

# **RAILWAY RESERVATION SYSTEM**

END TERM REPORT

by

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## Student Declaration

This is to declare that this report has been written by us. No part of the report is copied from other sources. All information included from other sources have been duly acknowledged. We aver that if any part of the report is found to be copied, we shall take full responsibility for it.

Signature of Student

Sahil Kumar

Roll number:09

Signature of Student

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Roll number:24

Place: Lovely Professional University, Jalandhar

Date: December 7, 2022

# **TABLE OF CONTENTS**

TITLE – Railway Reservation System	PAGE NO.
1 .Background and objectives of project assigned	5-6
2. Description of Project	7
3. Work done by each group member	8
4. HTML Source Code	9-13
5. HTML explanation	14-15
6. CSS source code	16-19
7. Original output	19-23
8. Technology and Framework used	24

## **BONAFIDE CERTIFICATE**

Certified that this project report “Railway Reservation System” is the bonafied work of “Sahil Kumar and Sonal Gupta” who carried out the project under my supervision.

Signature of Supervisor

Name of Supervisor

Academic Designation

ID of Supervisor

Department of Supervisor

## **INTRODUCTION OF PROJECT**

This project is basically concerned with the reservation and cancellation of Railway Tickets to the passengers. The need of this system arose because it is a known fact that India has the largest railway network in the whole of the world and to handle it manually is quite a tough job. By computerizing it, we will be able to overcome many of its limitations and will be able to make it more efficient. The handling of data and records for such a vast system is a very complex task if done manually but it can be made much easier if the system is computerized.

This project is about creating the database about Railway Reservation System. The railway reservation system facilitates the passengers

On enquire about the trains available on the basis of source and destination, booking and cancellation of tickets, enquire about the status of the booked ticket, etc. 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 sets available, 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 data is checked.

Once the train number and booking date are validated, it is checked whether the seat is available. If yes, the ticket is booked with confirm status and corresponding ticket id is generated which is sorted along with other details of the passenger. The ticket once booked can be cancelled at any time. For this, the passenger has to provide the ticket ID (the unique key). The ticket ID is searched and the corresponding record is deleted. With this, the first ticket with waiting status also gets confirmed.

## SCOPE

System will have following capabilities:

1. For users:
  - A. Booking tickets online
  - B. Check train running status
  - C. Check train and berth availability
  - D. Check booking status
2. For admin:
  - A. Change user details
  - B. Change train details
  - C. Change station details

## OBJECTIVE OF PROJECT

The main objective of the project on Railway Reservation System is to manage the details of Train, Ticket, Booking, Customer, Payment. It manages all the information about train, seat, payment. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the whole system. It tracks all the details about the booking, customer and payment.

## FUNCTIONALITIES OF PROJECT

1. Provides the searching facilities based on various factors. Such as Train, Booking, Customer and Payment.
2. Railway Reservation System also manage the Seat details online for customer details, payment details and train.
3. It tracks all the information of ticket, seat, customer, etc.
4. Manage the information of Ticket.
5. Shows the information and description of the train, booking
6. To increase efficiency of managing the train, ticket
7. It deals with monitoring the information and transactions of customer.
8. Editing, adding and updating of Records is improved which results in proper resource management of train data.
9. Manage the information of customer.
10. Integration of all records of Payment.

## **DESCRIPTION OF PROJECT**

Modules Of Railway Reservation System:

1. Train Management Module: Used for managing the train details.
2. Payment Module: Used for managing the details of Payment.
3. Seat Module: Used for managing the details of seat.
4. Ticket Management Module: Used for managing the information and details of the Ticket.
5. Booking Module: Used for managing the booking details.
6. Customer Module: Used for managing the customer information.
7. Login Module: Used for managing the login details.
8. Users Module: Used for managing the users of the system.

## **WORK DONE BY EACH GROUP MEMBER**

### **❖ Sahil Kumar—**

Sahil Kumar had written the whole HTML CODE. This code provides the whole structure to the website i.e. of Railway Reservation System.

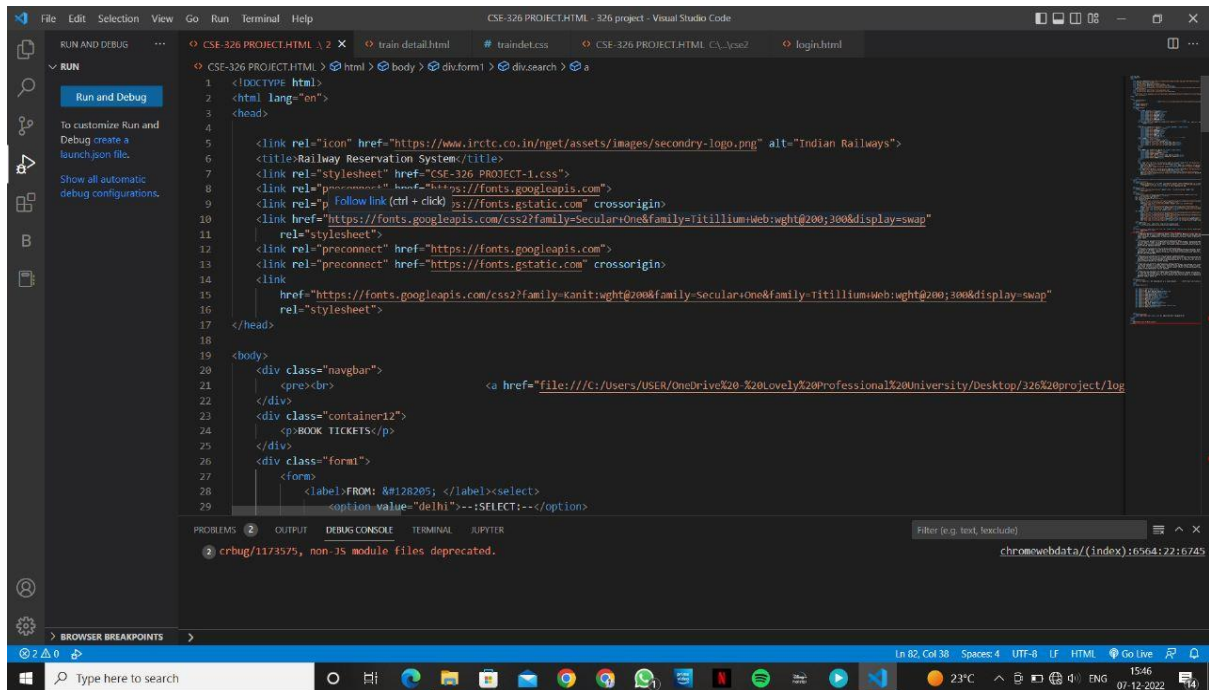
With the help of this, we are able to create the login icon, ticket booking platform icon etc. He had written the code for css. He provided the beauty to the website. He provided colour to the options like login, search, etc. He made the login page and ticket booking page.

