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# RALWAY-RESERVATION- SYSTEM

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(Train seat booking website)

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## Objectives:

The objective of the online railway ticket reservation system project is to design software to fully automate the process of issuing a railway ticket.

- To create a database of the trains.
- To search the trains it's arrival and departure time, distance between source and destination.
- To check the availability of the ticket.
- To calculate fare and book the ticket.
- To provide pdf of ticket.

## Introduction:

“Railway-Reservation-System” is a web application that has been developed in ASP, JavaScript and Microsoft SQL. The online railway ticket reservation system aims to develop a web application which aims

At providing trains details, trains availability, as well as the facility to book ticket in online for customers. An online reservation system software will:

1. Keep reservation open for 24/7.
2. Keep customer information secure.
3. Reduce employee workload.
4. Better experience for users.
5. Help to stay organized.
6. Connects to other system.

The frontend has designed using HTML and CSS and for backend C# and JavaScript has used. The railway reservation system facilitates the passengers to enquiry about the trains available on the basis of source and destination, booking and cancellation of tickets etc. The admin will keep track of the all train data and can modify these data and also keep track of the transaction of purchase ticket.

## Implementation:

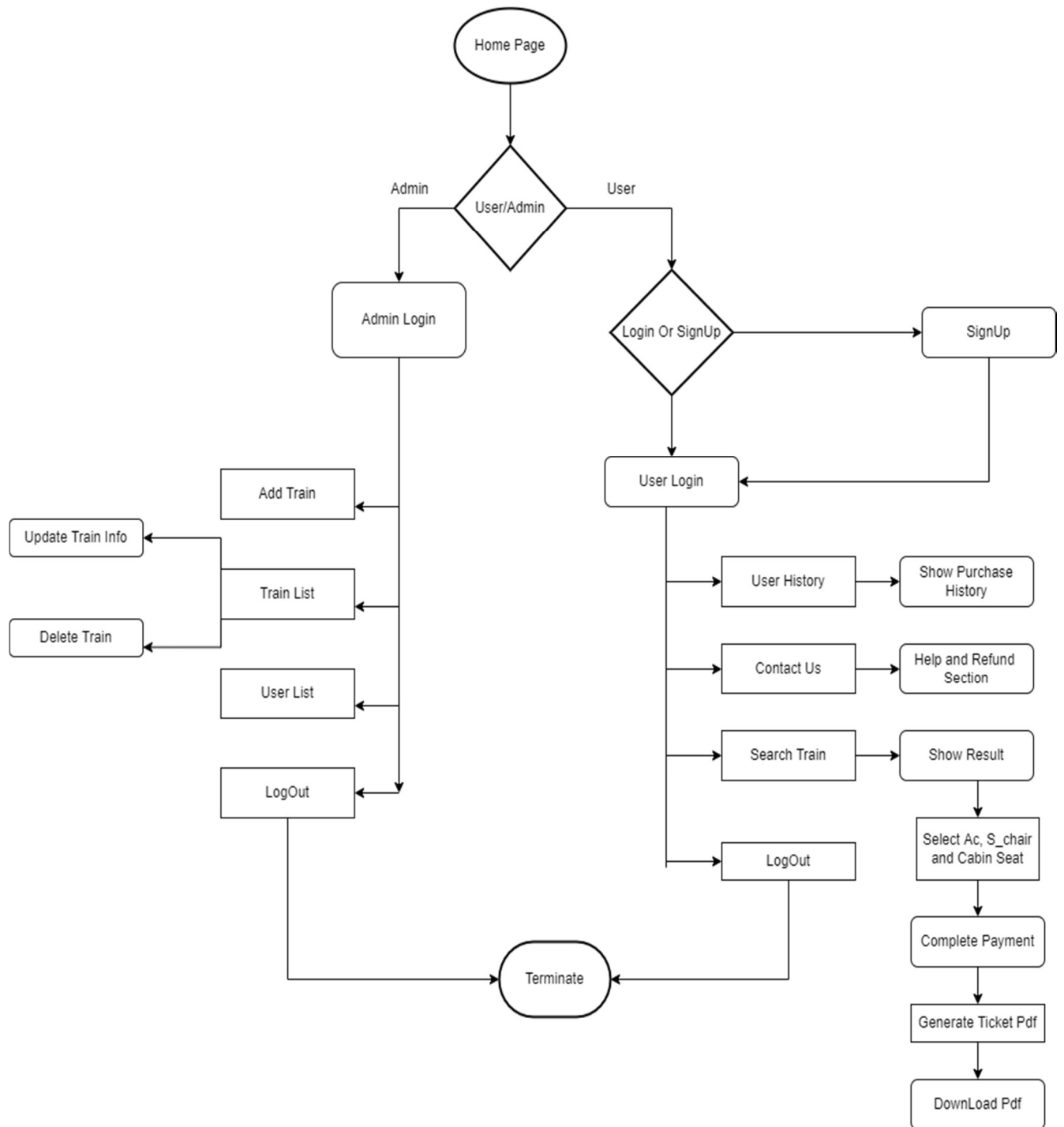
### Admin Panel:

