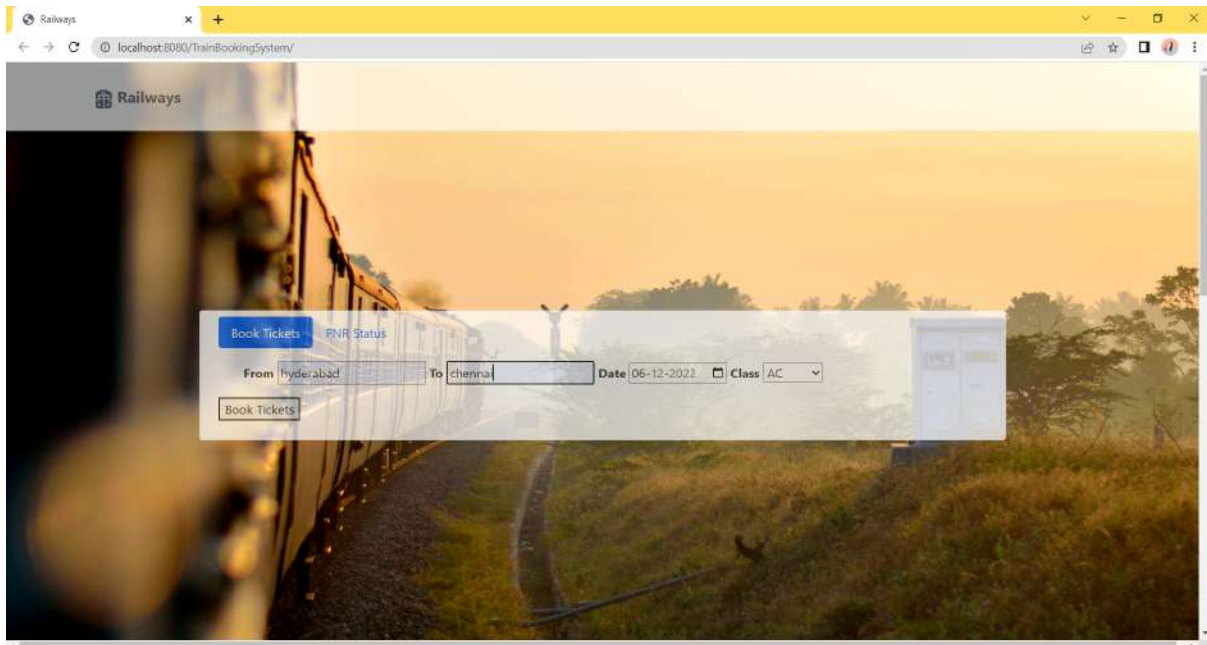


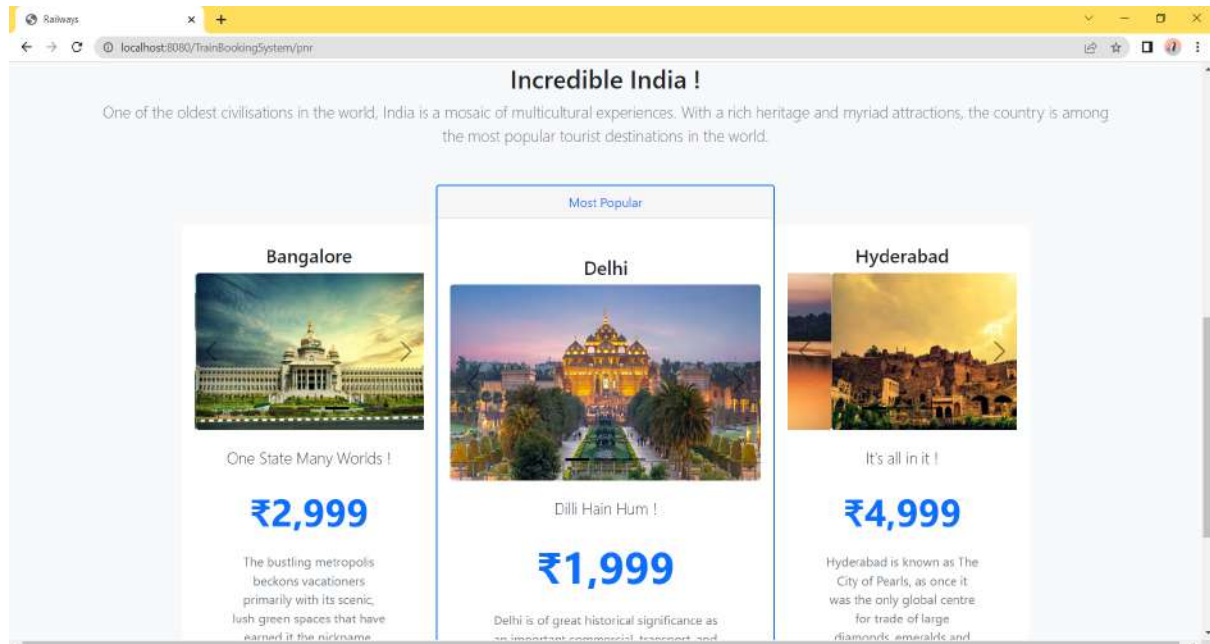
Train Booking System

Landing Page:

User can access 2 section in this page without the need for login

- plan your journey and see available trains