### **❖ Sonal Gupta —**

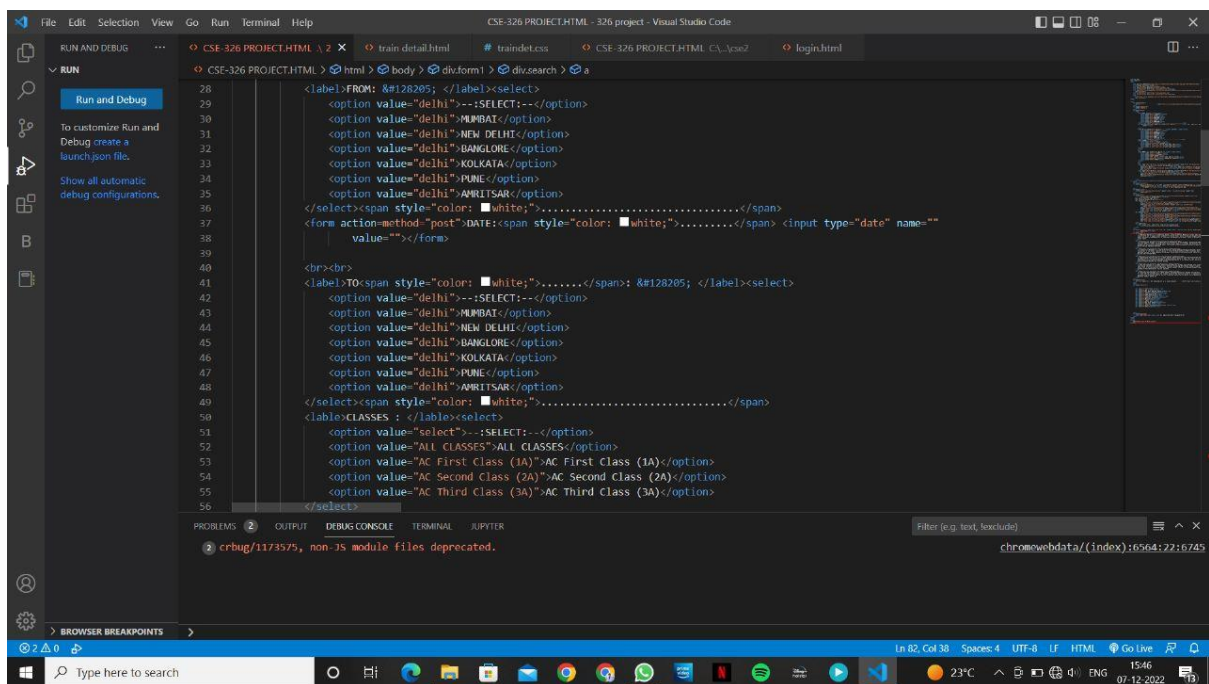
Sonal Gupta had also done the css coding. He had great contribution in the whole project. He added extraordinary things in the project. He added the advertisements to the website and also worked in creating the website smartly. He also made the use of Javascript.



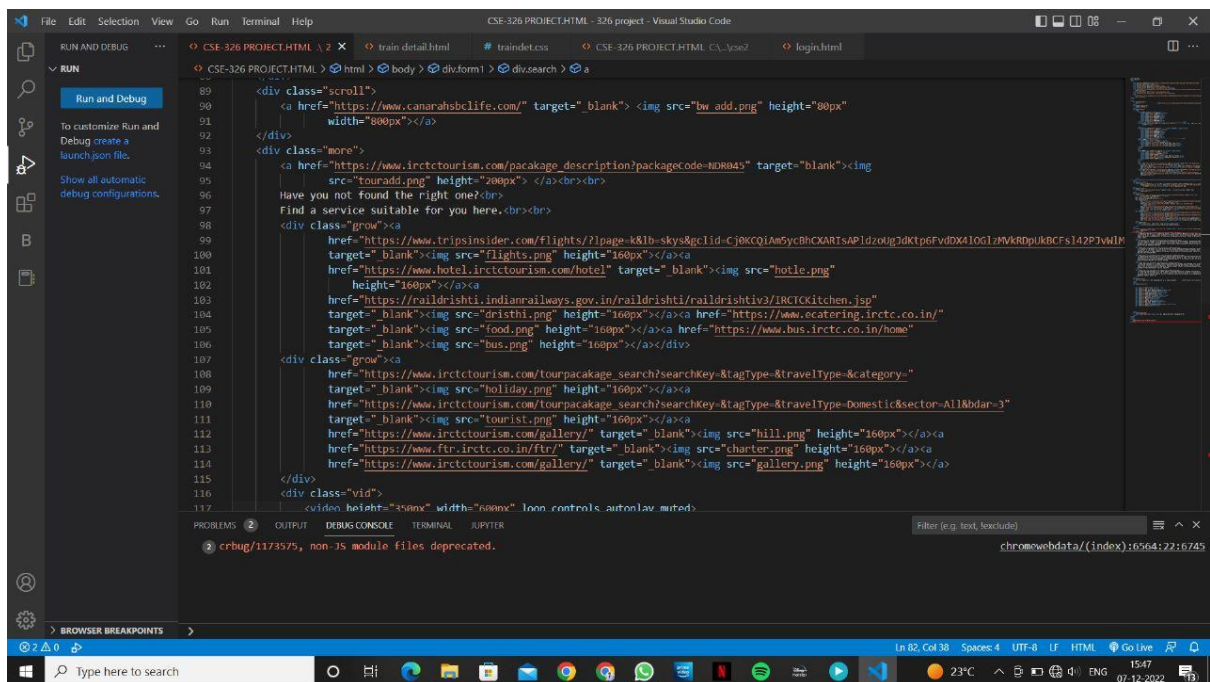
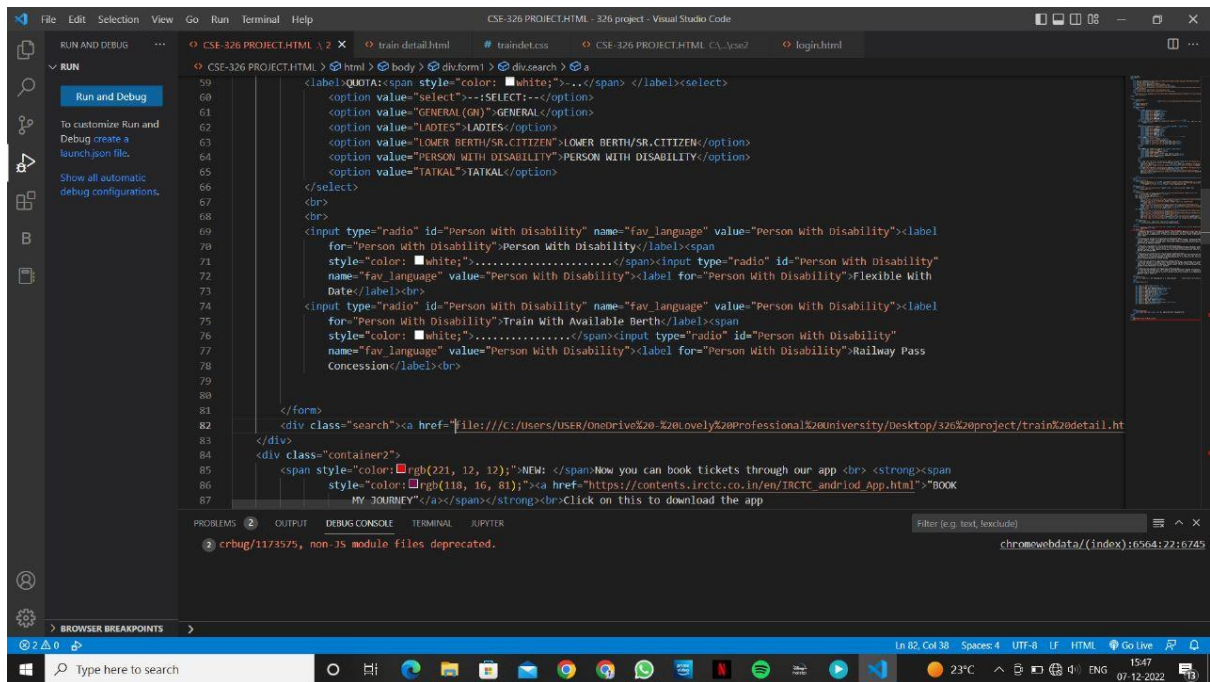
# HTML SOURCE CODE

