

INT220 CA 3 REPORT

IRCTC RAILWAY RESERVATION SYSTEM

10-april -2022

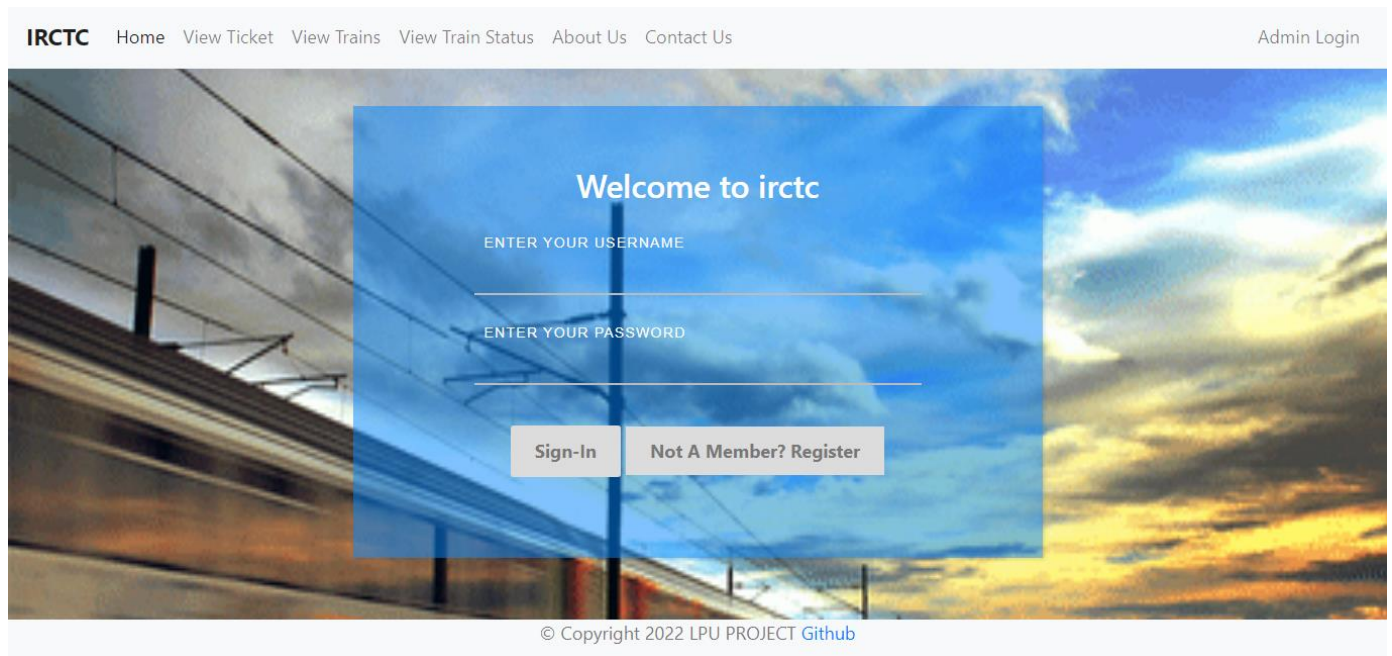
Submitted to:

Nishant Agnihotri

Submitted by:

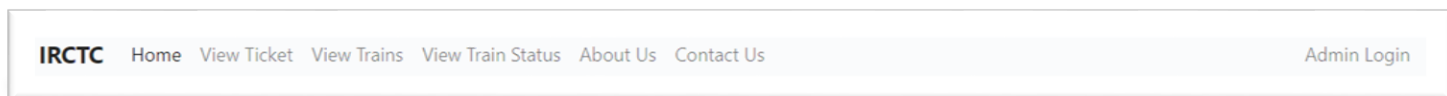
Sahib Singh (12008326)

Front Page



Its landing page of IRCTC landing page.

Header of frontpage



- Ticket can be viewed and train schedules can be checked as well from the front page
- Left corner, Admin Login is visible in which administrator can login and manage trains and booked reservations.

