

**Lab report: Train Ticket Booking System****Table of Contents**

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## 1) ABSTRACT:

Train Ticket Booking System is online ticket booking system. The basic source of Train Ticket Booking System is getting information in online from anywhere. Also knowing about Train Details, Train Schedule, Train Bogie, Booking etc. This ticket system will help the passengers book their tickets for their journey. To doing the booking user must have the unique user name and password. If they are not login before they also sign up and then login. The project contains All the information about Train Ticketing System and there are also some limitation but it does not matter.

In this project, people checkout available seats, fare information on real time basis. Get Train Tickets from the comfort of their home. Also Book train tickets from anywhere the robust ticketing platform exclusively built to provide the passengers with pleasant ticketing experience. Now-a-days it becomes very easier than ever before. User can easily sign-in and sign-up from anywhere and also get ticket easily.

In our country, there are many booking system for traveling. But it is the best booking system as far as possible. This project have many data and relationships. As like User, Admin, Train Details, Train Schedule, Train Bogie, Booking etc. They are all entities and create relation between one another. To creating this project, database is creating most important (ticket\_train) which is project database name.

## 2) INTRODUCTION:

Database is an organized collection of data. The data is typically organized to model aspects of reality in a way that support processes requiring information. A DBMS makes it possible for users to create, read and update data in a database. The DBMS essentially serves as an interface between the database and users or applications programs, ensuring that is consistently organized and remains easily accessible. The DBMS manages three important things: the data, the database engine that allows data to be accessed, locked and modified and the database schema, which define the database's logical structure. These three foundational elements help provide concurrency, security, data integrity and uniform administration procedures.

Train travel as one of the most important means of traveling, has played an important role in the travel system in our country. With rapid people development, the train ticket and passengers have been increasing year by year in the country. With such a huge user base, buying train tickets problem has been very prominent. The electronic commerce could solve the problem of train ticketing. Introduced a new online ticketing system is not only technological innovation, but also will improve the train services, to a certain extent, solve the difficult problem of online ticketing.

This project will give us the information about Train Ticket System.

This system is basically concerned with the booking and get benefits of Train Tickets to the passengers. To be more specific, our system is limited in such a way that a train starting from a particular source will have a single destination.

The basic functions being performed by our system are booking and get information.

Users can find the proper and correct information about the train and shows the

- ❖ It booking seats for the passenger.
- ❖ It contains information about the trains.
- ❖ It contains information about the Total Seat Availability.
- ❖ Train Schedule table.
- ❖ Train Details table.
- ❖ Train Bogie table.
- ❖ Booking System.
- ❖ Train Ticket booking.
- ❖ Booking Train Ticket fare.
- ❖ Train between two stations.

From those information, users can easily booking tickets anywhere. It will help travel for people. In this activity, people will access the train web site and will open a user account by registering themselves on the site. People will then use this account to book a Train Ticket that people have made.

**Note:** People will need to create a User ID (account) for themselves before people can register and start accessing User account if people do not have one already.