- ⇒ Login
- ⇒ Add train
- ⇒ View Train Info
- ⇒ Update and Delete Train Info
- ⇒ User Details

### User Panel:

- ⇒ Login and Registration as User
- ⇒ Search train
- ⇒ Select Train and Seats
- ⇒ Perform Payment
- ⇒ Download Ticket

Flow diagram:



**Fig: Flow diagram of Railway management system.**

### Schema Diagram:

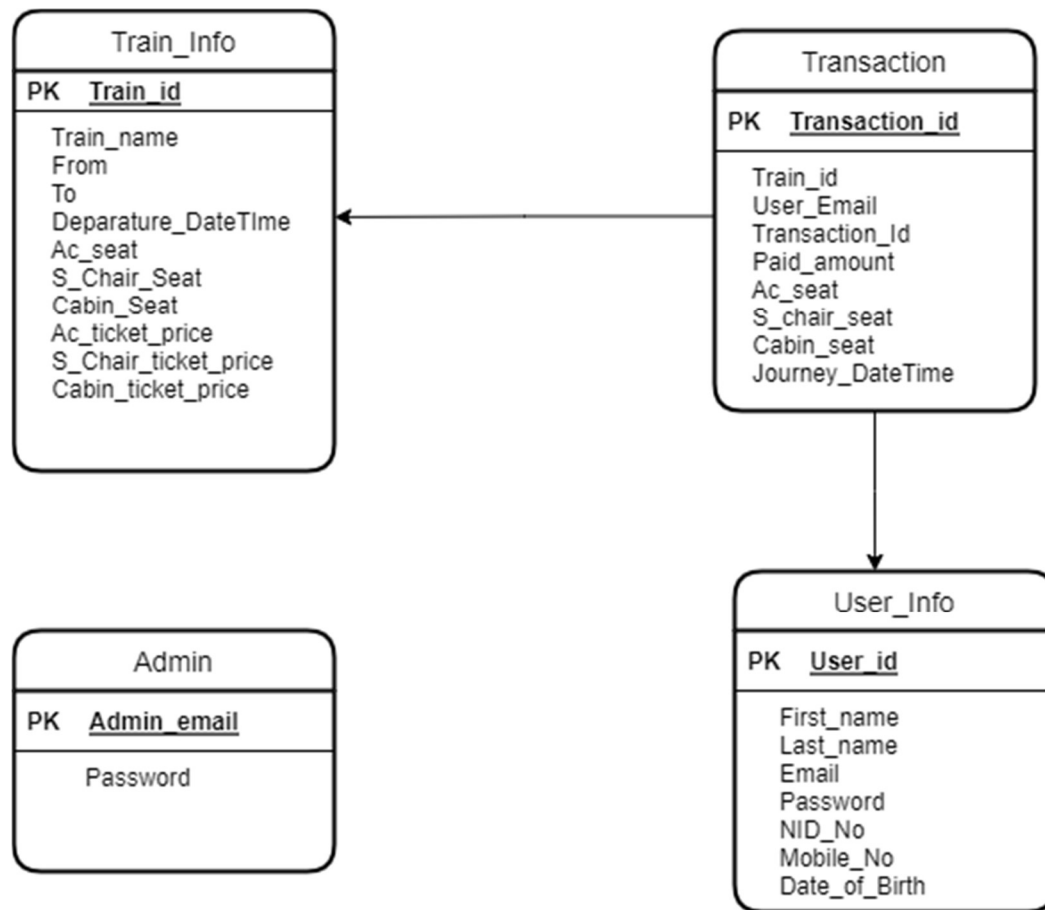


Fig: Schema diagram of the Railway Management System.