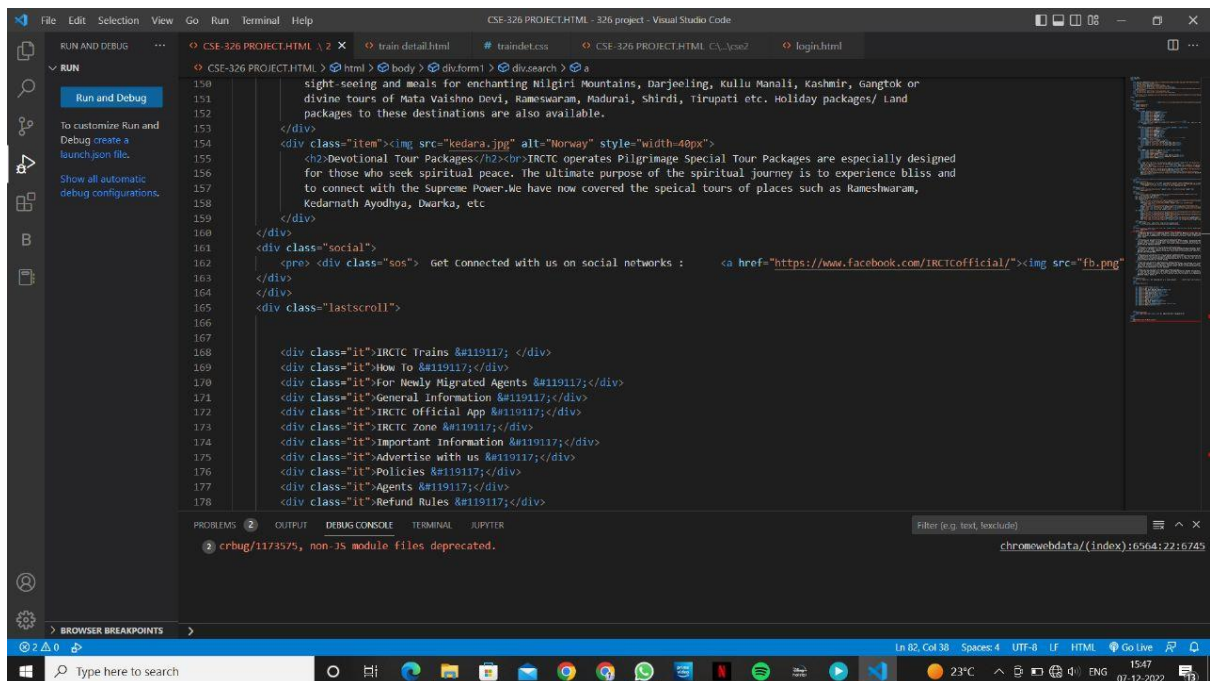
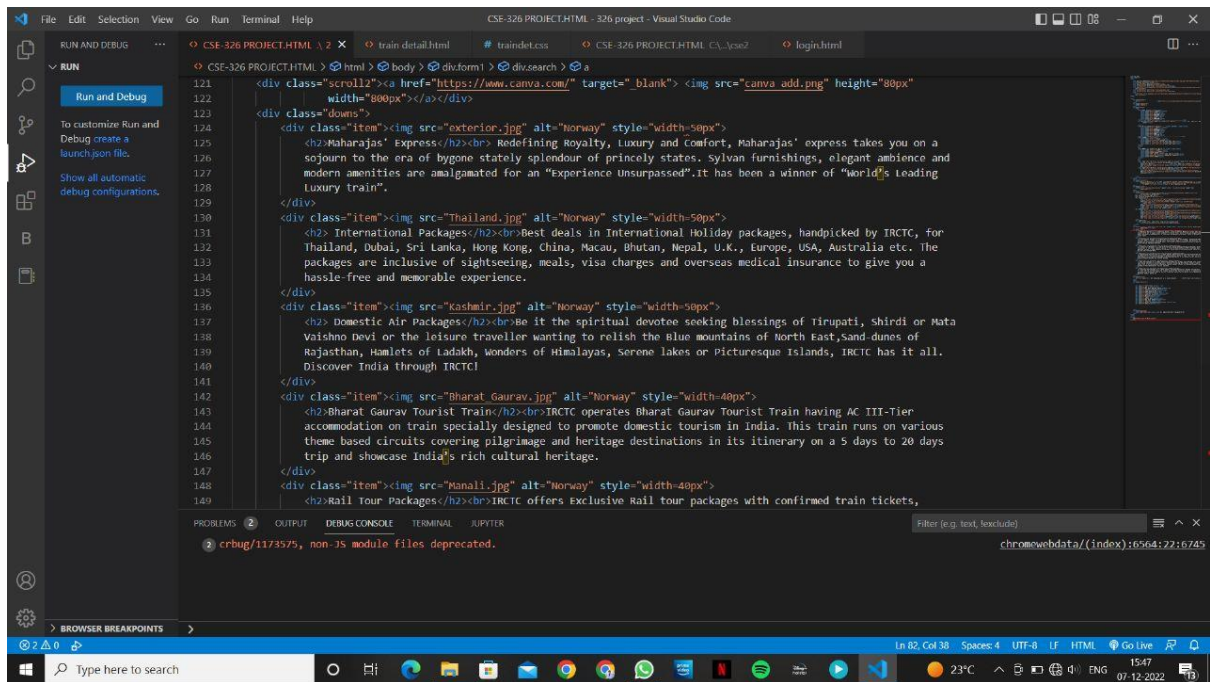


```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4
5 <link rel="icon" href="https://www.ircrc.co.in/nget/assets/images/secondary-logo.png" alt="Indian Railways">
6 <title>Railway Reservation System</title>
7 <link rel="stylesheet" href="CSE-326 PROJECT-1.css">
8 <link rel="preconnect" href="https://fonts.googleapis.com">
9 <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
10 <link href="https://fonts.googleapis.com/css2?family=SecularOne&family=TitilliumWeb:wght@200;300&display=swap"
11 rel="stylesheet">
12 <link rel="preconnect" href="https://fonts.googleapis.com">
13 <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
14 <link
15 href="https://fonts.googleapis.com/css2?family=Kanit:wght@200&family=SecularOne&family=TitilliumWeb:wght@200;300&display=swap"
16 rel="stylesheet">
17 </head>
18
19 <body>
20 <div class="navbar">
21 <pre><br>
22 </div>
23 <div class="container12">
24 <p>BOOK TICKETS</p>
25 </div>
26 <div class="form1">
27 <form>
28 <label>FROM: &#128205; </label><select>
29 <option value="delhi">--:SELECT:--</option>
```

