer Engineering

Project Report

Railway Database Management System



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Railway Database Management System

Introduction:

Main objective of this report is to use the information technology in that way for this people maintain their time. This information system is regards for Bangladesh Railway. Other main points are get all the service information of the Bangladesh Railways and maintaining a central data base. The propose system is more organized system for Bangladesh Railway than the manual. The main purpose is to reduce suffering of the travelers.

Project Overview:

Railway Database Management System contains the details about train schedules and its train route, purchase ticket, purchase history etc. Passenger can easily search the train route where they want to go. Passenger can easily buy the train ticket by selecting the source station and destination Station, date and seats. So we maintaining a central data base to reduce suffering of the travelers.

Project Description:

This project is about creating the database about Railway Database Management System.

The railway database system facilitates the passengers to enquire about the trains available on the basis of source and destination, booking of tickets, enquire about the status of the booked ticket etc. and facilitates with many other things.

The aim of case study is to design and develop a database maintaining the records of different trains, train status, and passengers. The record of train includes its number, name, source, destination, and days on which it is available, whereas record of train status includes dates for which tickets can be booked, total number of seats, and number of seats already booked.

Passengers can book their tickets for the train in which seats are available. For this, passenger has to provide the desired train number and the date for which ticket is to be booked. Before booking a ticket for a passenger, the validity of train number and booking date is checked. Once the train number and booking date are validated, it is checked whether the seat is available.

If it is yes, the ticket is booked with confirm status which is stored along with other details of the passenger.

The passengers will need to register in the website to access all the things.

Admin will basically monitor and maintain the whole system.

PROJECT: Railway Database Management System

Sign Up:

Register as a new user/admin.

User/Admin needs username and new password to register.

Users/Admin must give their email ID.

Sign In:

Whenever a user/admin sign in with email and password, they will be redirected to the corresponding account home page.

There are two panel of this management system.

- User Panel
- Admin Panel

User Panel:

Dash Board:

This page acts as a dashboard for the user. It contains several information like- fare query, train information & route, purchase ticket, purchase history and contact us. If user clicks on any of this options they will be redirected to that page.

Fare Query:

Passenger can easily know the train fare by selecting the source station and destination station. Passenger can easily know the train name with price. Also passenger can see here the train ID.

Train Information & Route:

Passenger can easily see the train information, where they can see train id, train name, departure station, arrival station and departure time. They can also see the train routes, where they can see the all station names from departure to arrival station.

Purchase Ticket:

Passenger can easily buy the train ticket by selecting the source station and destination Station, date and seats. Passengers can easily log in the website Railway Database Management System to use their email id and select the station from where s/he wants to purchase their ticket and also select their destination station.

Purchase History:

Here passenger can see their purchase tickets history. They can also see their first name, last name, email, departure station, arrival station, travel date, number of seats, class and price of their ticket.

Contact Us:

If any user faces any issues like “username forgot” or “password forgot”, they can request admin for reset that. Then the admin reset their password and give them the new password. This will contain sensitive information about admin like email and contact info.

Admin Panel:

Admin Dash Board:

This page acts as a admin dashboard for the Admin. It contains several information like- set fare query, set train information, set train route, purchase history and admin profiles. If user clicks on any of this options they will be redirected to that page.

Set Fare Query:

Admin can easily set fare query for user. Admin can set train id, train name, different class price for user. For this user can see their train fare.

Set Train Information:

Admin can set the train information, like they can set train id, train name, departure station, arrival station and departure time. For this user can see the train information

Set Train Route:

Admin can set the train route, like they can set train id, train name and train route. For this user can see their train route from departure station to arrival station.