### 3) WORKING PROCEDURE:

#### ☞ Admin Panel:

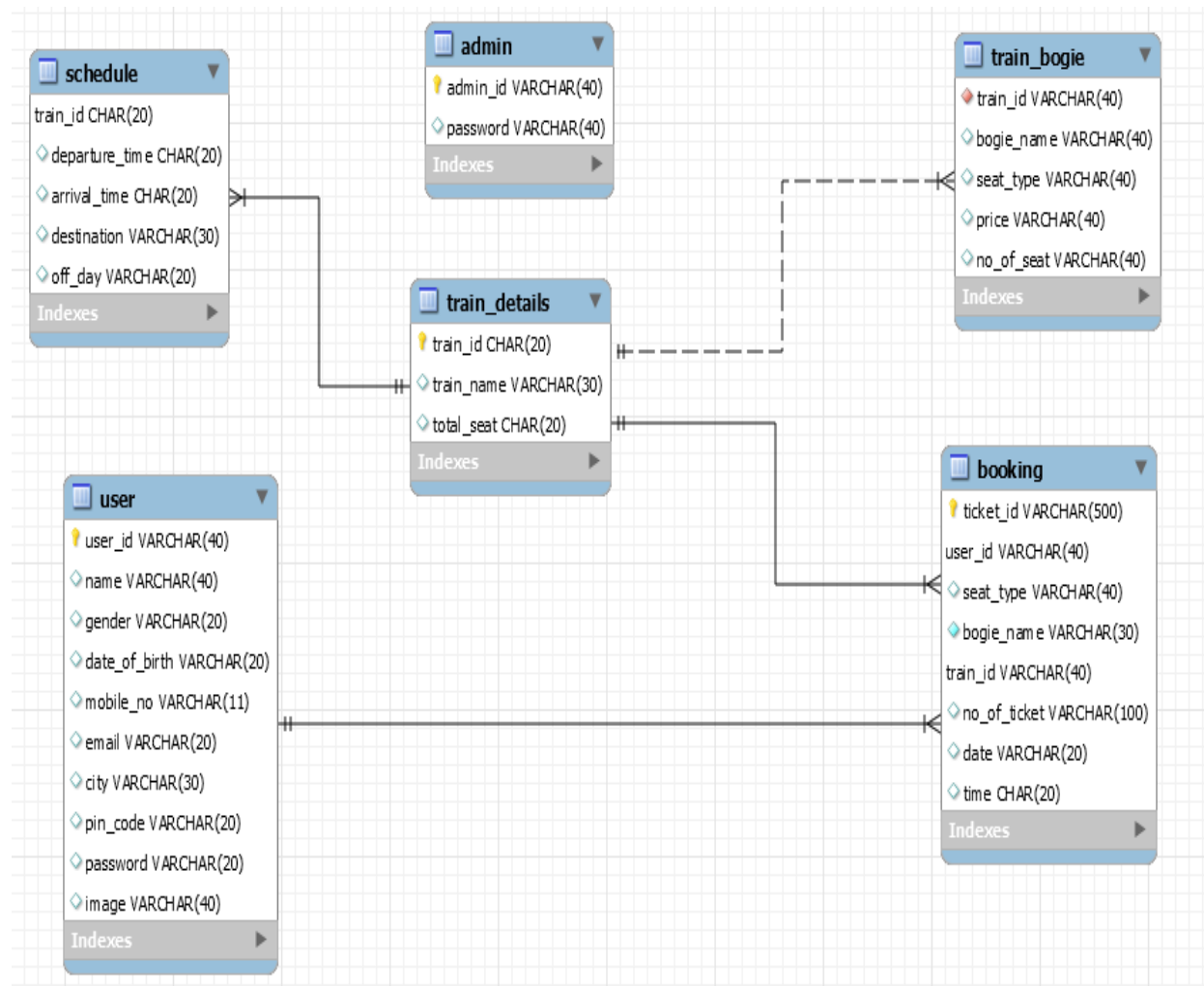
- Admin can add new User records.
- Admin can Login and also changed previous password.
- Admin can see the list of User Details.
- Only admin can edit and update the record of the users.
- Admin can add new Train records.
- Admin can see the list of Train Details.
- Admin can add Schedule for new train records.
- Admin can see the list of Train Schedule.
- Admin can add new Train Bogie records.
- Admin can see the list of Train Bogie.
- Admin can also see the list of Booking Information from user-booking.

#### ☞ User Panel:

- User can Registration or Signup.
- User can Login and also changed previous password.
- User can see Train Details.
- User also see Train Schedule.
- User can see Train Bogie.
- User can Booking Ticket to see all details of Train.
- User can see all information about Train.
- User can see Ticket details.