## Detailed Visualization:

### User Panel:

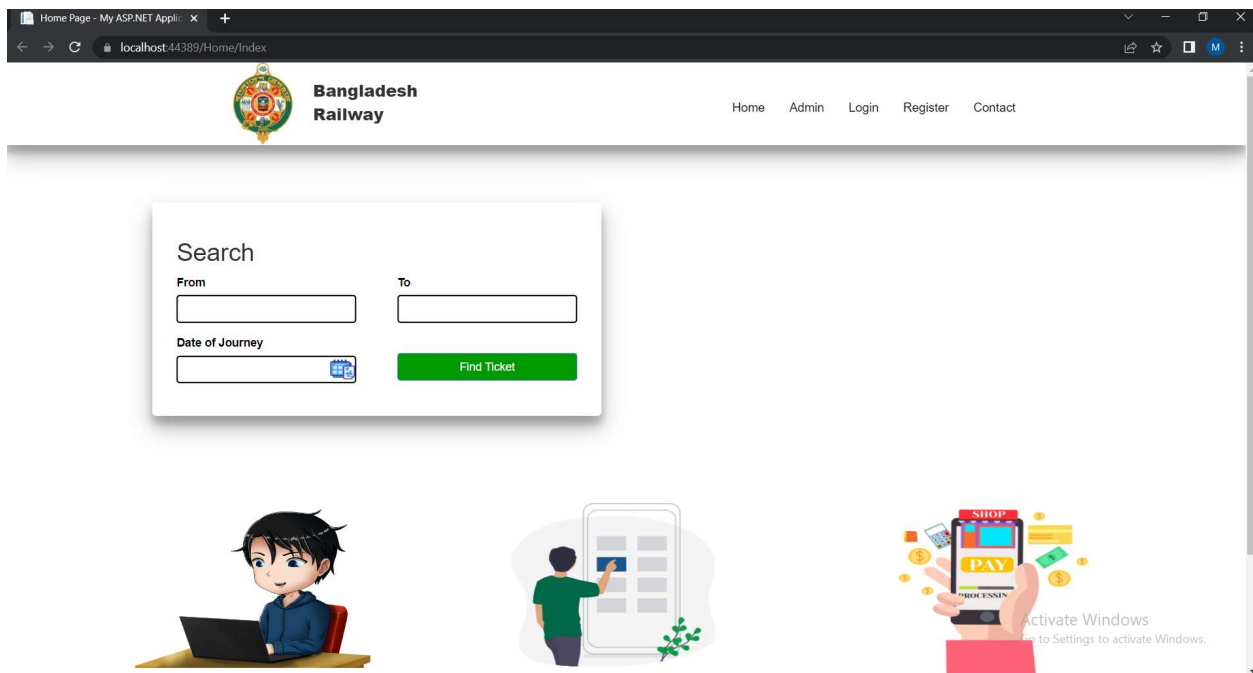


Fig: Home Page

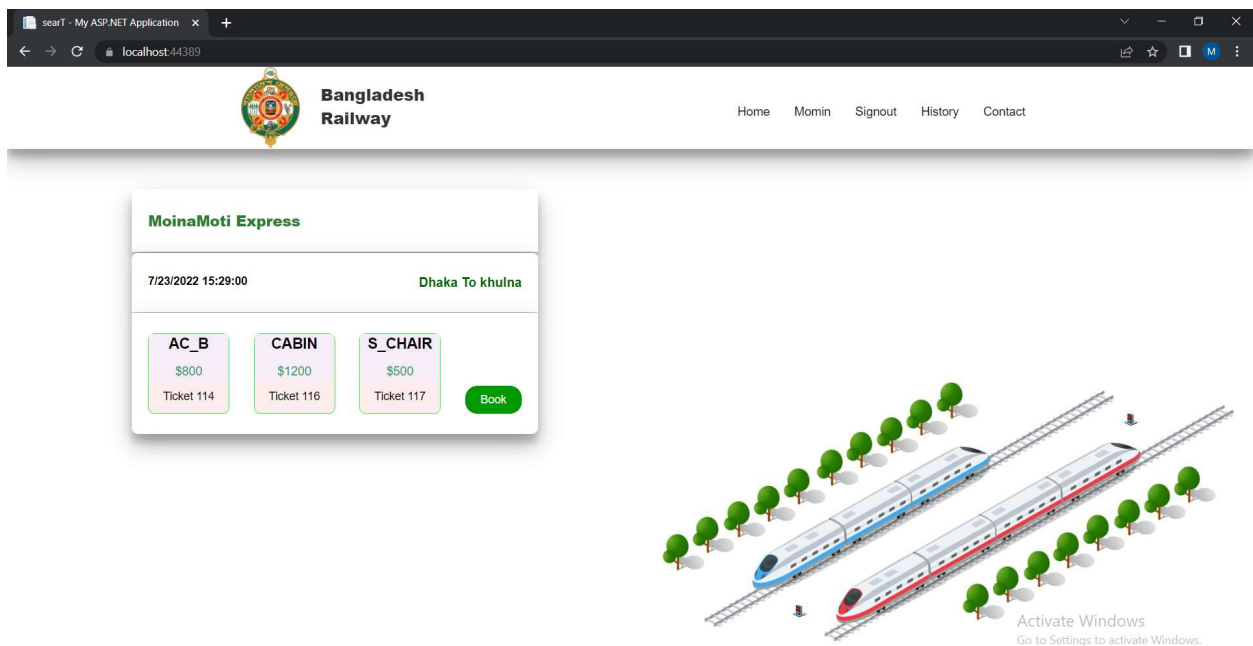


Fig: Search Result

trainSelection - My ASP.NET App: x

localhost:44389/Home/trainSelection?Trnid=27&Ac\_chair=114&shovon=117&vid\_s=116&fair1=800&fair2=500&fair3=1200

**Bangladesh Railway**

Home Momin Signout History Contact

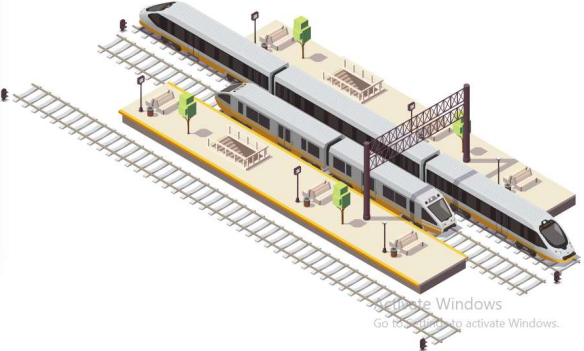
### Select Seats

Ac Seats:

Non Ac Seats:

Non Ac Seats:

SUBMIT



Activate Windows  
Go to Settings to activate Windows.

Fig: Select Seat.