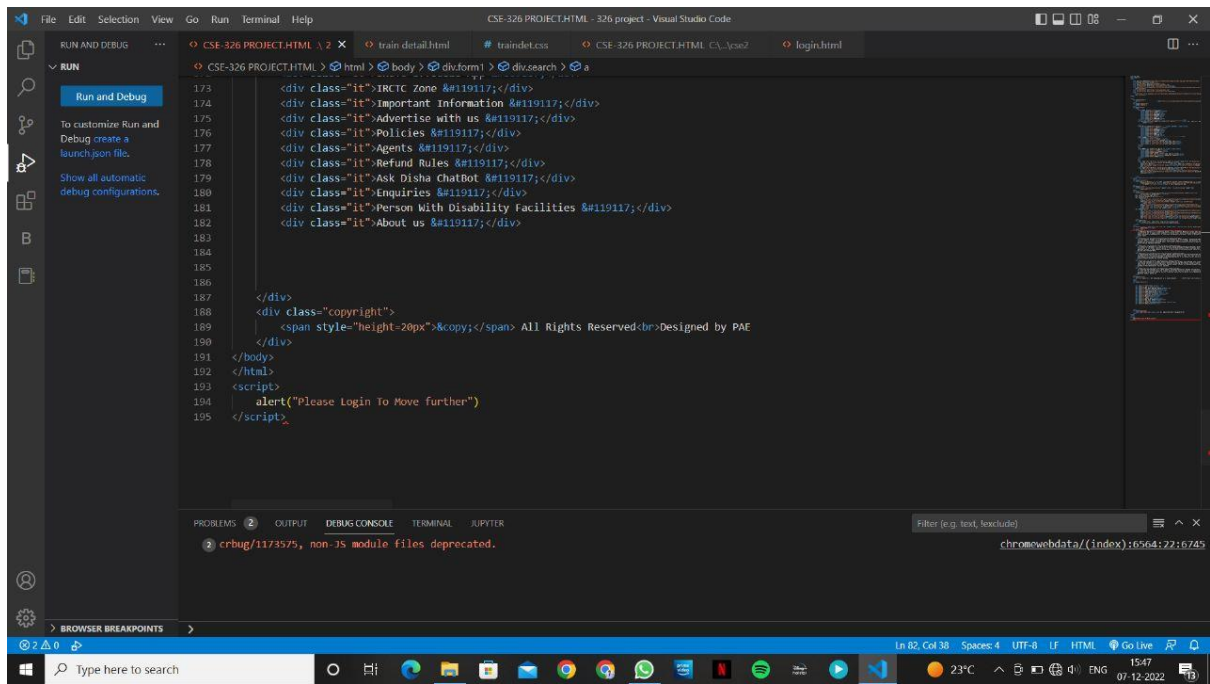


```
28 <label>FROM: &#128205; </label><select>
29 <option value="delhi">--:SELECT:--</option>
30 <option value="delhi">MUMBAI</option>
31 <option value="delhi">NEW DELHI</option>
32 <option value="delhi">BANGLORE</option>
33 <option value="delhi">KOLKATA</option>
34 <option value="delhi">PUNE</option>
35 <option value="delhi">AMRITSAR</option>
36 </select><span style="color: #white;">.....</span>
37 <form action="method="post">DATE:<span style="color: #white;">.....</span> <input type="date" name=""
38 value=""></form>
39
40 <br><br>
41 <label>TO:<span style="color: #white;">.....</span> &#128205; </label><select>
42 <option value="delhi">--:SELECT:--</option>
43 <option value="delhi">MUMBAI</option>
44 <option value="delhi">NEW DELHI</option>
45 <option value="delhi">BANGLORE</option>
46 <option value="delhi">KOLKATA</option>
47 <option value="delhi">PUNE</option>
48 <option value="delhi">AMRITSAR</option>
49 </select><span style="color: #white;">.....</span>
50 <label>CLASSES : </label><select>
51 <option value="select">--:SELECT:--</option>
52 <option value="ALL CLASSES">ALL CLASSES</option>
53 <option value="AC First Class (1A)">AC First Class (1A)</option>
54 <option value="AC Second Class (2A)">AC Second Class (2A)</option>
55 <option value="AC Third Class (3A)">AC Third Class (3A)</option>
56 </select>
```

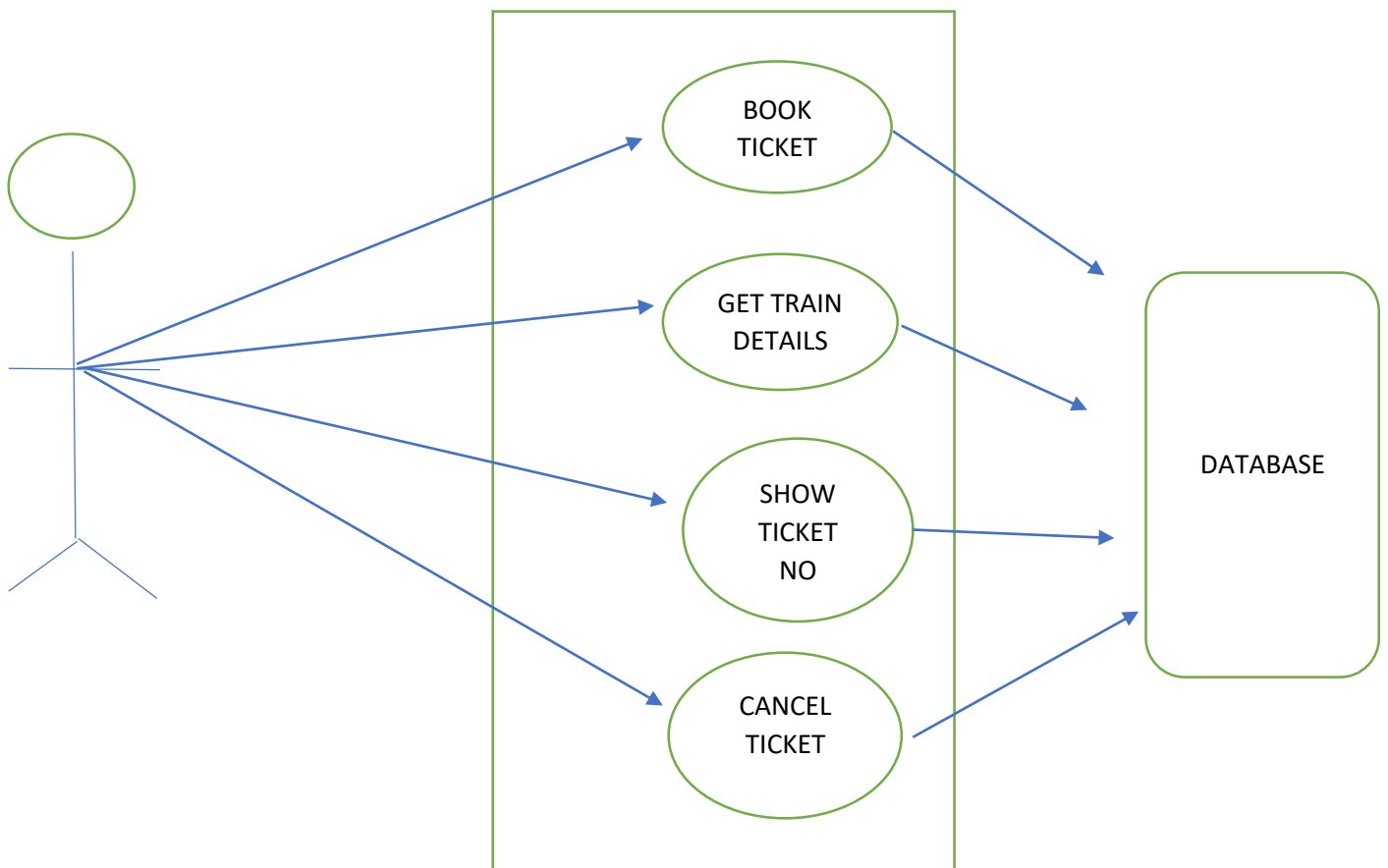
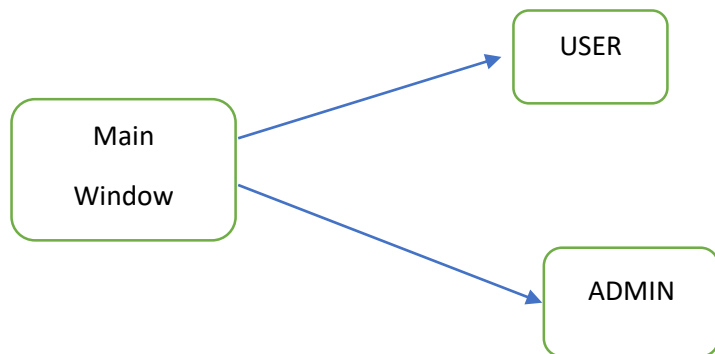