Table Detail

Tables	Attributes
admin	username , password
user	username , name, email, address, password
train	t_number , t_date , num_ac, num_sleeper, released_by
train_status	t_number , t_date , seats_b_ac, seats_b_sleeper
ticket	pnr_no , coach, booked_by, booked_at, t_number, t_date
passenger	name, age, gender, pnr_no , berth_no , berth_type, coach_no

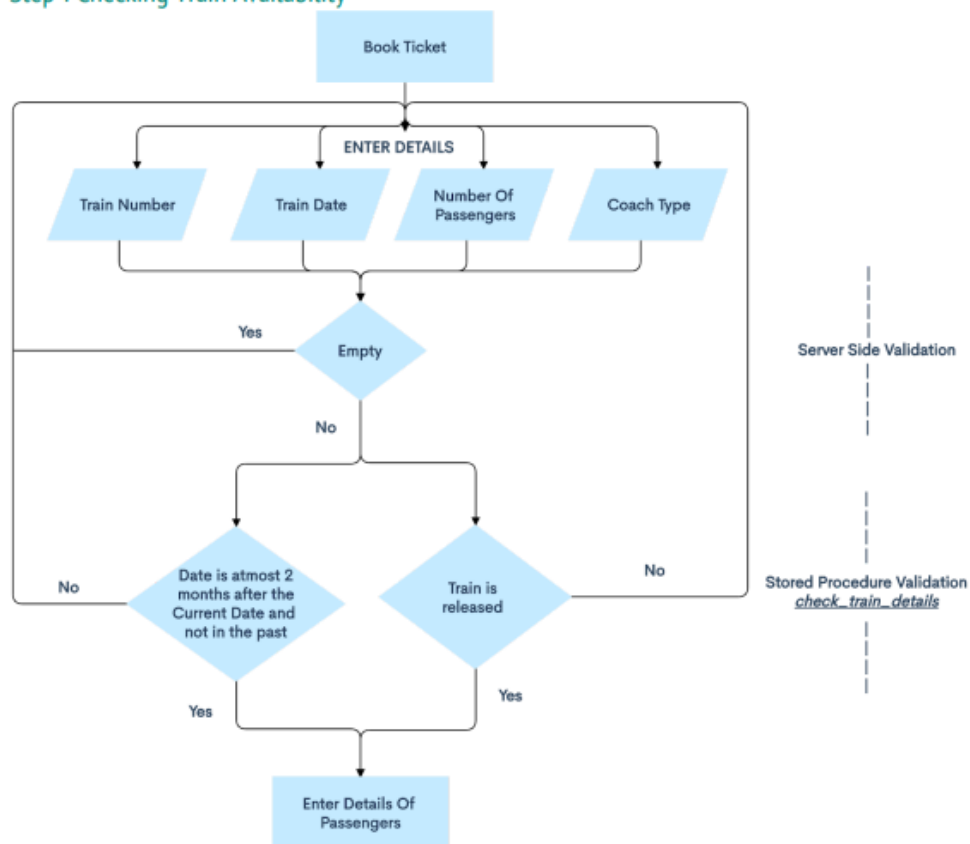
**Bold attributes denote Primary Keys*

- I. **admin** table stores the username & password of admins.
- II. **user** table stores the basic information about all the users registered on the portal.
- III. **train** table has the details of a train released by the admin, including train number, date of journey, number of AC & Sleeper Coaches available.
- IV. **train_status** table stores the total number of seats booked in AC & Sleeper Coaches of all the trains released in the portal.
- V. **ticket** table stores the details of a ticket, namely PNR number, coach(AC/Sleeper) for which ticket is booked, train number, train date, name of the user who booked the ticket.
- VI. **passenger** table stores the information related to all passengers, their basic info, including name, age & gender, and details of their booking, including their berth number, coach number, and berth type.