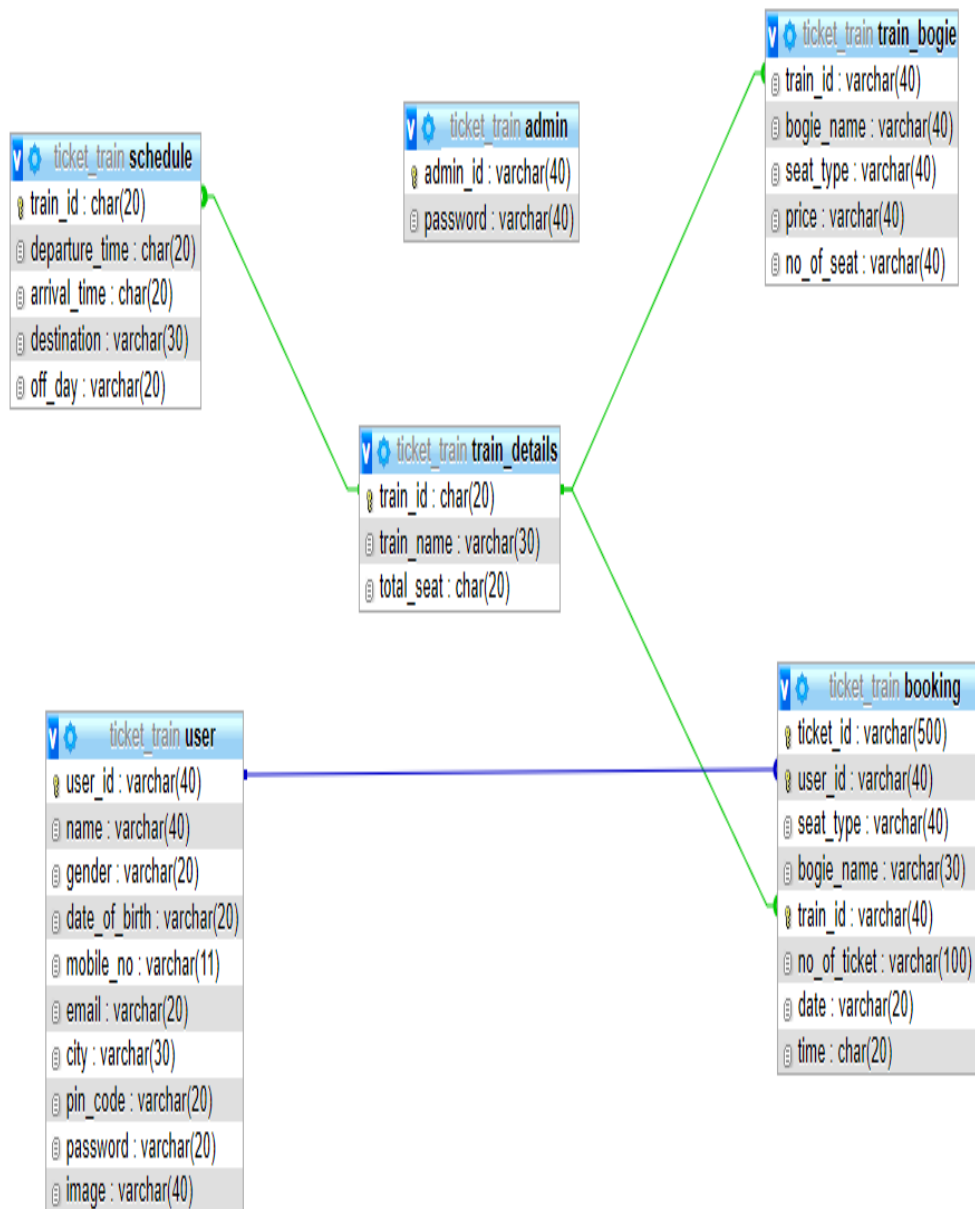
#### 4) DATABASE DESIGN:

##### ◆ E-R DIAGRAM:



**Figure: ER-Diagram**

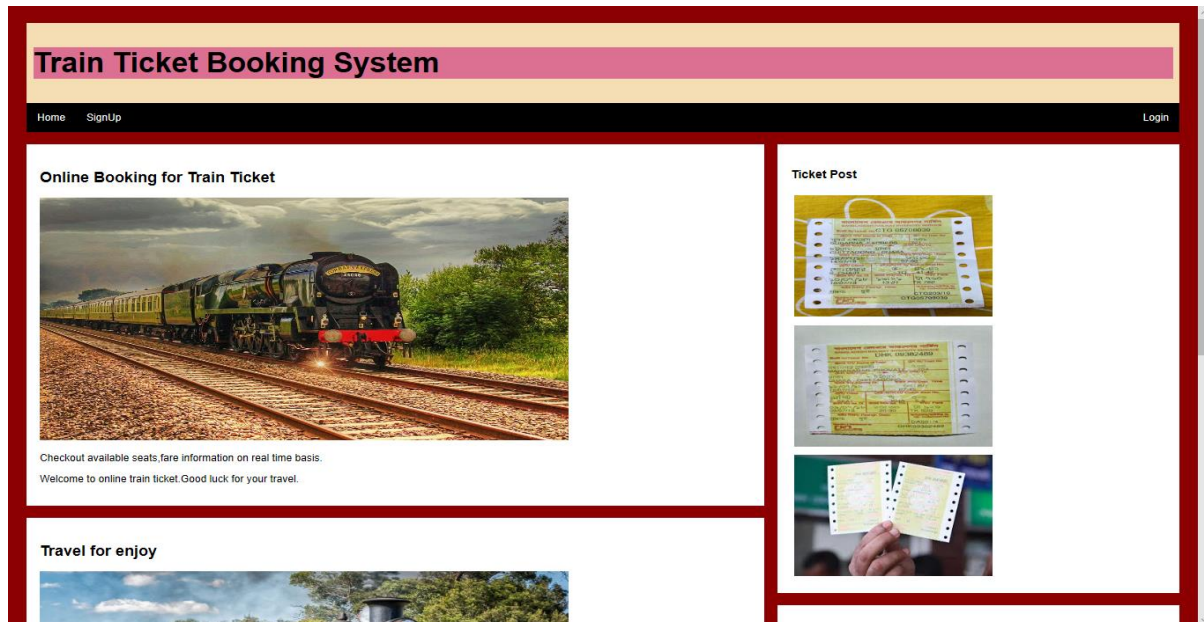
## ◆ RELATIONAL SCHEMA:



**Figure: ER-Diagram into Relational Schema**

## 5) SYSTEM OUTPUT:

### Home Page



**Figure: Home page**

### User Registration Form | Sign up

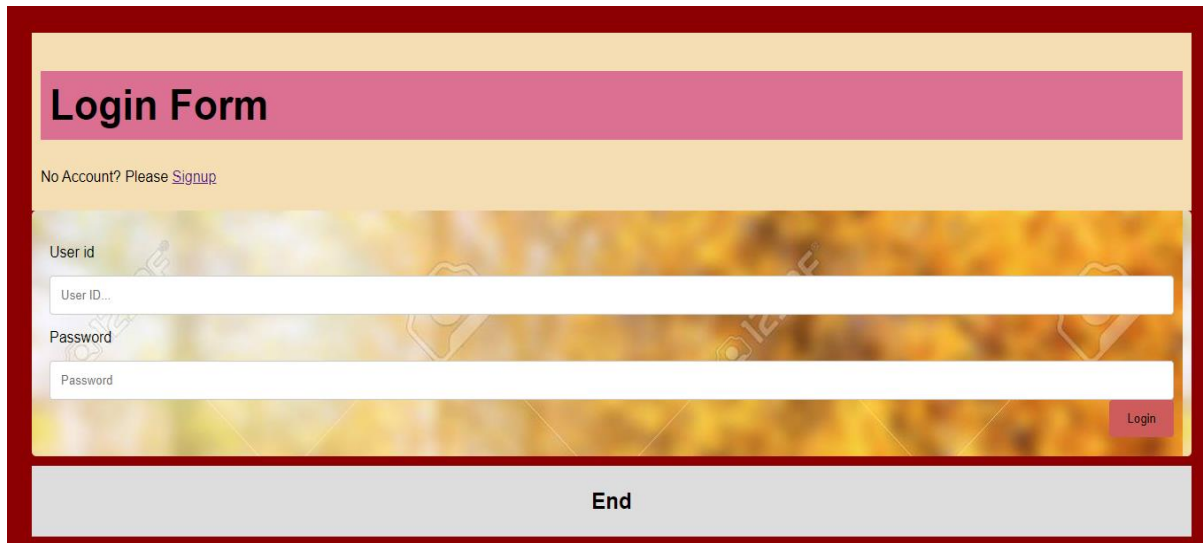
The screenshot shows the 'User Registration Form' or 'Sign Up' page. The header is a pink bar with the title 'User Registration Form'. Below it is a black navigation bar with 'Home' and 'SignUp' links on the left, and 'Login' on the right. The main content area has a red background with a yellow and orange pattern. It features a 'Sign Up' title in the center. Below the title is a form with the following fields: 'User ID' (text input), 'Name' (text input), 'Gender' (radio buttons for Male and Female), 'Date of Birth' (text input with a date picker), 'Mobile No.' (text input), 'Email' (text input), 'City' (dropdown menu with 'Dhaka' selected), 'Pin code' (text input), 'Password' (text input), and 'Image' (file upload button). A 'Submit' button is at the bottom right. The page has a red border.