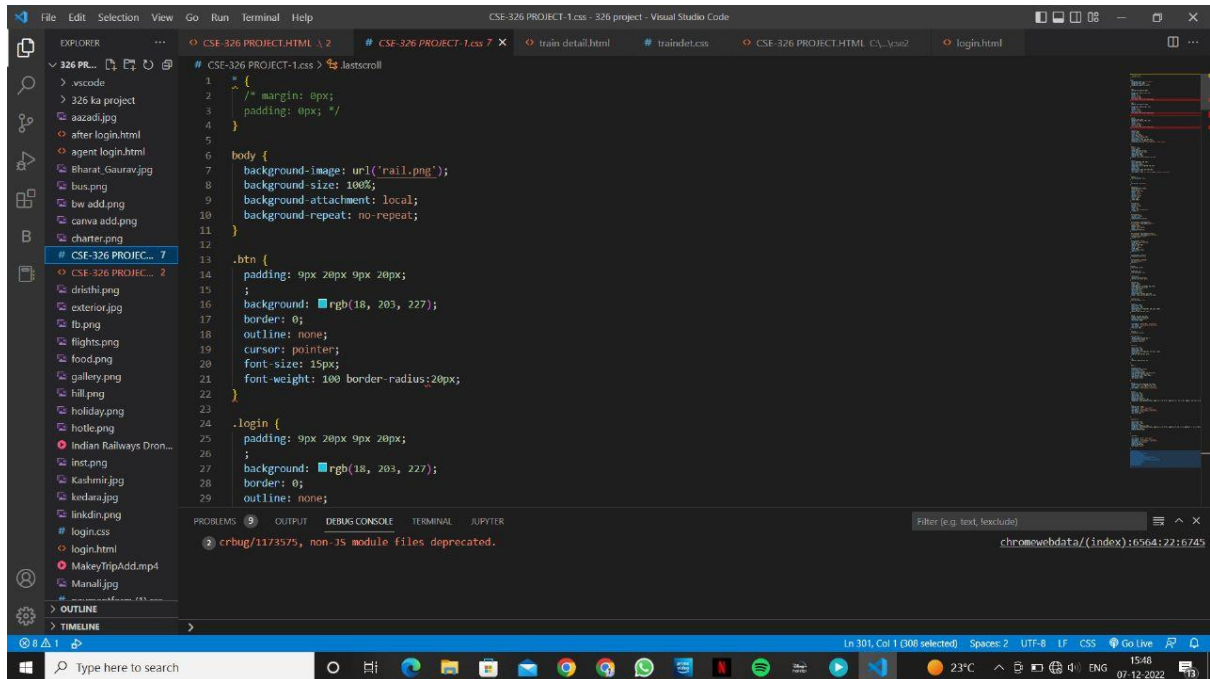


## **EXPLANATION OF HTML CODE**



## FLOW CHART

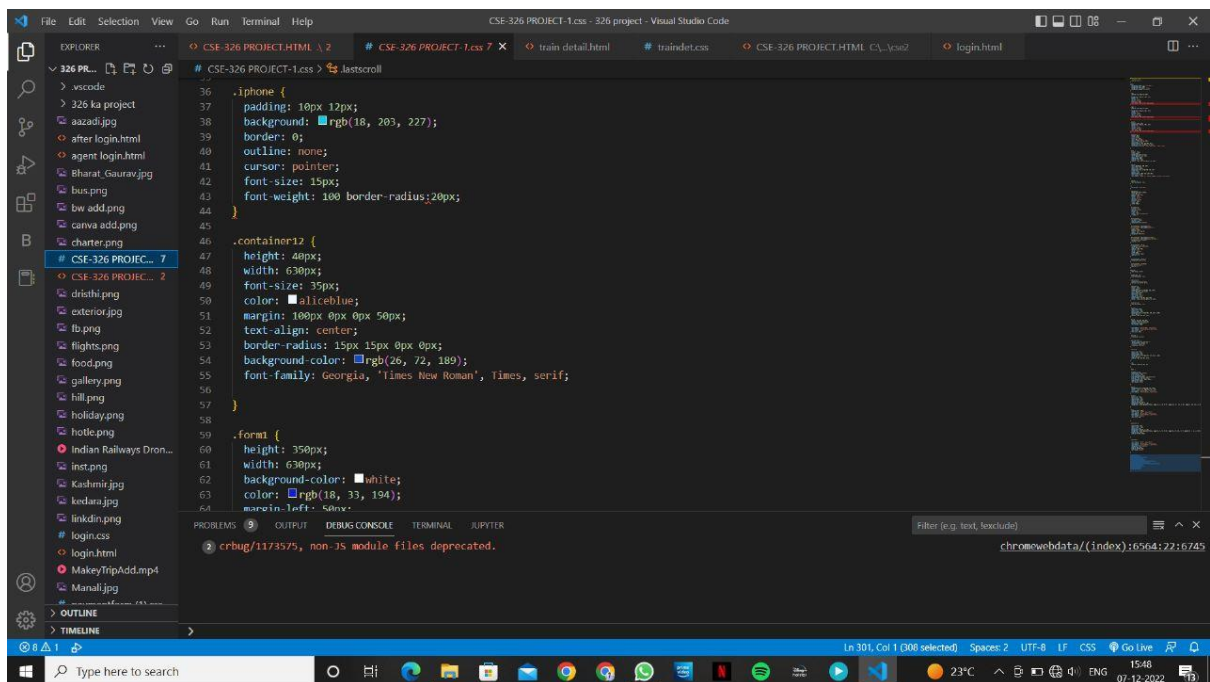
# CSS SOURCE CODE



The screenshot shows the Visual Studio Code editor with the file 'CSE-326 PROJECT-1.css' open. The code defines styles for a body, a button, and a login form. The body has a background image of a train, a size of 100%, and no repeat. The button has a padding of 9px 20px 9px 20px, a background color of rgb(18, 203, 227), and a border of 0. The login form has a padding of 9px 20px 9px 20px, a background color of rgb(18, 203, 227), and a border of 0. The code is as follows:

```
1 /* margin: 0px;
2 padding: 0px; */
3
4
5
6 body {
7   background-image: url('train.png');
8   background-size: 100%;
9   background-attachment: local;
10  background-repeat: no-repeat;
11
12
13 .btn {
14   padding: 9px 20px 9px 20px;
15   ;
16   background: rgb(18, 203, 227);
17   border: 0;
18   outline: none;
19   cursor: pointer;
20   font-size: 15px;
21   font-weight: 100 border-radius:20px;
22 }
23
24 .login {
25   padding: 9px 20px 9px 20px;
26   ;
27   background: rgb(18, 203, 227);
28   border: 0;
29   outline: none;
```