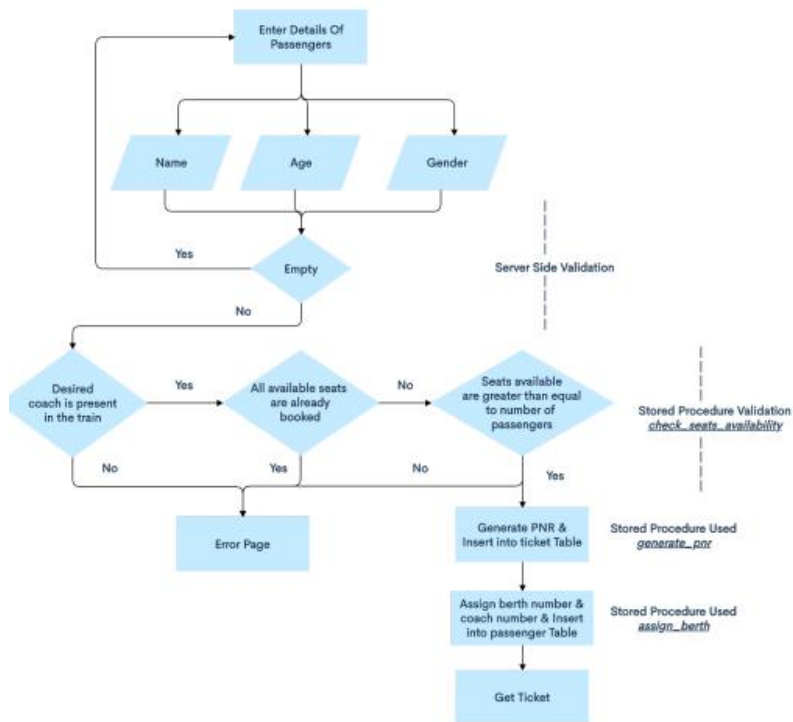
Flow chart

Ticket Booking Procedure

Step-I Checking Train Availability



Step - II Getting Passenger Details, Checking Seats Availability & Generating Ticket



PNR GENERATION

The stored procedure *generate_pnr* is used to generate PNR for a particular booking.

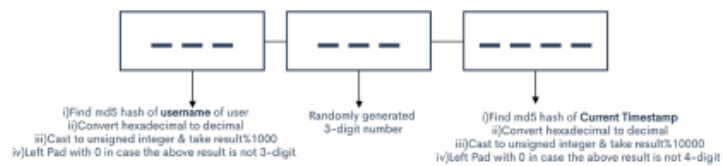


Figure Showing PNR Generation

After the PNR Number is generated, it is inserted in the ticket table along with other attributes.

Other Functionalities

I. View Ticket

Users can view the ticket by entering a valid PNR Number

II. View All Released Trains

Both admins and users can see the details (train number, date of journey, number of AC & sleeper coaches) of all released trains.

III. Check Train Status

Both admins and users can view the number of seats available for booking by entering a valid train number & date of journey.

IV. View All Users

Admins can see the details of all users registered in the system.

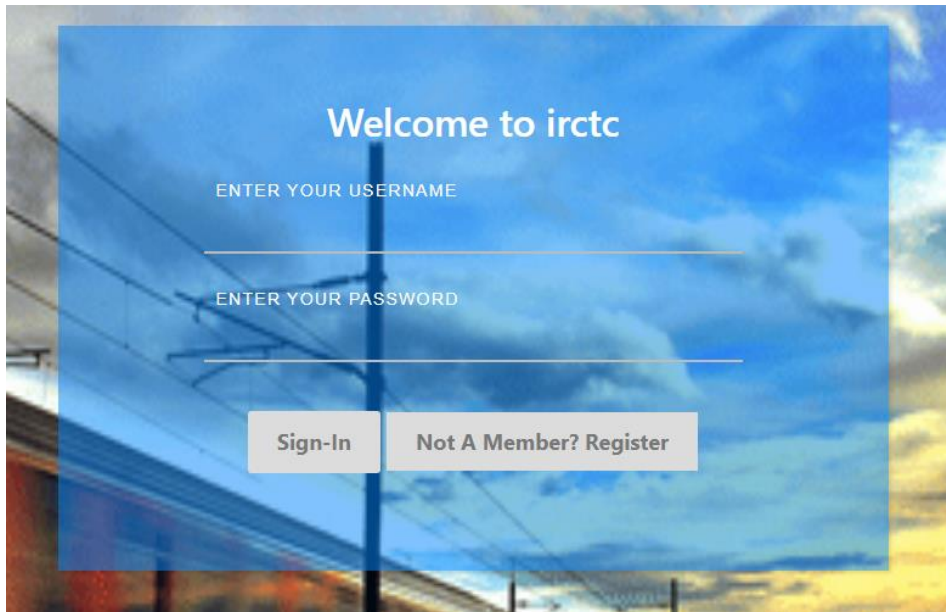
V. View All Bookings

Admins can also view details of bookings made by all the users.

