



Railway Ticket Booking System

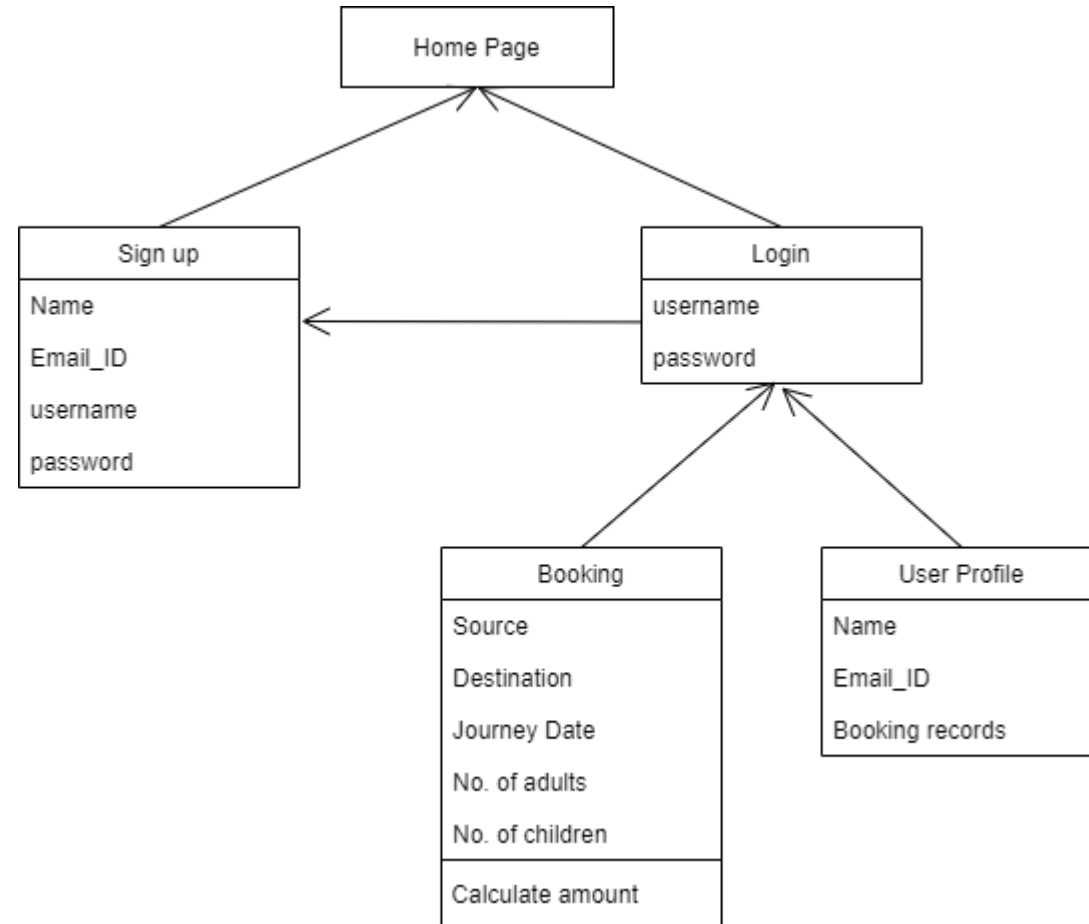
Problem statement:

- 1) The Railway Reservation System is basically developed in order to perform Online ticket reservation and inquiry. Every time a ticket is booked there must be a proper record to be maintained.
- 2) The reservation option enables a person to reserve for a ticket in an easier and efficient manner.
- 3) Once the train is available the person will be asked to enter his personal details and his requirements regarding the coach and berth.

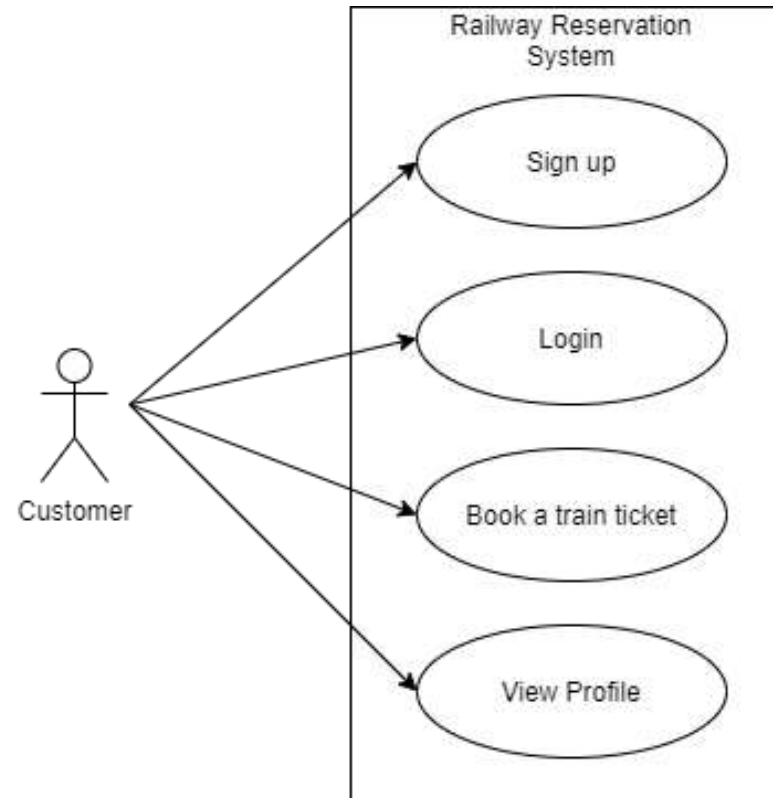
Objective:

- 1) The main objective of this System is to manage the details of users, trains, bookings.
- 2) The aim is to automate the existing manual system by the help of computerized equipments so that valuable data/information can be stored for a longer period with easy accessing.
- 3)The project provides good performance and better service to the clients.

Class diagram:



Use Case Diagram:



Database tables used:

1)Train details – Train_id, source, destination.

2)Customer details- Cust_id, name, username, password, email-id

3)Booking record- Booking_id, cust_id, train_id, source, destination, amount

OOPS concepts implemented:

1) Data abstraction:

Data abstraction is the art of representing only the essential features and hiding the background details or explanations.

For example: While customer creates new account, we ask the user for name, email, password, phone number, DOB, but we only use the important/distinguishable features.

OOPS concepts implemented:

2) Encapsulation:

Encapsulation is the wrapping up of data and functions into a single unit called class.

Each application window has its own purpose and can be used by other classes without knowing its details.

For example: Homepage will call login or signup page, but it won't know the working.

OOPS concepts implemented:

3) Modularity:

Modularity is the act of partitioning a program into individual components.

In our project we will be having around 5 individual components namely; homepage, login, signup, booking and user profile. The decomposition of the problem statement into small modules helps us to debug, reduce complexity and increase reusability of code.

OOPS concepts implemented:

4) Polymorphism:

Where an object takes more than one form.

For example: For each button clicked, we have ActionListener() function which will can either open a dialogue box or another application window, etc.

Thank You