localhost/train/signup.php

**Figure: User Registration Form | Signup**



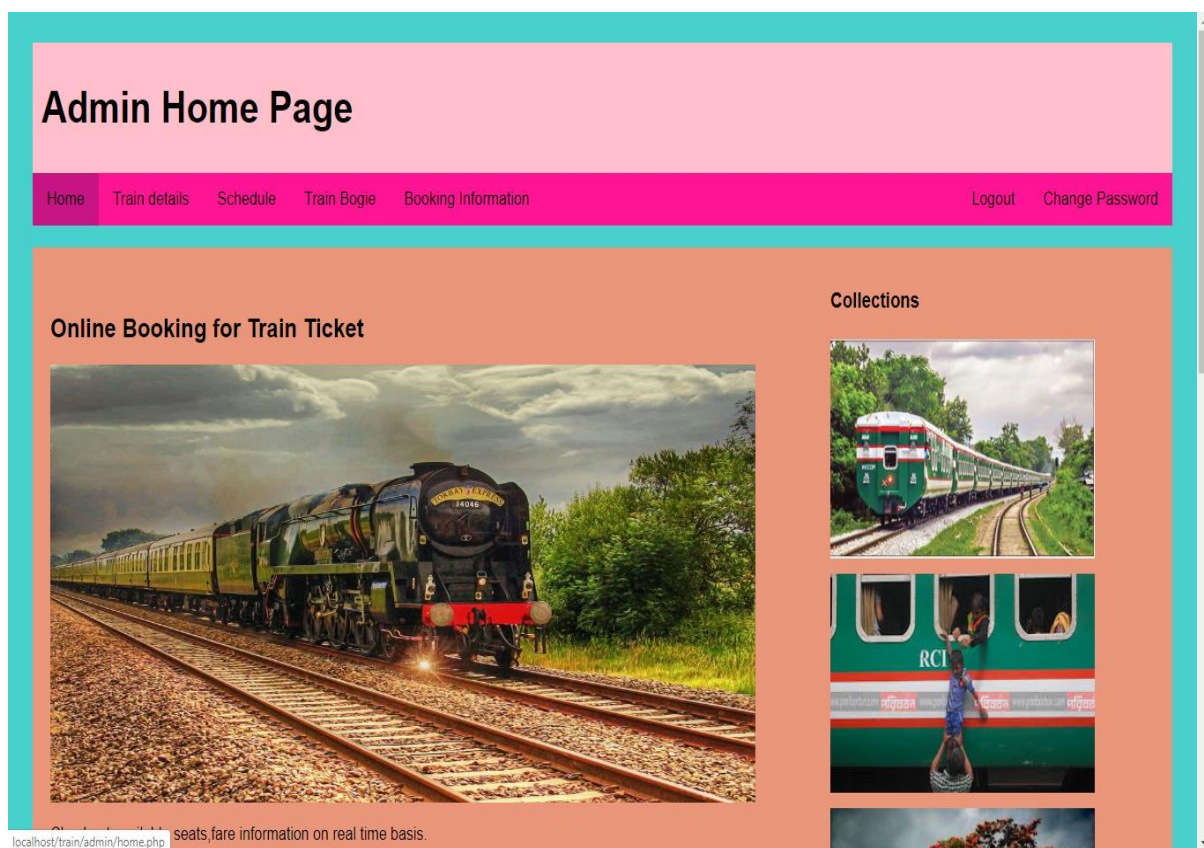
## Login Form | Users and Admin



The login form is titled "Login Form" in a pink header. Below the header, there is a link "No Account? Please [Signup](#)". The form contains two input fields: "User id" with a placeholder "User ID..." and "Password" with a placeholder "Password". A "Login" button is located to the right of the password field. The form is set against a background image of a train. At the bottom of the form, there is a grey bar with the text "End".

**Figure:** Login Form | Users and Admin

## Admin Home Page



**Figure:** Admin Home Page



## Admin Home page | Train Details

### Admin Home Page

[Home](#) [Train details](#) [Schedule](#) [Train Bogie](#) [Booking Information](#) [Logout](#) [Change Password](#)

#### Add New Train details

Train ID

Train id..

Train Name

Sonar Bangla Express

Total Seat

Total Seat..