VI. View Previous Bookings

All users can view the details of the bookings made by them in the past.

User Login/Register

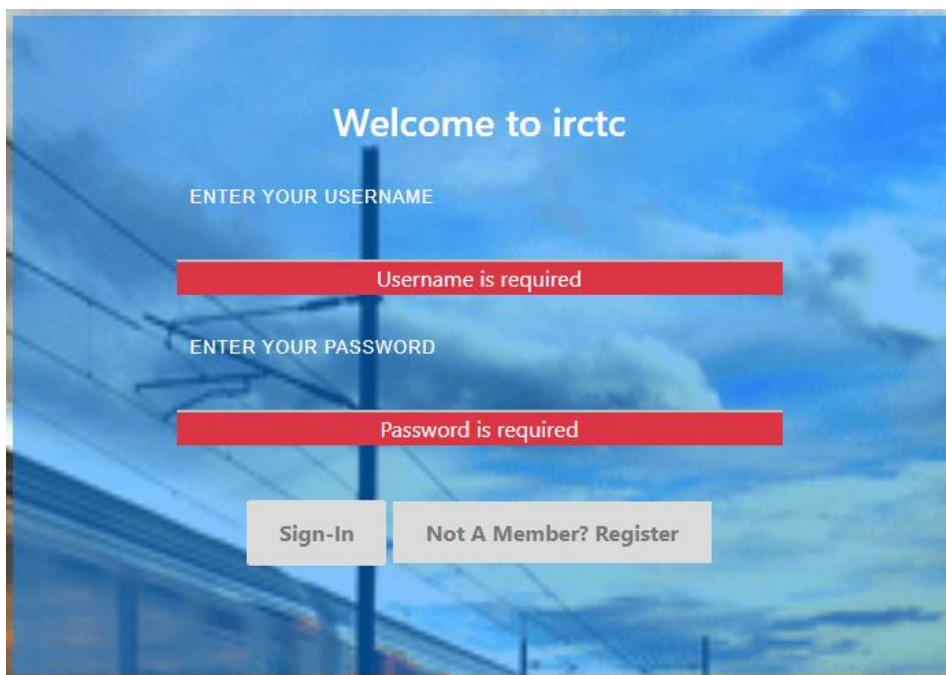


Welcome to irctc

ENTER YOUR USERNAME

ENTER YOUR PASSWORD

Sign-In Not A Member? Register



Welcome to irctc

ENTER YOUR USERNAME

Username is required


ENTER YOUR PASSWORD

Password is required

Sign-In Not A Member? Register

Validation is there if user doesn't fill input value

User register

The image shows a registration form for IRCTC overlaid on a background image of a train. The form is titled "Register on IRCTC" and contains six input fields with labels: "FULL NAME", "USERNAME", "EMAIL", "ADDRESS", "PASSWORD", and "CONFIRM PASSWORD". Each label is positioned above a horizontal input line. The background image shows a train moving along tracks under a blue sky with clouds. The entire form and image are framed by a dark blue border.