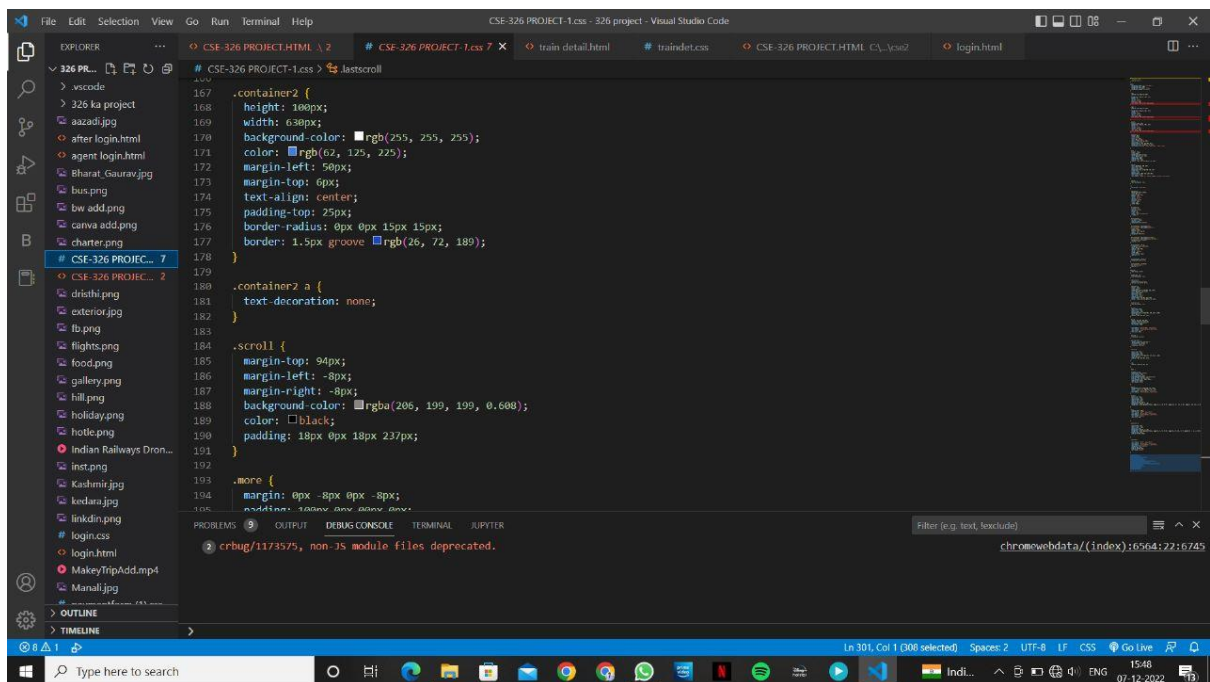
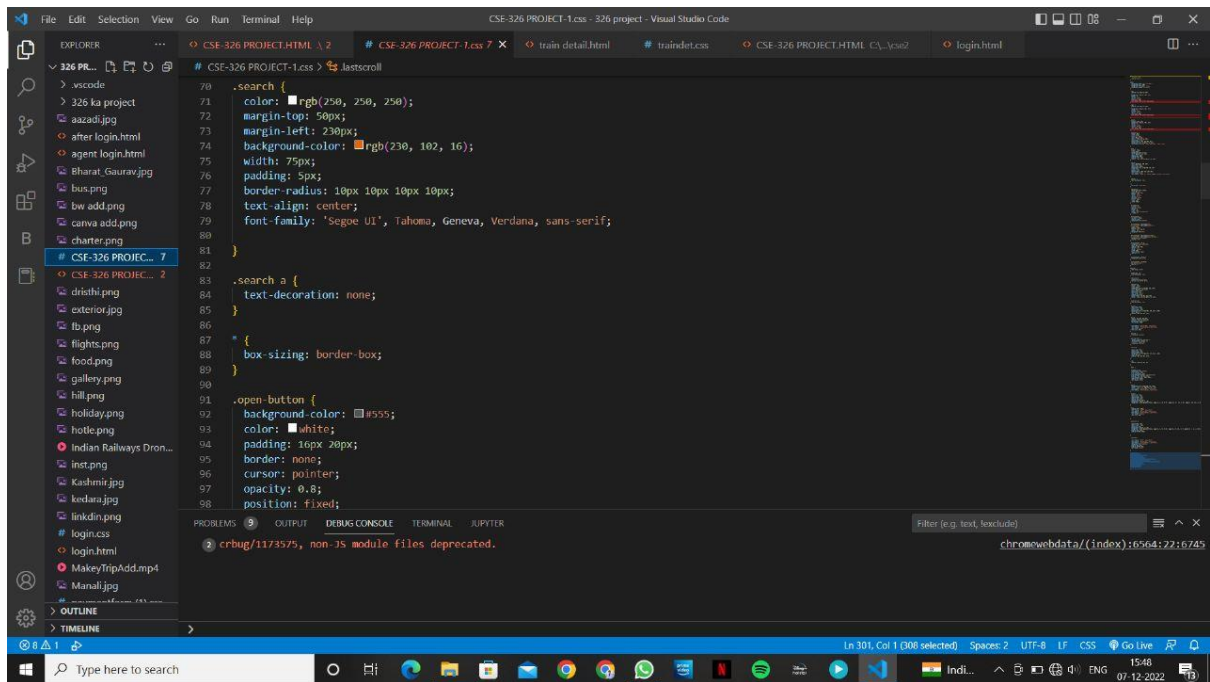
The bottom status bar shows 'Ln 301, Col 1 (308 selected) Spaces: 2 UTF-8 LF CSS' and a Go Live button. The taskbar at the bottom shows the system clock as 15:48 on 07-12-2022.

