

The System is basically connected with the reservation and cancellation of railway tickets to the passenger. The need of this system arose because as is the known fact that Bangladesh has the large railway network in the whole world and it is not possible to handle such a large system manually. By computerizing it became possible to overcome the limitations and make the system operations more efficient. The complexity in handling data and records of such a vast system got reduced and became easier by computerizing the system.

The customer and the admin are the two parties which are allowed to have access to the database of the system and have different view level schemas to the database information.

The customers are privileged with the following services:

- Register as a customer by providing certain personal details.
- Make fresh reservation and book one or more seats (limited to 4 seats per ticket).
- View past booking and can even do cancellation of booked ticket.
- See trains between a pair of stations, check seat availability in trains and get the fare details.

Administrator is privileged with the following services:

- Login as the master user using a master password
- Add train, station and route
- See user and passenger details and can even delete their profiles after which the user will not be able to login to the system as a user.

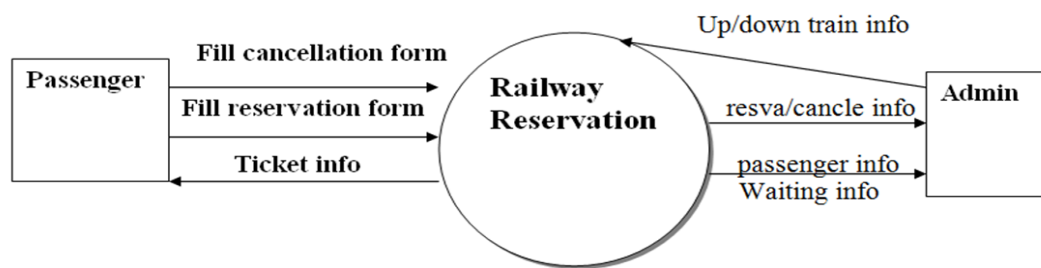
The system's security has been kept into consideration well. The database of the system cannot be accessed by any user either admin or customer without being authenticated by correct username and password.

List of Entity types:

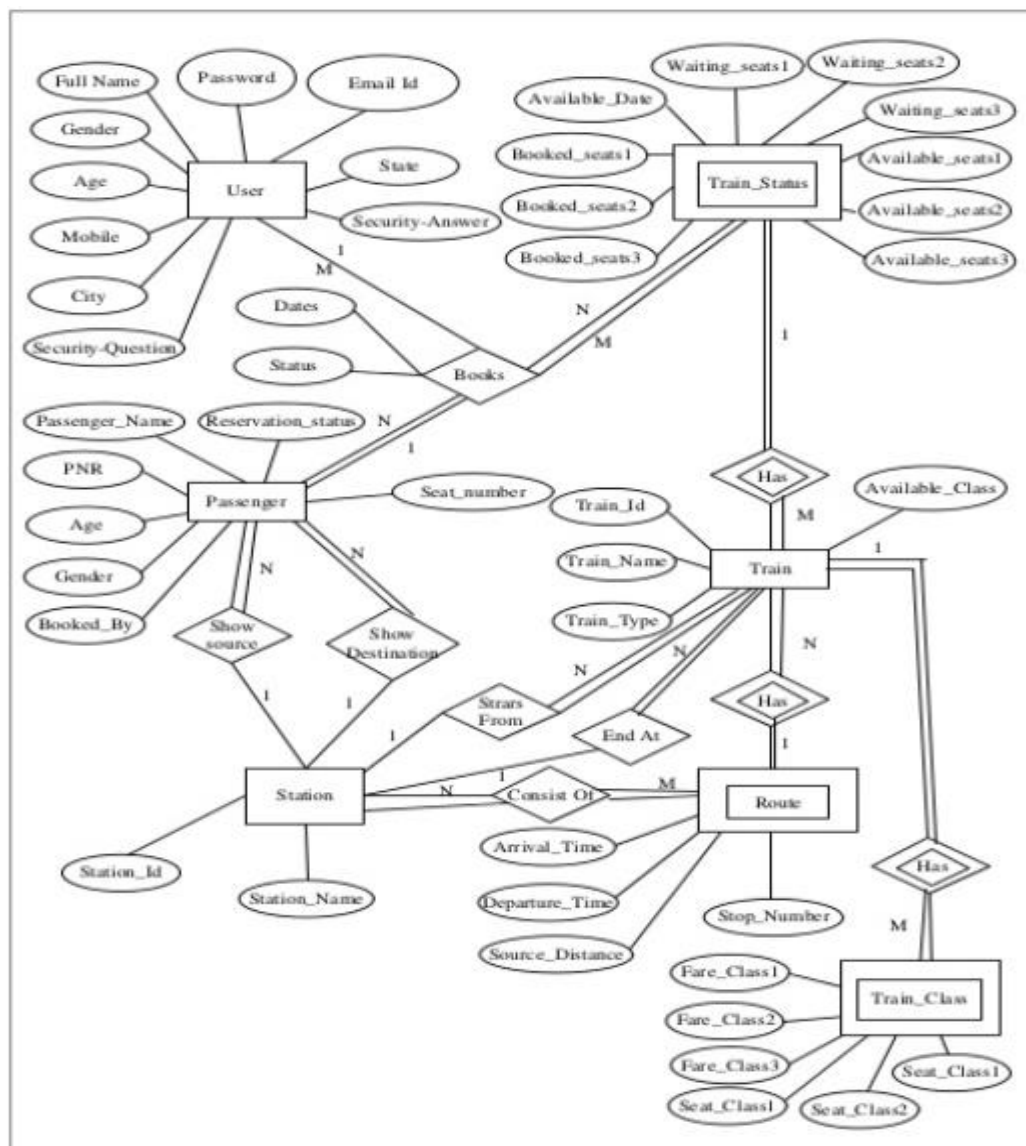
S.no	Entity	Attribute
1	User	Email_Id , password, Full name, Gender, Age, Mobile, City, State
2	Passenger	Passenger name, Age, Gender, Reservation status, Booked By
3	Train	Train Id, Train Name, Train Type, Available Days, Seat Available
4	Route	Source_distance, stop_number, Arrival_time, Departure_time
5	Station	Station Id, Station Name.
6	Train - Status	Available Date, Booked seats 1, Waiting Seats 1 Available Seats 1, Booked seats 2, Waiting Seats2 Available Seat, Booked seats 3, Waiting Seats 3