Register on IRCTC

FULL NAME

USERNAME

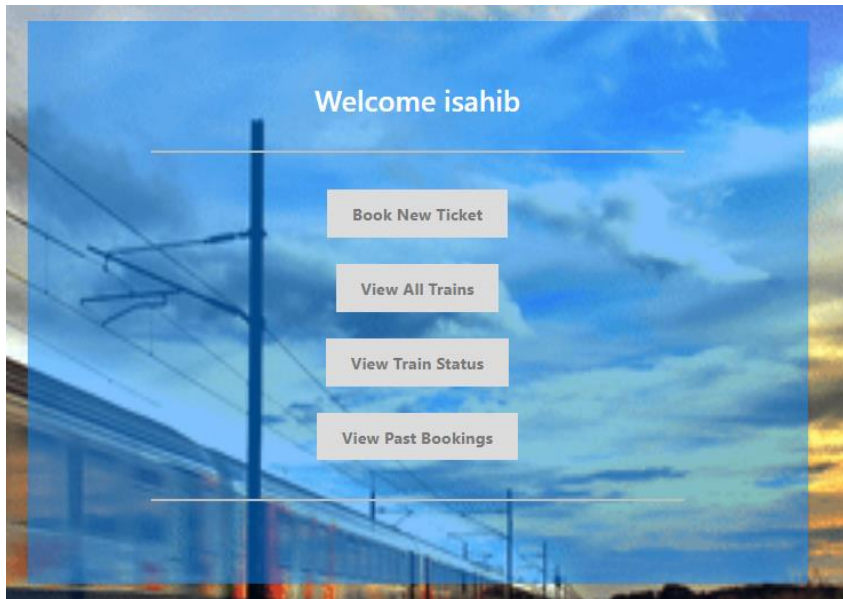
EMAIL

ADDRESS

PASSWORD

CONFIRM PASSWORD

After user login

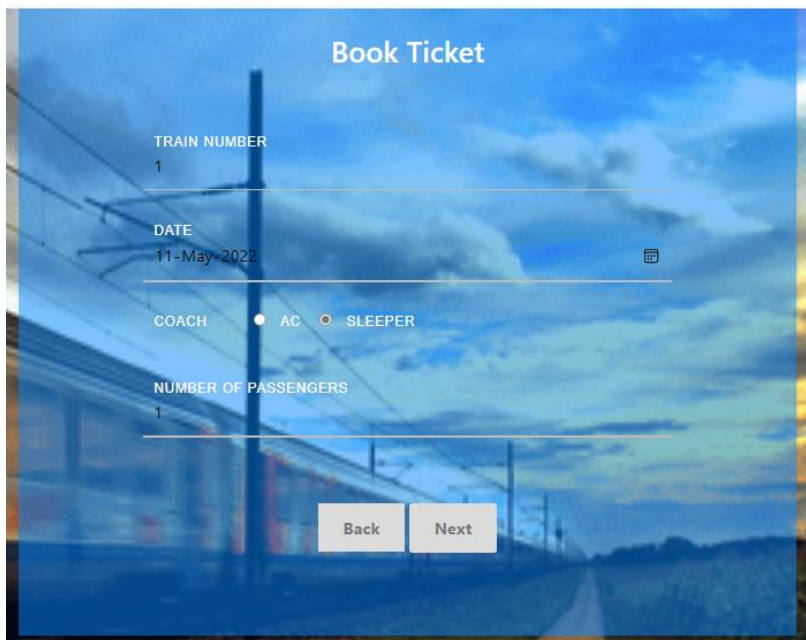


The screenshot shows a table titled "All Released Trains" with the following data:

Train Number	Journey Date	Number Of AC Coaches	Number Of Sleeper Coaches
2	2022-05-18	10	10
1	2022-05-11	10	10

Below the table, there are two buttons: "1" and "Back".

View all trains

A screenshot of a 'Book Ticket' web form. The form is overlaid on a background image of a train track under a blue sky with clouds. The form fields include: 'TRAIN NUMBER' with the value '1'; 'DATE' with the value '11-May-2022' and a calendar icon; 'COACH' with radio buttons for 'AC' (selected) and 'SLEEPER'; and 'NUMBER OF PASSENGERS' with the value '1'. At the bottom are 'Back' and 'Next' buttons.