 - By entering the journey details like source , destination , date and seat type.
- Check pnr status
 - By entering pnr no.

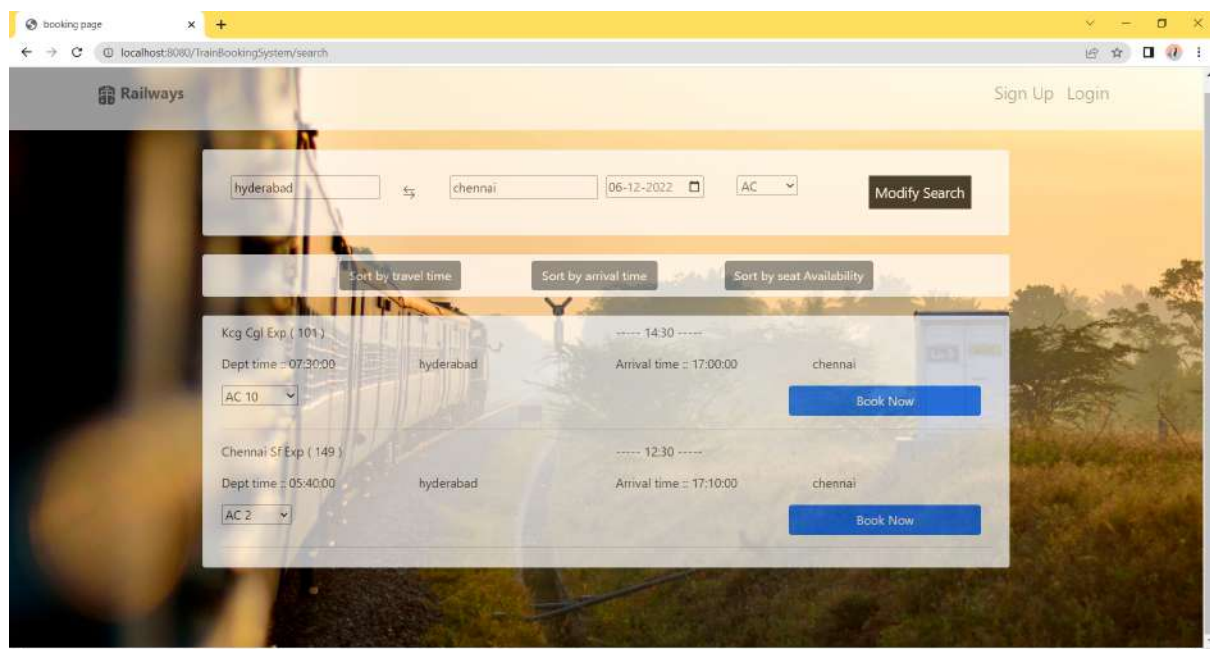




Booking page:

After you have entered your journey details in the index page , upon hitting submit it will lead you to this page.