Payment - My ASP.NET Application: x

localhost:44389/Home/BuyTicket

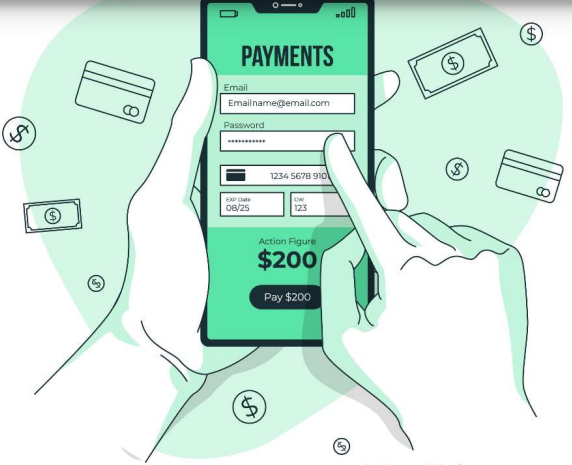
**Bangladesh Railway**

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Payment Method:  
Bkash/Nagad No: 01980655515

### Make Payment

Train Id <input type="text" value="27"/>	Email <input type="text" value="sourovsourv74@gmail.com"/>
Transaction Id. <input type="text" value="1234433324"/>	Pay <input type="text" value="2500"/>
<input type="button" value="Pay"/>	<input type="button" value="CANCEL"/>



Activate Windows  
Go to Settings to activate Windows.