Book Ticket

TRAIN NUMBER
1

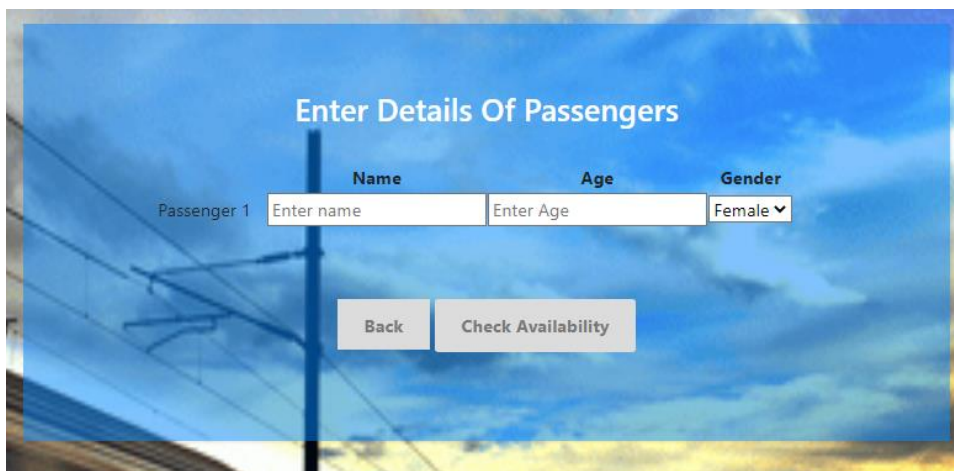
DATE
11-May-2022

COACH ☒ AC ☐ SLEEPER

NUMBER OF PASSENGERS
1

Back Next

Book ticket

A screenshot of the 'Enter Details Of Passengers' web form. The form is overlaid on the same train track background. It features a table for passenger details with columns for Name, Age, and Gender. The first row, labeled 'Passenger 1', has input fields for 'Enter name' and 'Enter Age', and a dropdown menu for 'Gender' set to 'Female'. At the bottom are 'Back' and 'Check Availability' buttons.

Enter Details Of Passengers

	Name	Age	Gender
Passenger 1	<input type="text" value="Enter name"/>	<input type="text" value="Enter Age"/>	<input type="text" value="Female"/>

Back Check Availability

passenger detail

Ticket is booked.

Congratulations!
Your ticket has been successfully booked

Booking Details

PNR NUMBER	488-936-2272
Coach Type	sleeper
Train Number	1
Date Of Journey	2022-05-11
Number Of Passengers	1
Booked By	isahib

Passenger Details

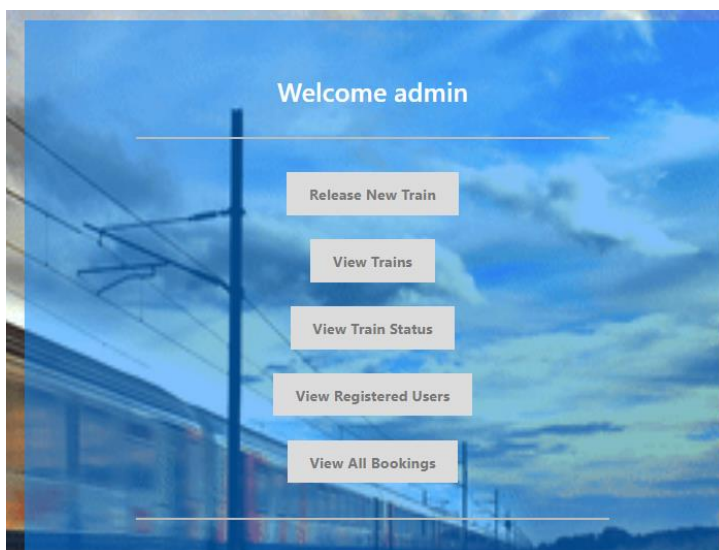
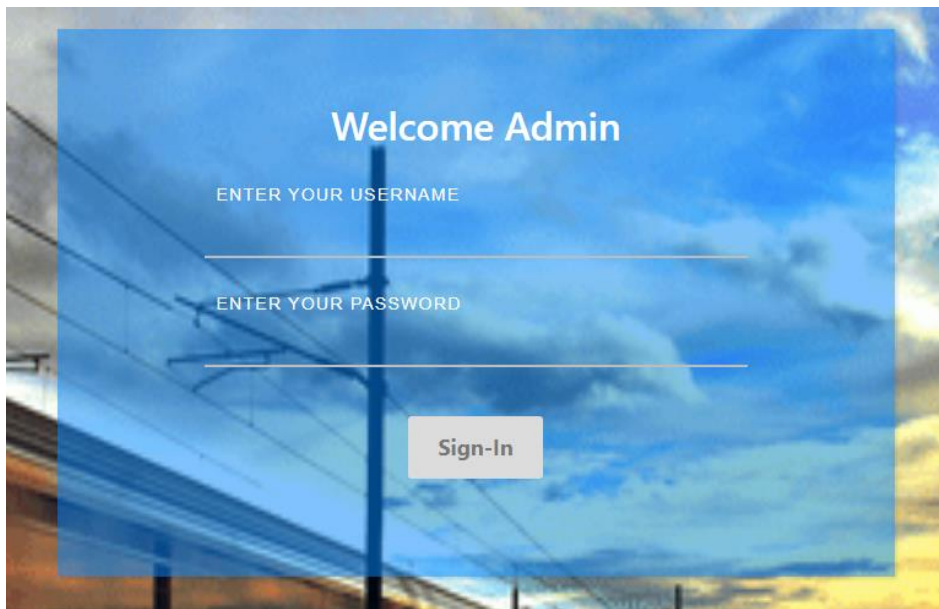
Name	Berth Number	Berth Type	Coach Number
Sahib Singh	1	LB	1