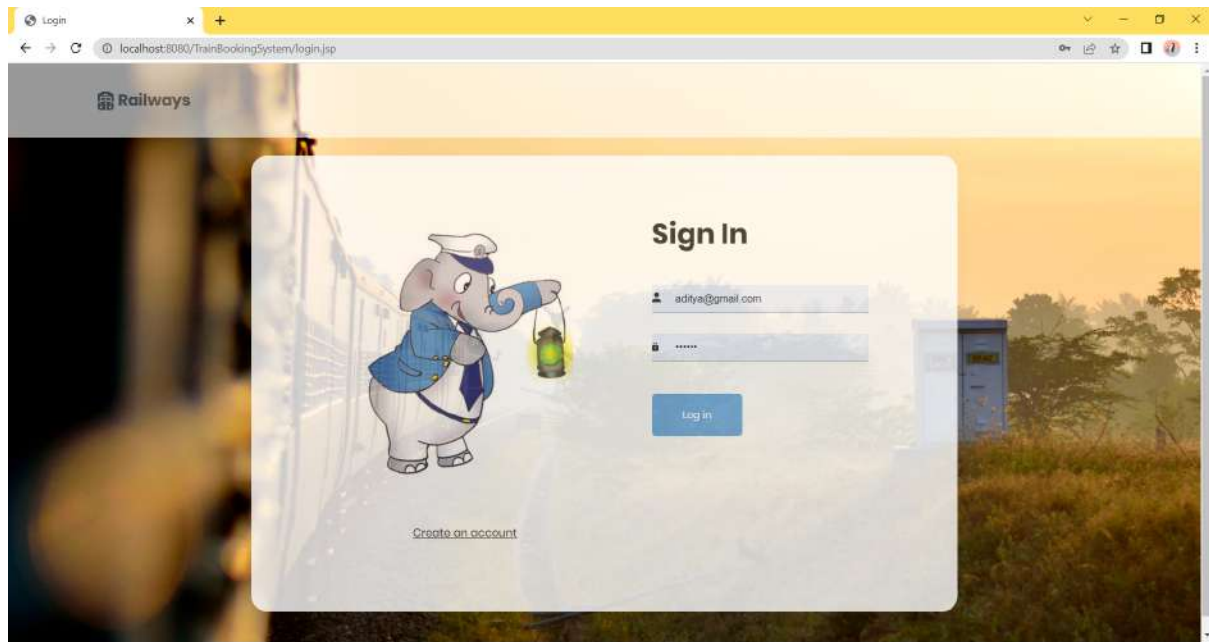
- Here you can access the list of trains available for that journey
- And you can sort the trains based on their arrival time, duration or seat availability based on the seat type chosen
 - Sorting is done with the help of the comparator method create on the train class and then using it with ArrayList
- Also you will have the option to modify your search
- Once you have decided what train to book then you can hit book now button
- So if you have not logged in then it will redirect you to the login page



Login page:

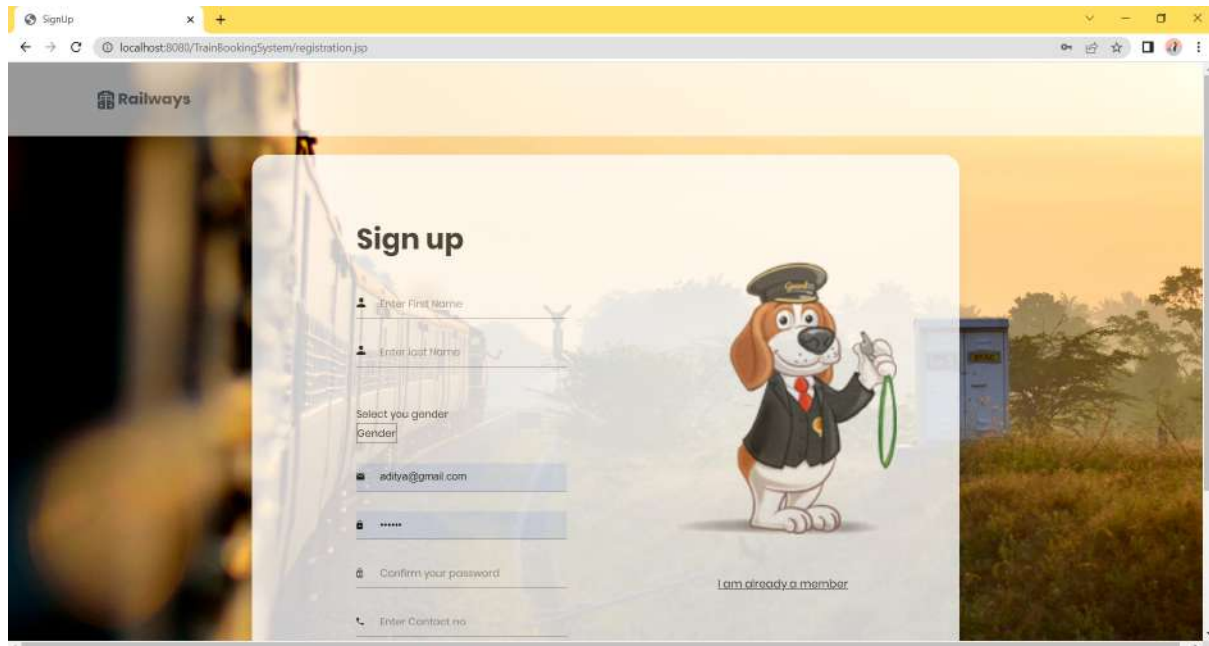
Enter your email and password to login

If this is your first time then you will have to register by clicking on create an account link



Registration page:

Enter the said details to register yourself in the system

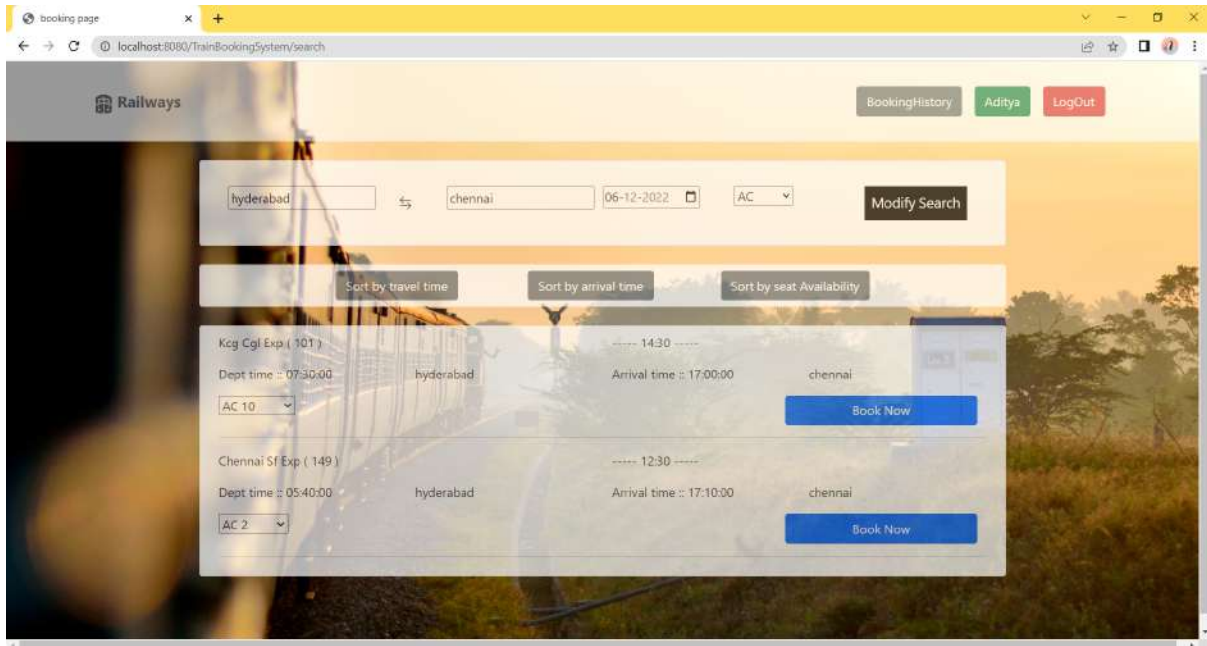


Upon successful registration , you will be redirected to login page and will be asked to login again then after that it will take you to the booking page where you can continue you booking your tickets