Fig: Perform Payment.

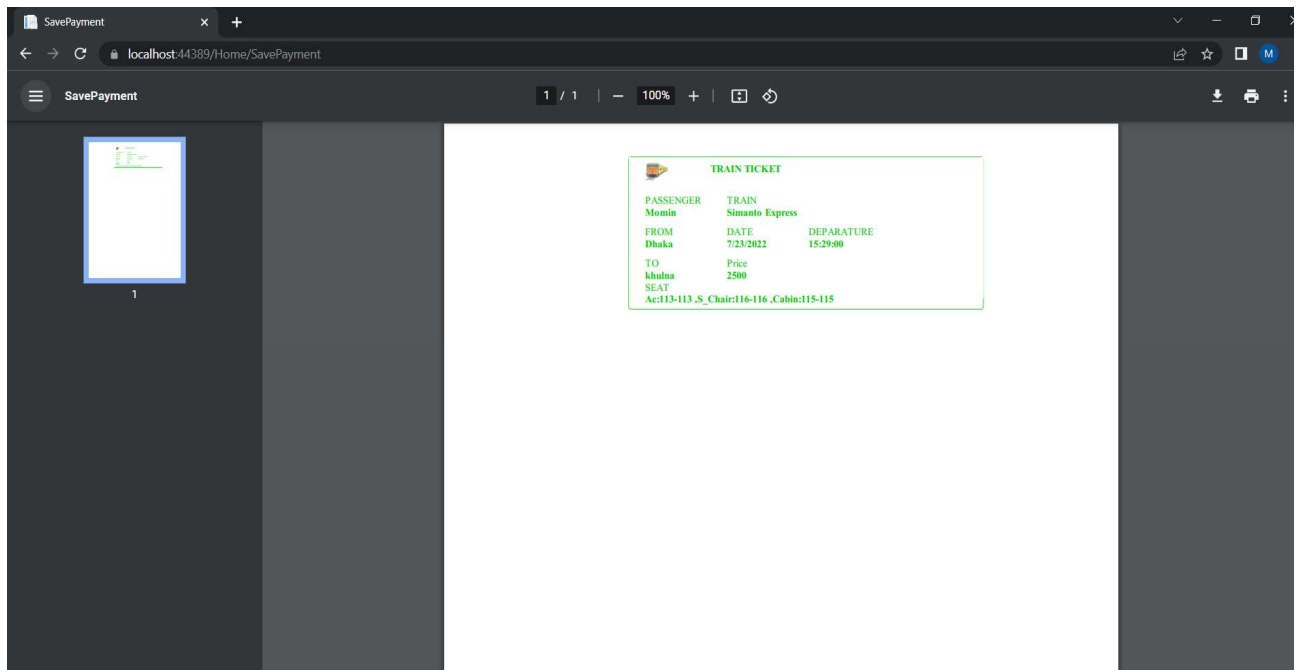


Fig: PDF of ticket.