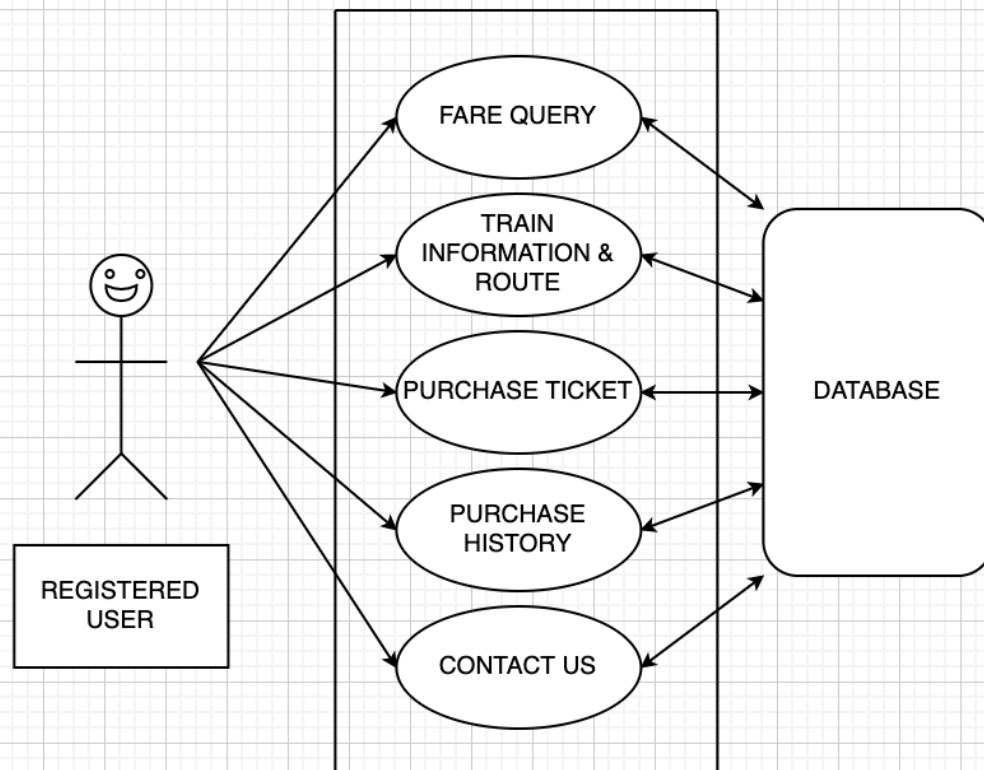
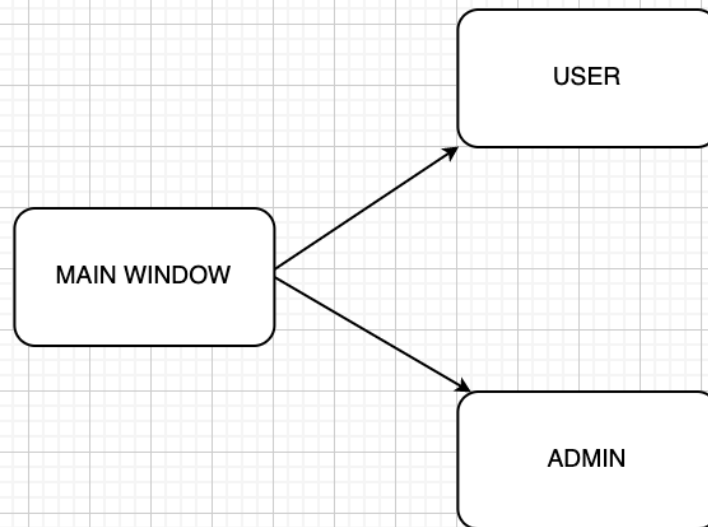
Purchase History:

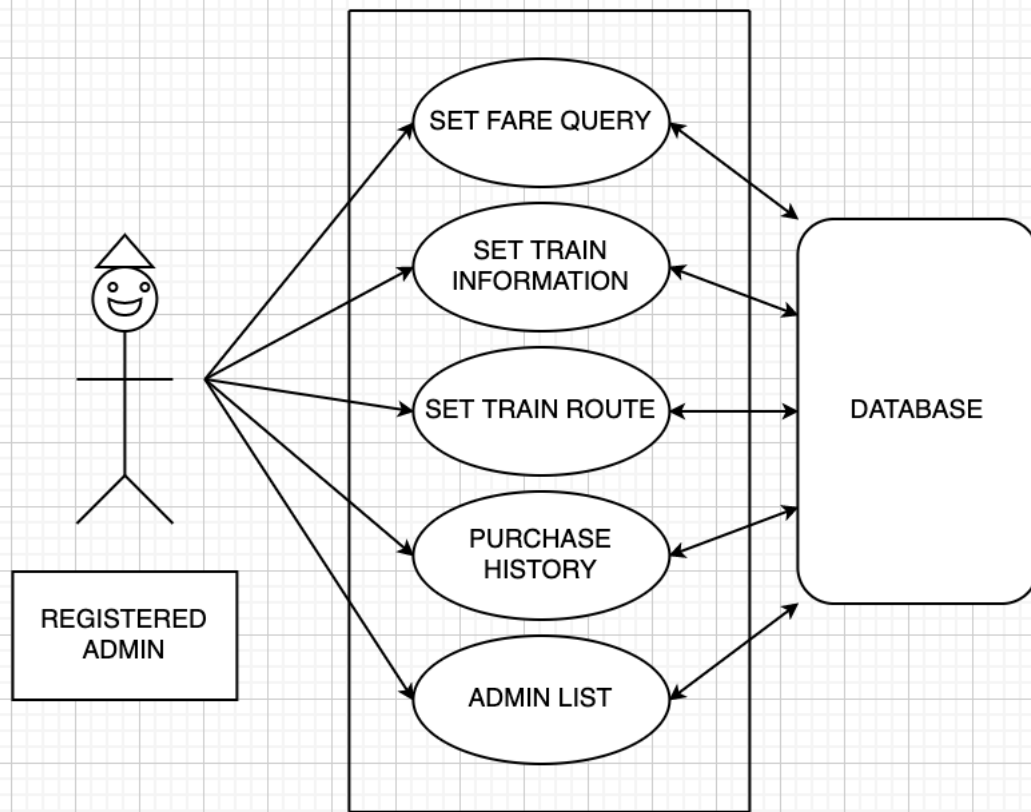
Admin can see the purchase history of passenger, like passenger first name, passenger last name, passenger email, departure station, destination station, travel date, number of seats, seat's class and price of passenger's ticket.