Submit

End

localhost/train/admin/train\_details.php

**Figure:** Admin Home page | Train Details

## Admin Home page | Schedule

### Admin Home Page

[Home](#) [Train details](#) [Schedule](#) [Train Bogie](#) [Booking Information](#) [Logout](#) [Change Password](#)

Train ID	Train Name	Total Seat
1-01	sonar bangla express	45
1-02	subarna express	55
1-03	mohansagar provali	60
1-04	kurma express	35
1-05	karmaphuli express	25
1-06	chittagong mail	20
1-07	sonar bangla express	60
1-08	subarna express	55
1-09	mohansagar provali	60
1-10	kurma express	35
1-11	karmaphuli express	25
1-12	chittagong mail	20

#### Schedule for New Train Details

Train ID

1-01

Departure Time

Your arrival time..

Arrival Time

Your departure time..

Destination

Chattogram to Dhaka

OFF Day

Saturday

Add

End

http://localhost/train/admin/schedule.php

**Figure:** Admin Home page | Schedule

## Admin Home page | Train Bogie

**Admin Home Page**

Home Train details Schedule **Train Bogie** Booking Information Logout Change Password

**Train Bogie**

Train ID  
t-01

Bogie Name  
A

Seat Type  
Shavon

Price  
Price..

Number of Seat  
Number of Seat..

Submit

End

http://localhost/train/admin/train\_bogie.php

**Figure:** Admin Home page | Train Bogie

## Admin Home page | Booking Information from All Users

**Admin Home Page**

Home Train details Schedule Train Bogie **Booking Information** Logout Change Password

Select a DATE  
2019-12-08

OK

Ticket ID	User ID	Seat Type	Train ID	Number of Ticket	Time
ticket-66	u-65	first seat ac	t-07	2	02:29