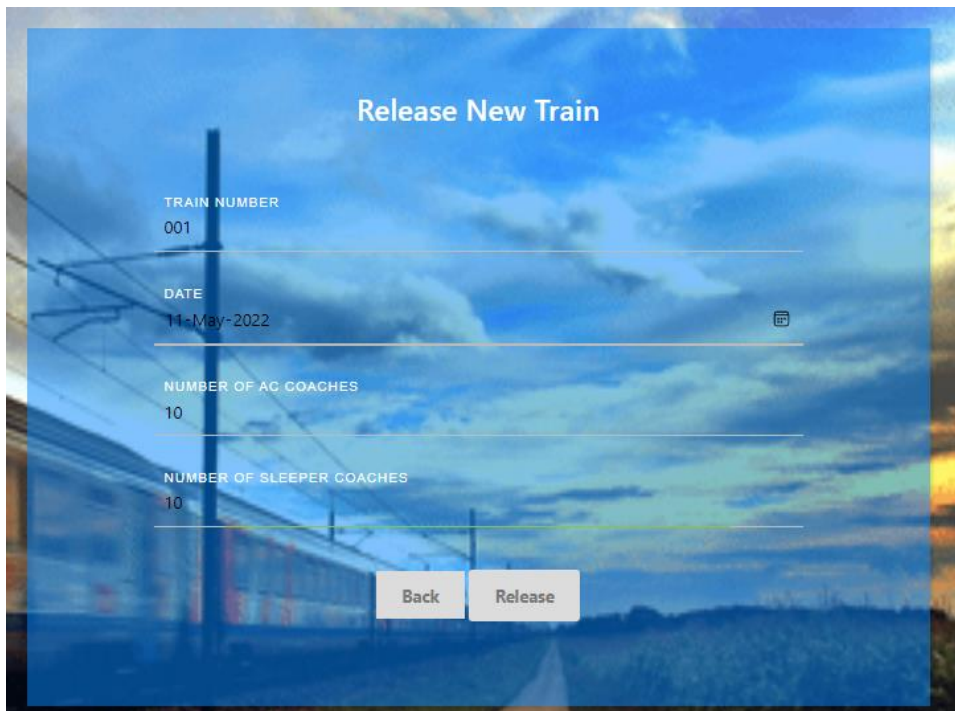
Have a Safe Journey!

[Home](#) [Print Ticket](#)

There is option to Print Ticket too.

Admin Login/Register





The image shows a web form titled "Release New Train" overlaid on a background image of a train. The form contains four input fields: "TRAIN NUMBER" with the value "001", "DATE" with the value "11-May-2022" and a calendar icon, "NUMBER OF AC COACHES" with the value "10", and "NUMBER OF SLEEPER COACHES" with the value "10". At the bottom of the form are two buttons: "Back" and "Release".