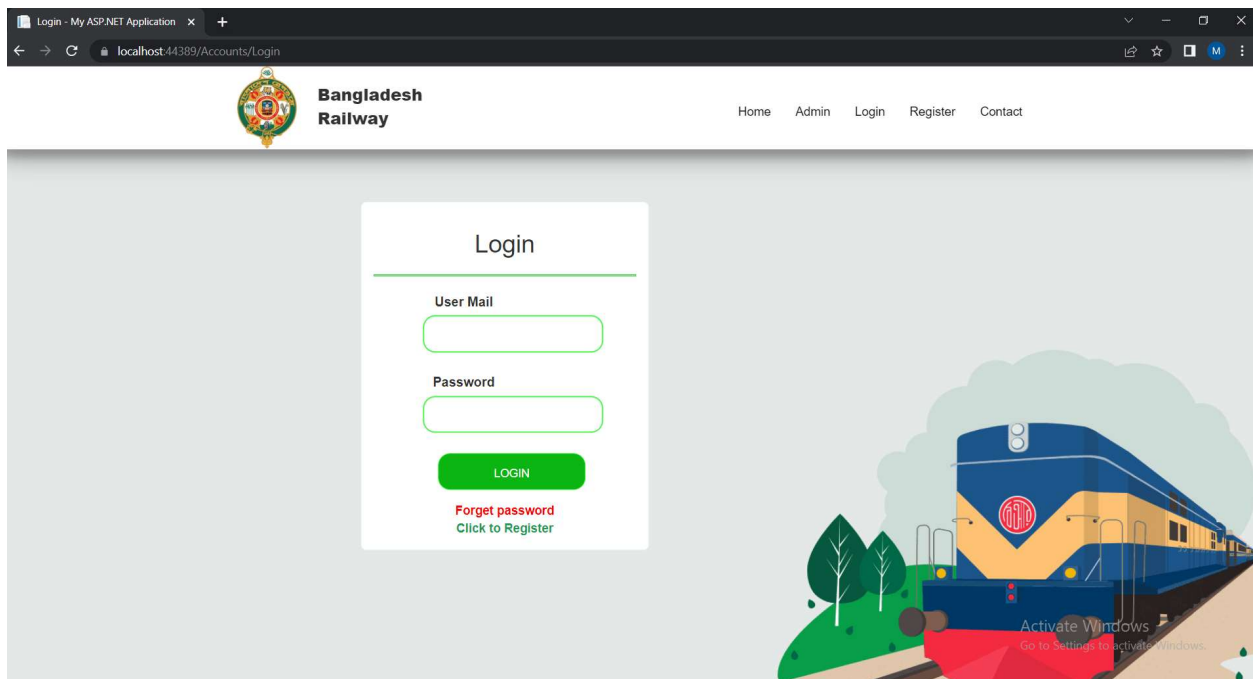



Fig: User Login Page.




Signup - My ASP.NET Application x +

localhost:44389/Accounts/Signup

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Home Admin Login Register Contact



### Registration

Register here and search for train and book it

### Signup


<b>First Name:</b>	<input type="text"/>	<b>Last Name:</b>	<input type="text"/>
<b>Email:</b>	<input type="text"/>	<b>Date Of Birth:</b>	<input type="text" value="mm/dd/yyyy"/>
<b>National Id No:</b>	<input type="text"/>	<b>Mobile No:</b>	<input type="text"/>
<b>Password:</b>	<input type="password"/>	<input type="button" value="Register"/>	

Activate Windows  
Go to Settings to activate Windows.

Fig: User Registration Page.


forgetPassword - My ASP.NET Application x +

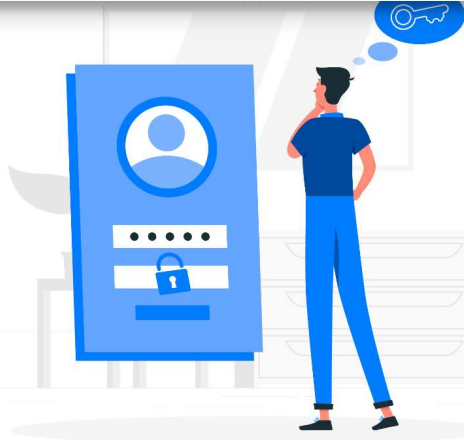
localhost:44389/Accounts/forgetPassword

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### Forgot Password ?






Activate Windows  
Go to Settings to activate Windows.

Fig: Forget Password.

## Admin Panel:

AdminLogin - My ASP.NET Appli x +

localhost:44389/Admin/AdminLogin

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Home Admin Login Register Contact

### Login

Email

Password


LOGIN

Activate Windows  
Go to Settings to activate Windows.

Fig: Admin Login.

https://localhost:44389/Admin/ x +

localhost:44389/Admin/admin

 **Bangladesh Railway**

Add Train Train User LOGOUT

### Add Route

Train Name: Required

Start: Required

Schedule Date: Required

Ac Seats: Required

S\_Chair Seats: Required

Cabin Seats: Required

Destination: Required

Schedule Time: Required

Ac Ticket Price: Required

S\_Chair Ticket Price: Required

Cabin Ticket Price: Required

SUBMIT CANCEL

Activate Windows  
Go to Settings to activate Windows.