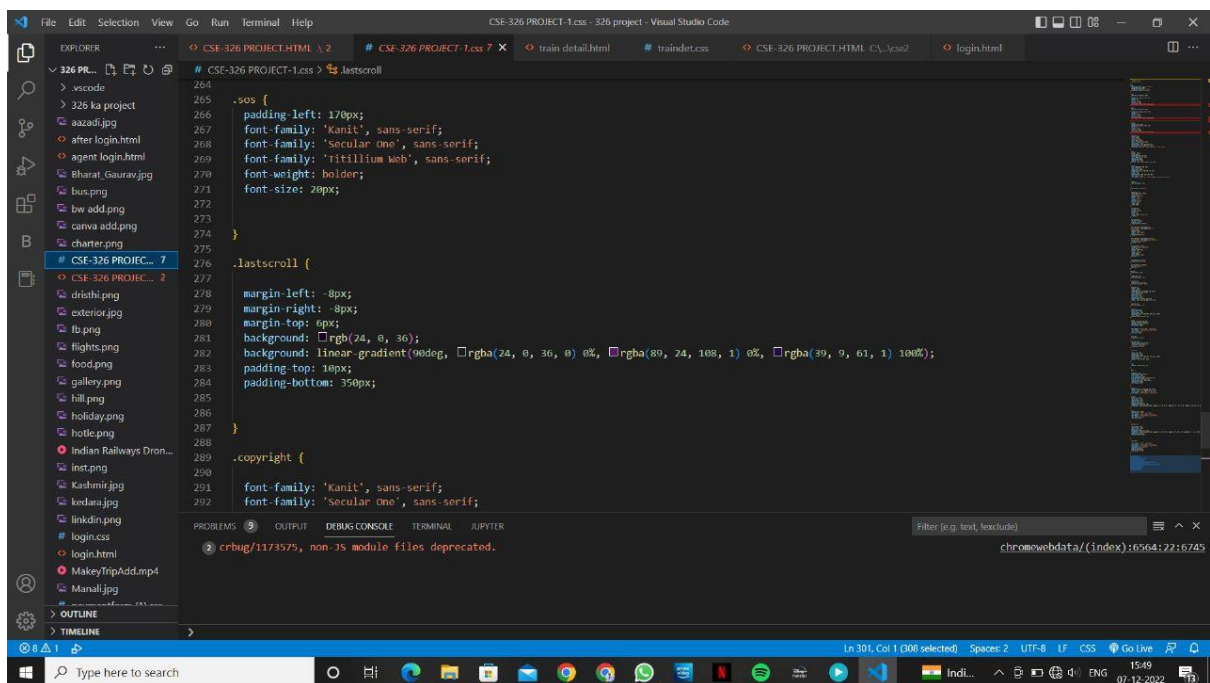
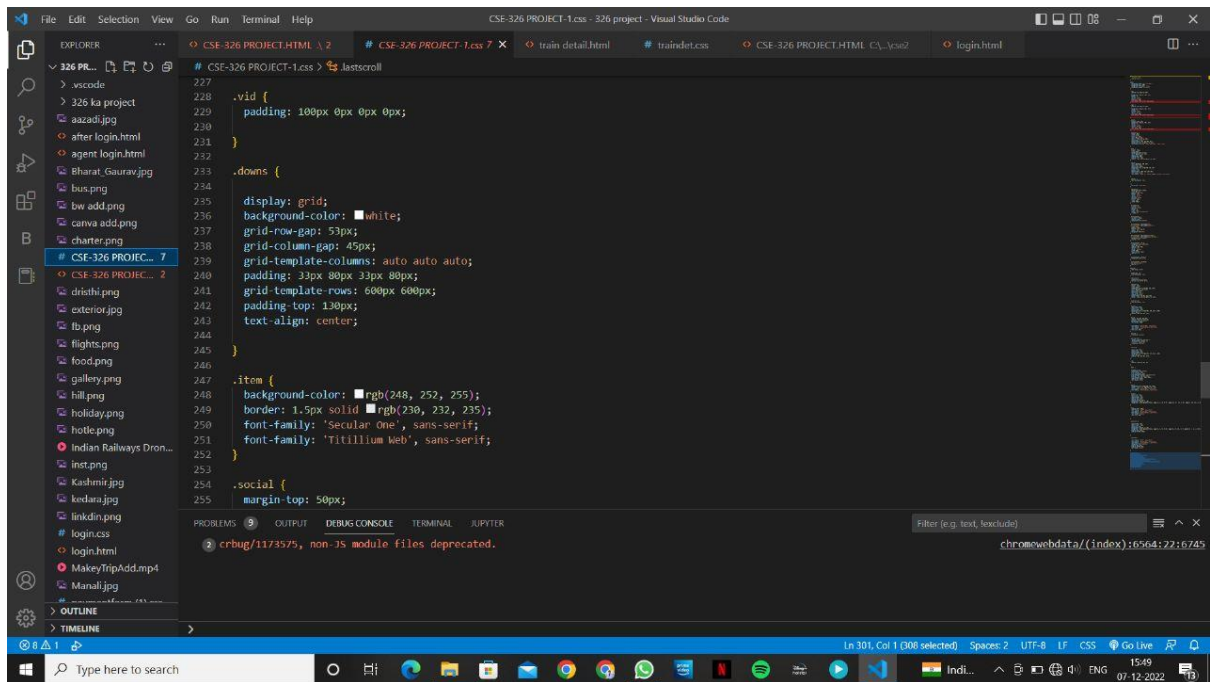


The screenshot shows the Visual Studio Code editor with the file 'CSE-326 PROJECT-1.css' open. The code defines styles for a container, a form, and a login form. The container has a height of 40px, width of 600px, font-size of 35px, color of aliceblue, margin of 100px 0px 0px 50px, text-align of center, border-radius of 15px 15px 0px 0px, background-color of rgb(26, 72, 189), and font-family of Georgia, 'Times New Roman', Times, serif. The form has a height of 350px, width of 600px, background-color of white, color of rgb(18, 33, 194), and margin-left of 50px. The code is as follows:

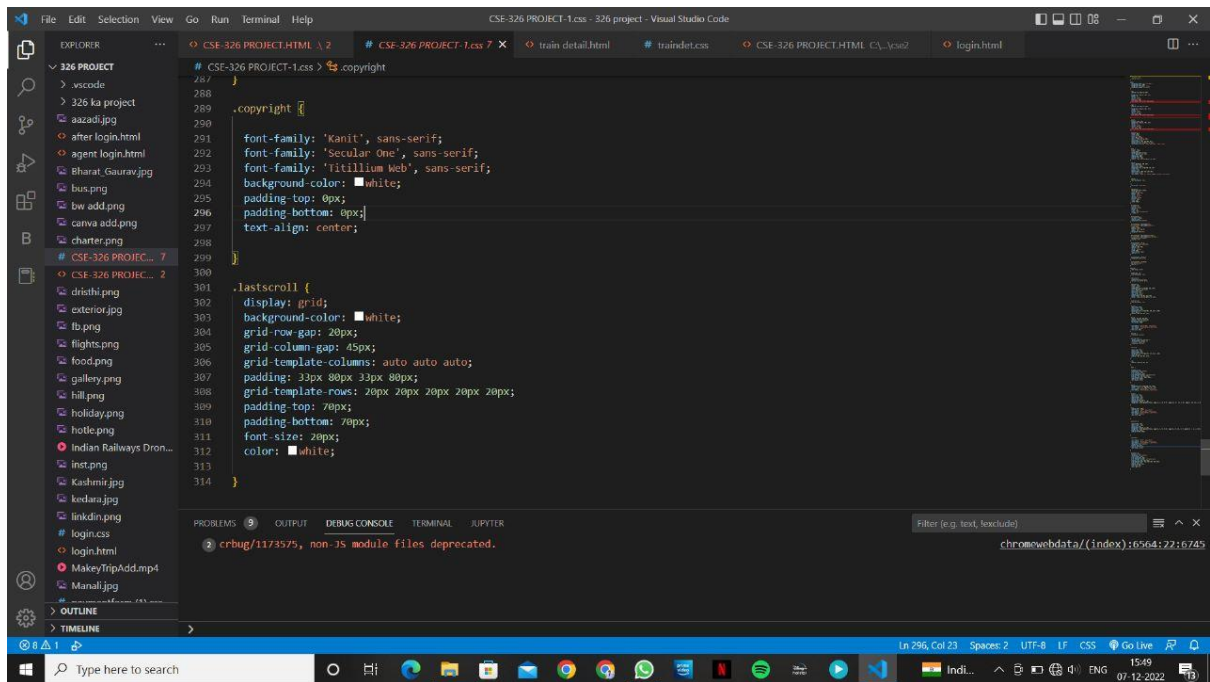
```
36 .iphone {
37   padding: 10px 12px;
38   background: rgb(18, 203, 227);
39   border: 0;
40   outline: none;
41   cursor: pointer;
42   font-size: 15px;
43   font-weight: 100 border-radius:20px;
44 }
45
46 .container12 {
47   height: 40px;
48   width: 600px;
49   font-size: 35px;
50   color: aliceblue;
51   margin: 100px 0px 0px 50px;
52   text-align: center;
53   border-radius: 15px 15px 0px 0px;
54   background-color: rgb(26, 72, 189);
55   font-family: Georgia, 'Times New Roman', Times, serif;
56
57 }
58
59 .form1 {
60   height: 350px;
61   width: 600px;
62   background-color: white;
63   color: rgb(18, 33, 194);
64   margin-left: 50px;
```

The bottom status bar shows 'Ln 301, Col 1 (308 selected) Spaces: 2 UTF-8 LF CSS' and a Go Live button. The taskbar at the bottom shows the system clock as 15:48 on 07-12-2022.