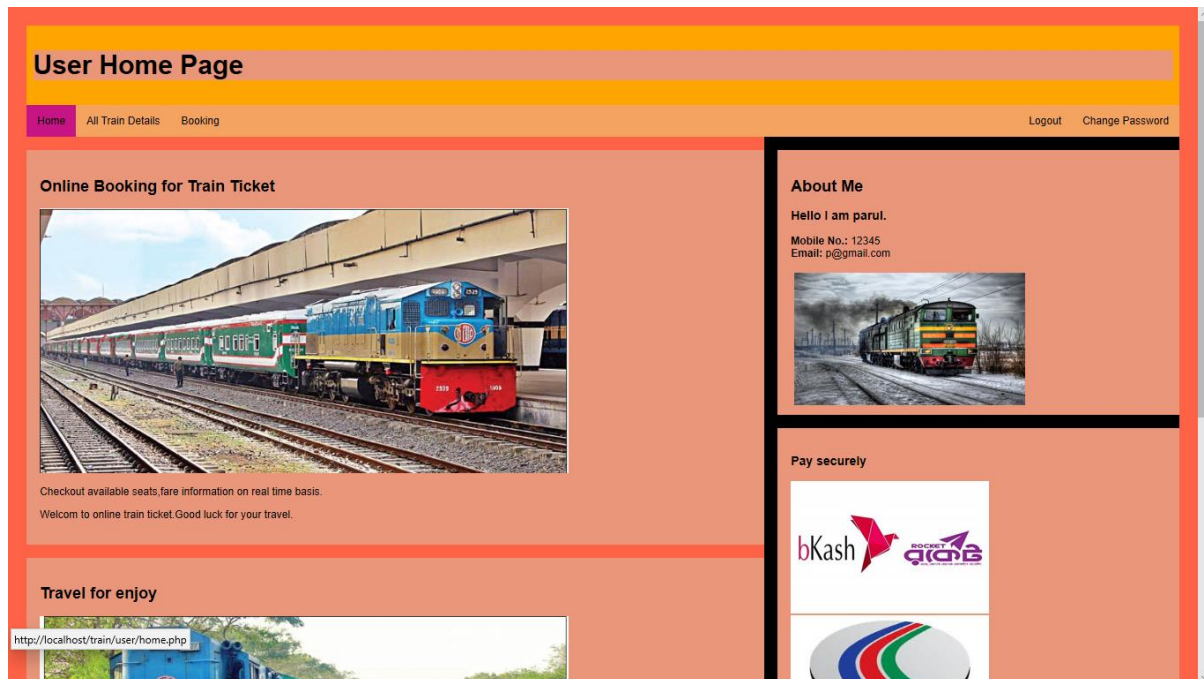
**Booking Information**

Ticket ID	User ID	Seat Type	Train ID	Number of Ticket	Date	Time
ticket-11	u-66	cabin	t-01	2	2019-12-08	11:53
ticket-17	u-01	second seat non-ac	t-11	1	2019-12-08	03:03
ticket-19	u-66	second seat non-ac	t-01	2	2019-12-08	11:54
ticket-23	u-97	second seat non-ac	t-01	2	2019-12-07	08:37
ticket-45	u-32	second seat non-ac	t-06	2	2019-12-11	12:01
ticket-54	u-01	cabin	t-05	2	2019-12-08	02:51
ticket-57	u-01	first seat ac	t-07	1	2019-12-08	08:30
ticket-59	u-01	second seat non-ac	t-04	3	2019-12-11	11:42
ticket-66	u-65	first seat ac	t-07	2	2019-12-13	02:29
ticket-68	u-02	cabin	t-09	2	2019-12-11	11:59
ticket-71	u-00	Shavon	t-06	2	2019-12-01	11:00

http://localhost/train/admin/bookinginfo.php

**Figure:** Admin Home page | Booking Information from All Users

## User Home Page



**Figure: User Home page**

## User Home page | All Train Details

User Home Page

Home

All Train Details

Booking

LogoutChange Password

Train details

Train ID	Train Name	Total Seat
i-01	sonar bangla express	45
i-02	subarna express	65
i-03	mohanager privali	60
i-04	kuma express	35
i-05	karnaphuli express	25
i-06	chittagong mail	20
i-07	sonar bangla express	60
i-08	subarna express	65
i-09	mohanager privali	60
i-10	kuma express	35
i-11	karnaphuli express	25
i-12	chittagong mail	20

Schedule

Train ID	Departure Time	Arrival Time	Destination	OFF Day
i-01	07:00	12:30	dhaka to chittagong	saturday
i-02	15:00	21:00	dhaka to chittagong	no
i-03	21:00	04:00	dhaka to chittagong	friday
i-04	23:30	06:00	dhaka to chittagong	no
i-05	12:00	18:30	dhaka to chittagong	wednesday
i-06	16:00	23:00	dhaka to chittagong	sunday
i-07	17:00	22:00	chittagong to dhaka	saturday
i-08	07:00	12:30	chittagong to dhaka	no
i-09	15:00	21:00	chittagong to dhaka	friday
i-10	23:00	05:00	chittagong to dhaka	sunday
i-11	05:00	10:00	chittagong to dhaka	wednesday
i-12	08:00	02:00	chittagong to dhaka	tuesday

http://localhost/train/user/train.php

Train ID	Single Name	Seat Type	Price	Number of Seat
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**Figure: User Home page | All Train Details**

## User Home page | Booking

**User Home Page**

Home All Train Details **Booking** Logout Change Password

**Booking**

Seat Type  
Shewn

Bogie Name  
A

Train ID  
1401

Number of Ticket  
Number of Ticket

Date  
dd/mm/yyyy

Time  
Time

Submit

End

<http://localhost/train/user/booking.php>

**Figure: User Home page | Booking**

## User Home page | Ticket Information


**User Home Page**

Home Ticket Logout Change Password

**My Details**

Hello I am parul.

User ID.: u-65  
Mobile No.: 12345  
Email: p@gmail.com



Ticket ID.: ticket-65  
Seat Type.: second seat non-ac  
Bogie Name.: C  
Train ID.: t-03  
No of Ticket.: 1  
Date: 2019-12-13  
Time: 11:10  
Total Price: 200

**Figure: User Home page | Ticket Information**

## **6) LIMITATION:**

There are so many limitations:

- This project is using one login page, if I want I use two login page like one Admin and one User.
- Main problem is to face primary key and foreign key.
- I work only two stations like Chattogram and Dhaka station, not more other stations.
- In this project, I can't use ticket cancel system.
- I can't also use proper payment system.

## **7) CONCLUSION:**

Train Ticket Booking System need to provide best service at minimum cost. It is essential for the train-ticket to be ahead of technical developments in all parts of the country and carry out independent. In this project face many problems. Firstly, I faced inserting values in database, then I overcome it. Secondly, I faced login problems, then fix it up. I also faced foreign key problem, I correct it frequently then my project run smoothly. Thirdly, I couldn't use ticket cancel system and payment system but the project is fine to running with other system.

Finally, this project has so many limitations, those can't create any problem in the project. This project has been developed successfully and performance of the system has been found satisfactory. Use of many options help user in having immediate information about running process and booking their seat without wasting time. User friendly use this system and admin also.