Fig: Add Train.

https://localhost:44389/Admin/TrainList

**Bangladesh Railway** Add Train Train User LOGOUT

Train Name	Route	Ac Seats, Price	S_chair , Price	Cabin,Price	Date Time	Admin Action
Badhon	Bogura To Joypurhat	21   1000\$	50   650\$	10   1500\$	7/5/2022 21:15:00	EDIT DELETE
Mithila	Jaydebpur To Dharshana	118   500\$	119   300\$	119   800\$	7/7/2022 23:15:00	EDIT DELETE
H1	X To Y	0   100\$	5   100\$	9   100\$	7/10/2022 23:15:00	EDIT DELETE
H2	X To Y	118   100\$	6   13\$	10   11\$	7/7/2022 21:15:00	EDIT DELETE
Z	Xx To Yy	120   500\$	120   100\$	120   321\$	7/10/2022 21:15:00	EDIT DELETE
Bonolota Express	Dhaka To khulna	118   500\$	119   300\$	120   800\$	7/7/2022 23:15:00	EDIT DELETE
Ittee	Borguna To Magura	50   500\$	50   400\$	10   800\$	7/20/2022 00:15:00	EDIT DELETE
Simanto Express	Chilahati To Khulna	100   800\$	150   600\$	30   1200\$	7/22/2022 00:15:00	EDIT DELETE
Rupsa Express	Khulna To Joypurhat	120   500\$	120   100\$	120   1200\$	7/22/2022 23:15:00	EDIT DELETE
Rupali Express	Khulna To Dhaka	120   800\$	120   500\$	120   1200\$	7/27/2022 12:00:00	EDIT DELETE
MoinaMoti Express	Dhaka To khulna	113   800\$	116   500\$	115   1200\$	7/23/2022 15:29:00	EDIT DELETE

Fig: Train Details with Update and Delete Action.

UserDetails localhost:44389/Admin/UserDetails

**Bangladesh Railway** Add Train Train User LOGOUT

First Name Momin NID:1234567890 Contact No:01980655515 Email:sourovsorov74@gmail.com	Last Name Rshman
First Name Mithila NID:9876543210 Contact No:01727384399 Email:mithila@gmail.com	Last Name Rahman
First Name Touhidul NID:9876543210 Contact No:01727384399 Email:baddd@gmail.com	Last Name Islam
First Name Shapla NID:1234567890 Contact No:01727384399	Last Name Begum Date Of Birth:1/18/2017

Fig: User Details.



### Summary of Achievements:

- I had the opportunity to learn a new technology ASP.net
- Learned to work in visual studio 2019.
- Learning to work with C# and MS SQL Server 2018.
- Learn how to make pdf using Rotativa.MVC and send to purchasers email.
- We had learn to handle a project efficiently and correctly.

### Limitation of the Project:

- Choosing seat number is not added.
- Payment Gateway is not added.

### Risk Point:

1. Ticket Blacker.
2. Online payment Failed issue.

### Discussion and Conclusion:

The purpose of the “Railway-Reservation-System” is to manage the Trains data, Train Schedule, Tickets, User reservation of ticket and Transaction data in centralized way. All data are kept stored in database. To build this project Visual Studio 2019 and Microsoft SQL server have been used. ASP and ASP.NET are server side technologies. Both technologies enable computer code to be executed by an Internet server. When a browser requests an ASP or ASP.NET file, the ASP engine reads the file, executes any code in the file, and returns the result to the browser. HTML, CSS and JavaScript has been applied for design the frontend of the website. While building the project, some errors and difficulties occurred. But by taking help of blog post and asp learning site the all the error and difficulties has been resolved.

## References:

1. <https://dotnet.microsoft.com/en-us/learn/aspnet>
2. <https://www.tutorialspoint.com/asp.net/index.html>
3. <https://www.w3schools.com/html/>
4. <https://www.w3schools.com/css/>
5. <https://www.w3schools.com/js/>