## **TECHNOLOGY AND FRAMEWORK USED IN PROJECT**

- HTML
- CSS
- JAVASCRIPT

## **ORIGINAL OUTPUT OF CODING**

BOOK TICKETS

FROM: AMRITSAR DATE: mm / dd / yyyy

TO: AMRITSAR CLASSES: ---SELECT---

QUOTA: ---SELECT---

☐ Person With Disability ☐ Flexible With Date

☐ Train With Available Berth ☐ Railway Pass Concession

SEARCH

**SEARCH TRAIN PAGE**-There is another part of that page which is **ADMINISTRATOR**, by which administrator can modify the train details. Here user find the train detail and to press “book ticket” option for booking the ticket.

BOOK TICKETS

FROM: BANGLORE DATE: mm / dd / yyyy

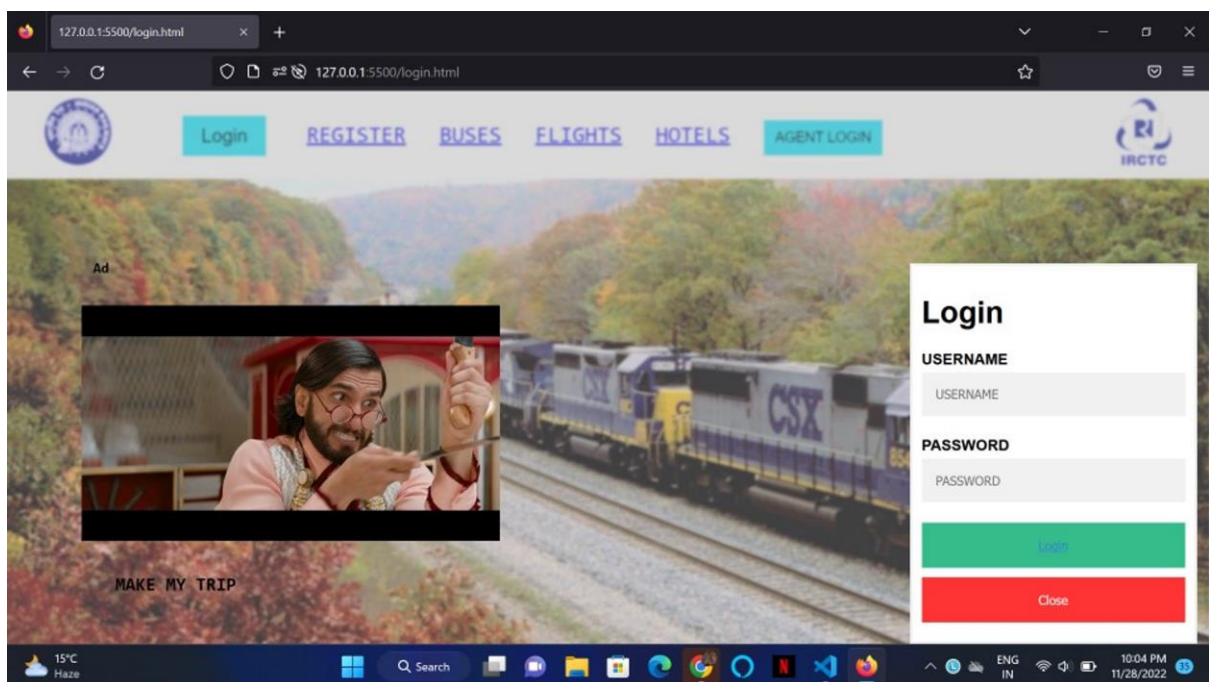
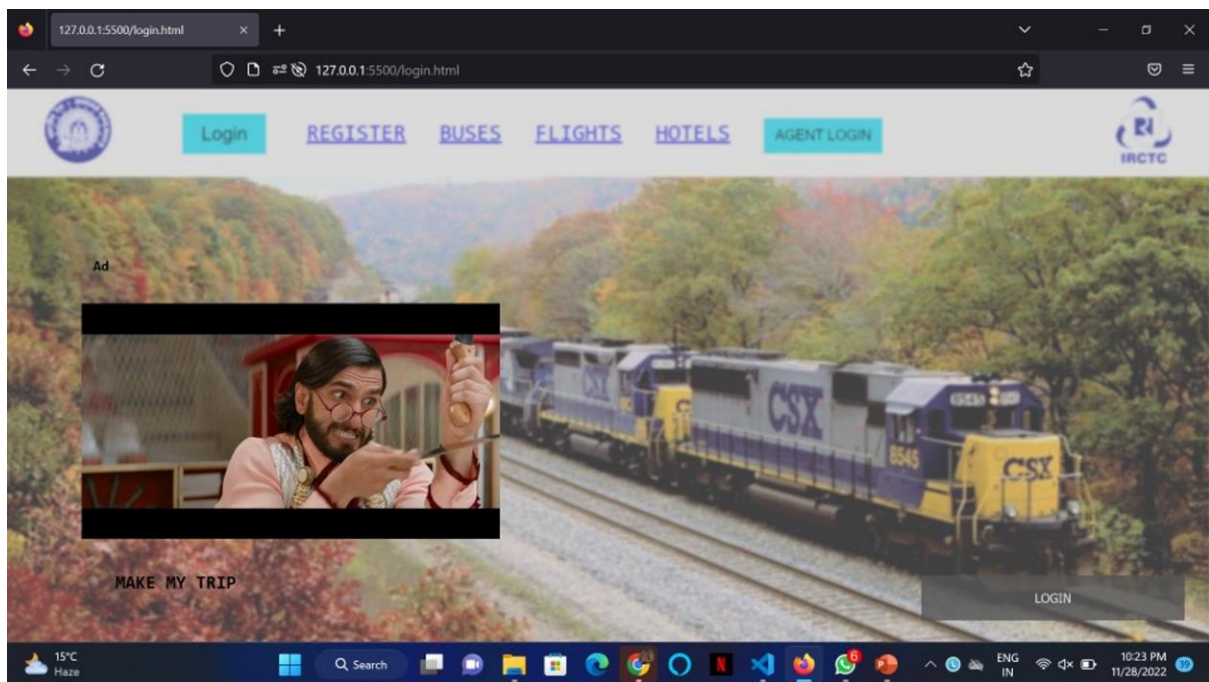
TO: MUMBAI CLASSES: AC First Class (1A)

QUOTA: ---SELECT---

☐ Person W ☐ Flexible With Date

☐ Train W ☒ Railway Pass Concession

SEARCH



For a new user there is a hyperlink by which user can create a new account.



Book your Train

File | C:/Users/USER/OneDrive%20-%20Lovely%20Professional%20University/Desktop/326%20project/train%20detail.html

# FETCH YOUR TRAIN

MUMBAI → NEW DELHI | 07 Dec , Wed , 2022

### Rajdhani Express (12324)

17:41 | MUMBAI | Tue, 07 Dec ---28:21--- 22:02 | NEW DELHI | Wed, 08 Dec

SC 200/-	Sleeper 570/-	3A 1100/-	2A 1800/-
-------------	------------------	--------------	--------------

BOOK

### Jan Shatabdi Express (23421)

06:25 | MUMBAI | Wed , 07 Dec ---24:25--- 06:50 | NEW DELHI | Thr, 08 Dec

SC 200/-	Sleeper 570/-	3A 1100/-	2A 1800/-
-------------	------------------	--------------	--------------

Type here to search

23°C 15:51 07/12/2022

Payment Form

127.0.0.1:5501/tyu.html

## Payment

### Account

Full Name Nick Name

Email Address

### Date of Birth Gender

DD MM YYYY Male Female

### Payment Details

Credit Card Paypal

Card Number

Card CVC 07 Dec 2021

PAY NOW

24°C Haze

Search

ENG IN 3:53 PM 12/7/2022