List of Relationships:

S. no	Relation Type	Entity Types Involved
1	Enquires	User, Train
2	Consists of	Station, Route
3	Checks	User , Train _ Status
4	Has	Train ,Route
5	Starts from / Ends on	Train , Station
6	Assigns	User , passenger



Entity Relationship Diagram



Home Page:



BANGLADESH RAILWAY

Homepage	About	Admin	Search	Contact	
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USER LOGIN HERE

USER SIGN IN HERE

User Name:

Password:

☐ Remember me next time.

SIGN IN

New User SignUp Here



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User Login Page:

USER LOGIN HERE

USER SIGN IN HERE

User Name:

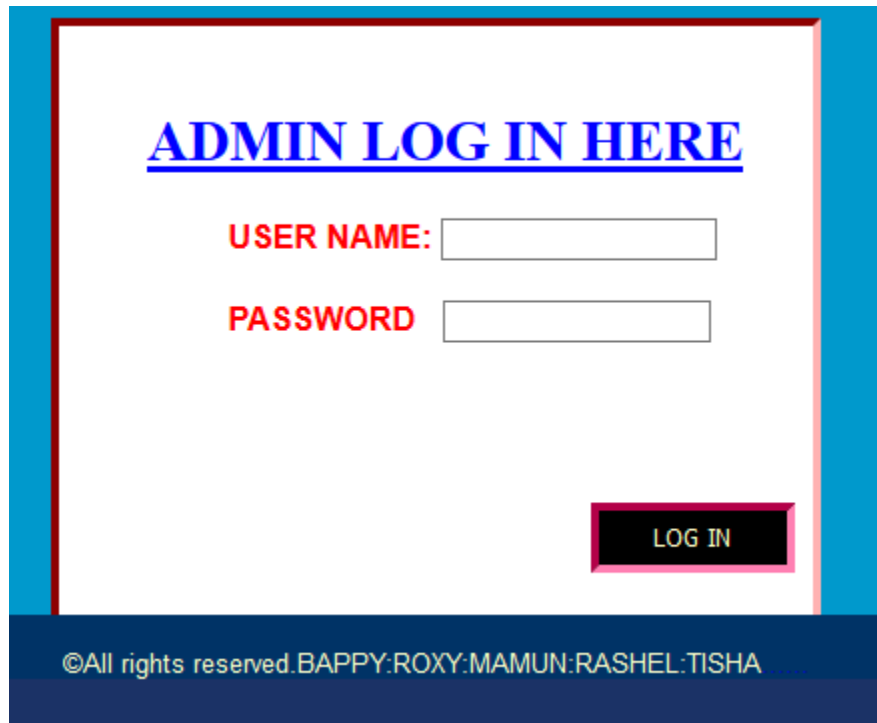
Password:

☐ Remember me next time.