Release New Train

TRAIN NUMBER
001

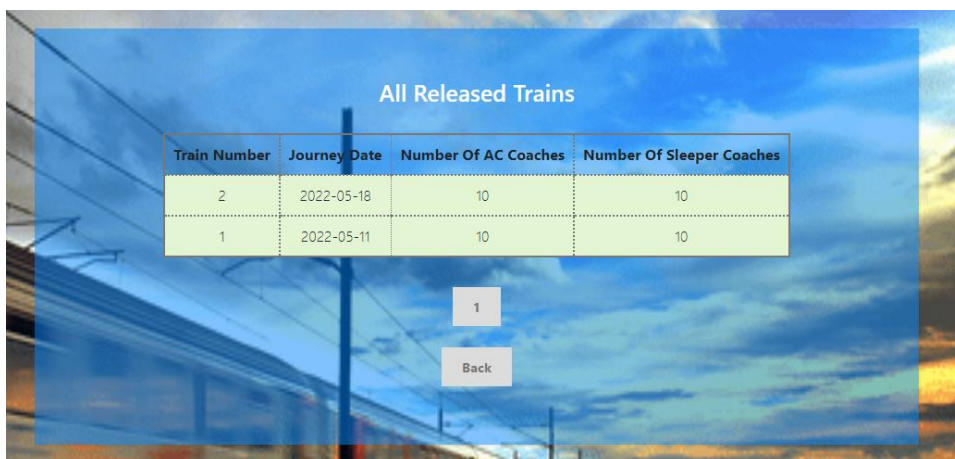
DATE
11-May-2022

NUMBER OF AC COACHES
10

NUMBER OF SLEEPER COACHES
10

Back Release

Admin can release new train



The image shows a web page titled "All Released Trains" displaying a table of released trains. The table has four columns: "Train Number", "Journey Date", "Number Of AC Coaches", and "Number Of Sleeper Coaches". There are two rows of data. Below the table are two buttons: "1" and "Back".

All Released Trains

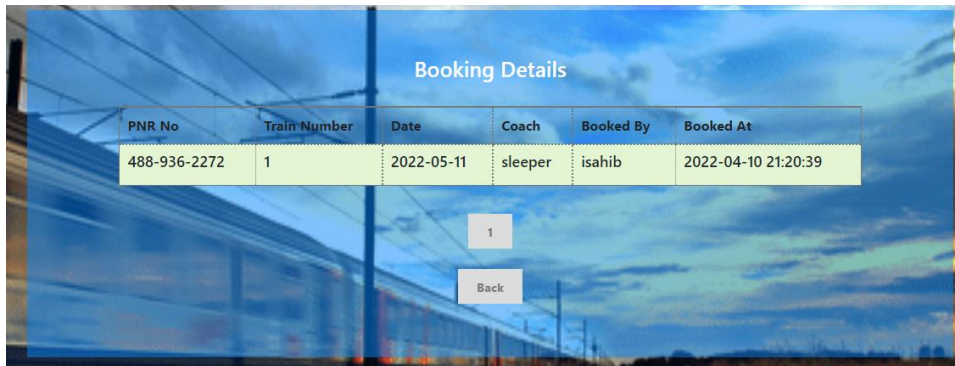
Train Number	Journey Date	Number Of AC Coaches	Number Of Sleeper Coaches
2	2022-05-18	10	10
1	2022-05-11	10	10

1

Back

All released trains are shown

View all bookings



The screenshot displays a web application interface for train bookings. The background is a blurred image of a train moving through a landscape. Overlaid on this is a 'Booking Details' section. It features a table with six columns: PNR No, Train Number, Date, Coach, Booked By, and Booked At. Below the table, there are two buttons: one labeled '1' and another labeled 'Back'.

PNR No	Train Number	Date	Coach	Booked By	Booked At
488-936-2272	1	2022-05-11	sleeper	isahib	2022-04-10 21:20:39

1

Back

Section 5

LINK OF GITHUB

[sahib-ldh/int220_ca3 \(github.com\)](https://github.com/sahib-ldh/int220_ca3)