Admin List:

Here admin can see their information, like name, email.

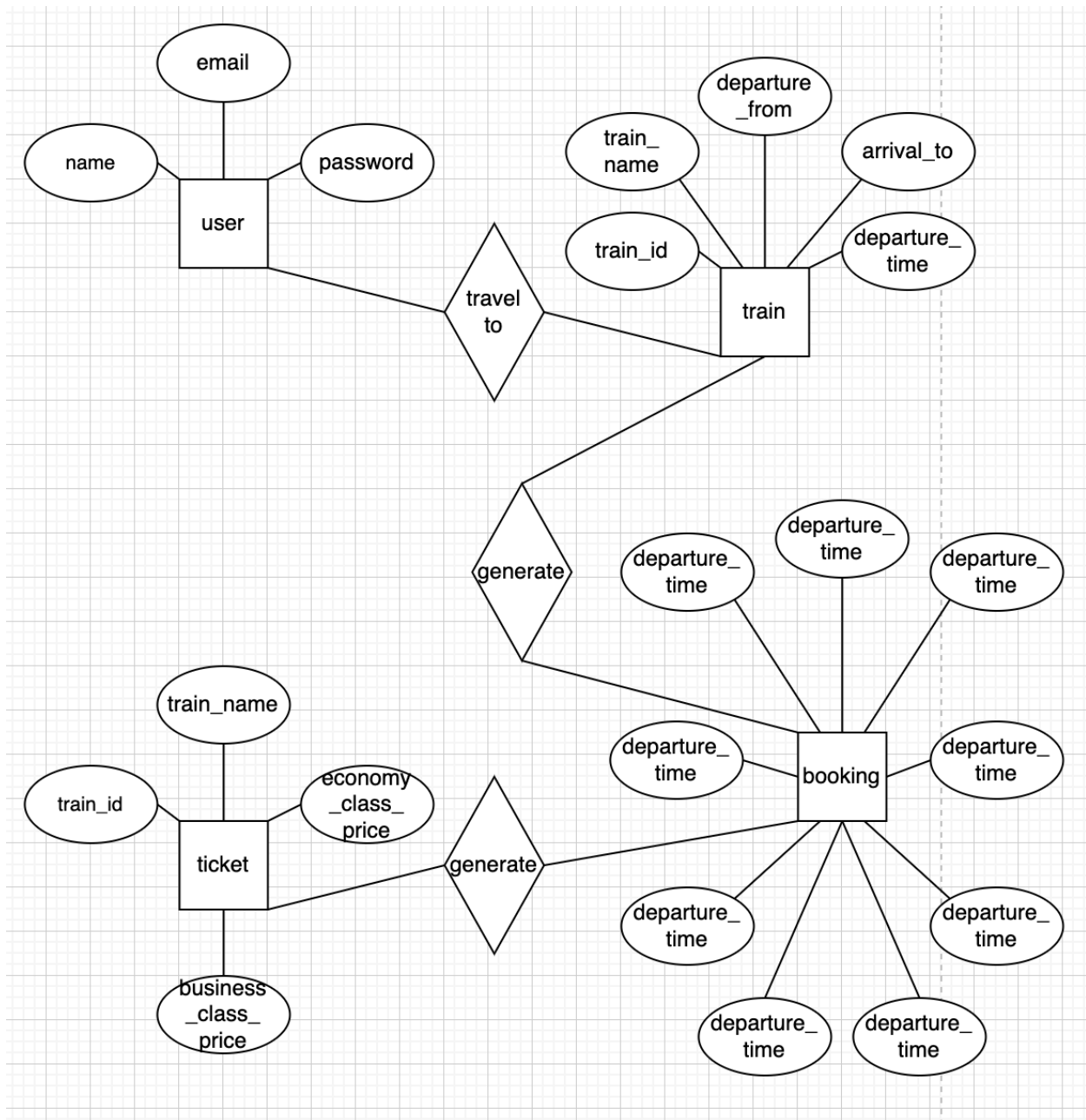
Design:

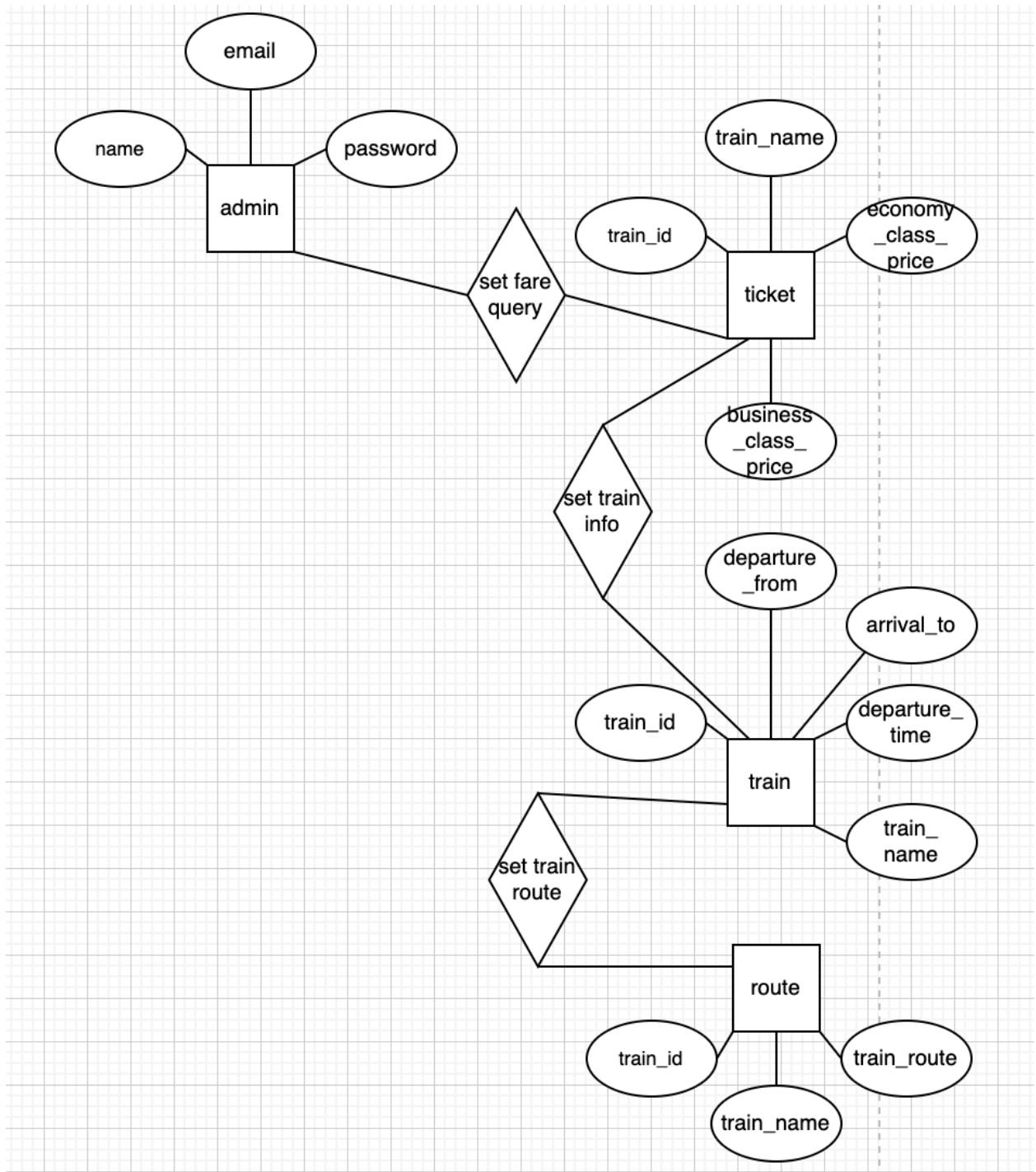




For front end design we used html and css and for connection we used php.

Diagram:





Conclusion:

Our project is railway database management system. This project is used to keep a track on reserving the seat to the passenger, fare query, train route and many other things. It helps managing the system very efficiently and conveniently.

Although the project work has been done in a complete and detailed manner but due to the constraint of time, we could not include some more features we wanted to. We left these features as a part of the feature development. As soon as we'll get time we'll try to add them in the project.

Future plan:

Due to the constraint of time we can't include some more features. But in future we will add some features in this project like GPS for tracking the train, google logging system, payment method, make an android app and many other things.