SIGN IN

New User SignUp Here

Admin Login page



The Admin Login page features a central white box with a blue border. Inside, the text "ADMIN LOG IN HERE" is displayed in blue, underlined, and bold. Below this, the labels "USER NAME:" and "PASSWORD" are in red, each followed by a white input field. A black "LOG IN" button with a pink border is positioned at the bottom right of the white box. The entire page is framed by a blue border, and a dark blue footer at the bottom contains the copyright notice "©All rights reserved.BAPPY:ROXY:MAMUN:RASHEL:TISHA" in white.

ADMIN LOG IN HERE

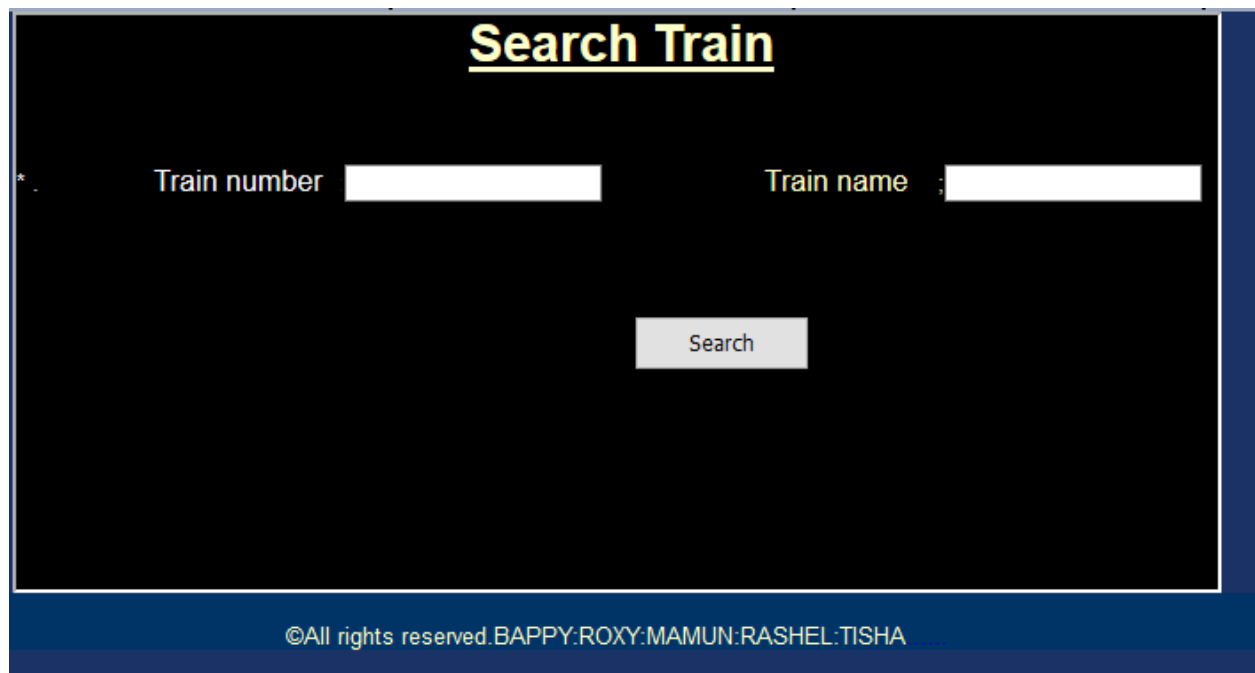
USER NAME:

PASSWORD

LOG IN

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Train Search:



The Train Search page has a black background with a blue border. At the top, "Search Train" is written in yellow, underlined, and bold. Below this, the labels "Train number" and "Train name" are in yellow, each followed by a white input field. A grey "Search" button is centered below the input fields. The page is framed by a blue border, and a dark blue footer at the bottom contains the copyright notice "©All rights reserved.BAPPY:ROXY:MAMUN:RASHEL:TISHA" in white.

Search Train

* **Train number** **Train name**

Search

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User Registration Page:

1111

Sign Up for Your New Account

User Name:

Password:

Confirm Password:

E-mail:

Security Question:

Security Answer:

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Ticket Reservation:



Bangladesh Railway

HOME RESERVATION CANCELLATION SEARCH

Logout


From

Towards

Enter the train number

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Ticket Cancellation:



HOMERESERVATIONCANCELLATIONSEARCH

Logout

Ticket Cancellation

ENTER PNR: ENTER NAME: vjin

ENTER DATE:

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Admin Control Page:

HomeAddDeleteLogout

Add New Train

Train Name:

Train Number:

From:

To

Date:

Time:

FC:

AC3:

AC2:

Sleeper:

Add Train Details

Train Name:

Train Number:

Station:

Time:

Station Code:

ADD

CLEAR

The main aim of developing Reservation system is to provide all information that is required by the users. User friendliness is a must that is the user must get the details without complicated searching procedures