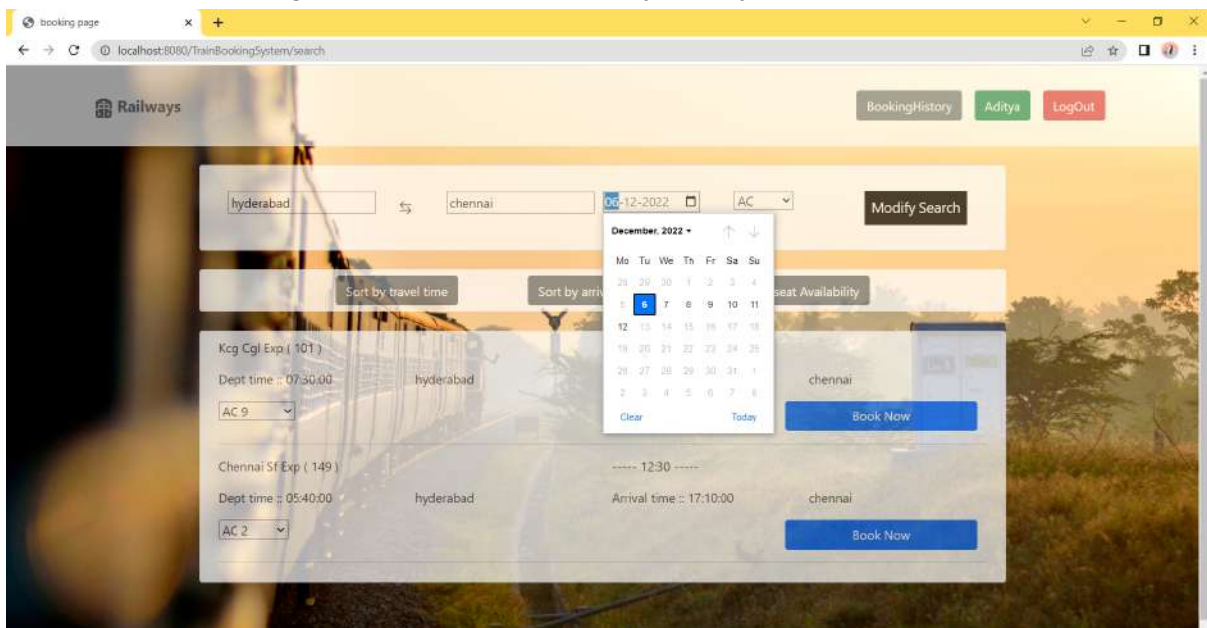
You will see some changes in the nav bar as there is no login or signup button is there but 3 new buttons appear , namely:

- Booking history

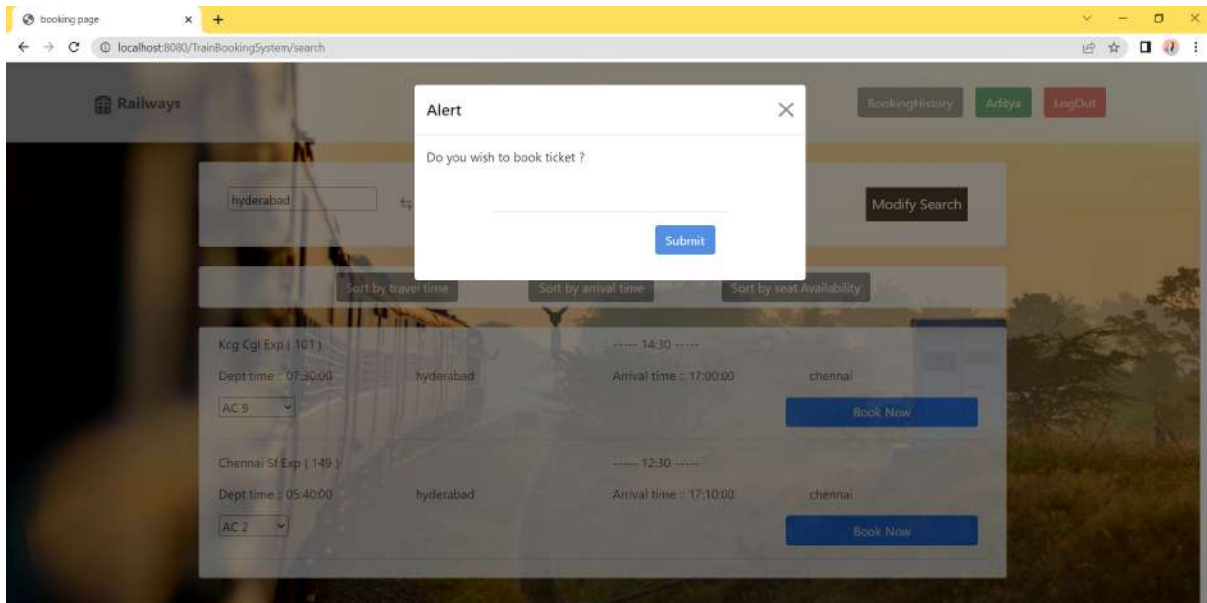
- Profile
- logout



Also back date booking has been restricted to only 10 days

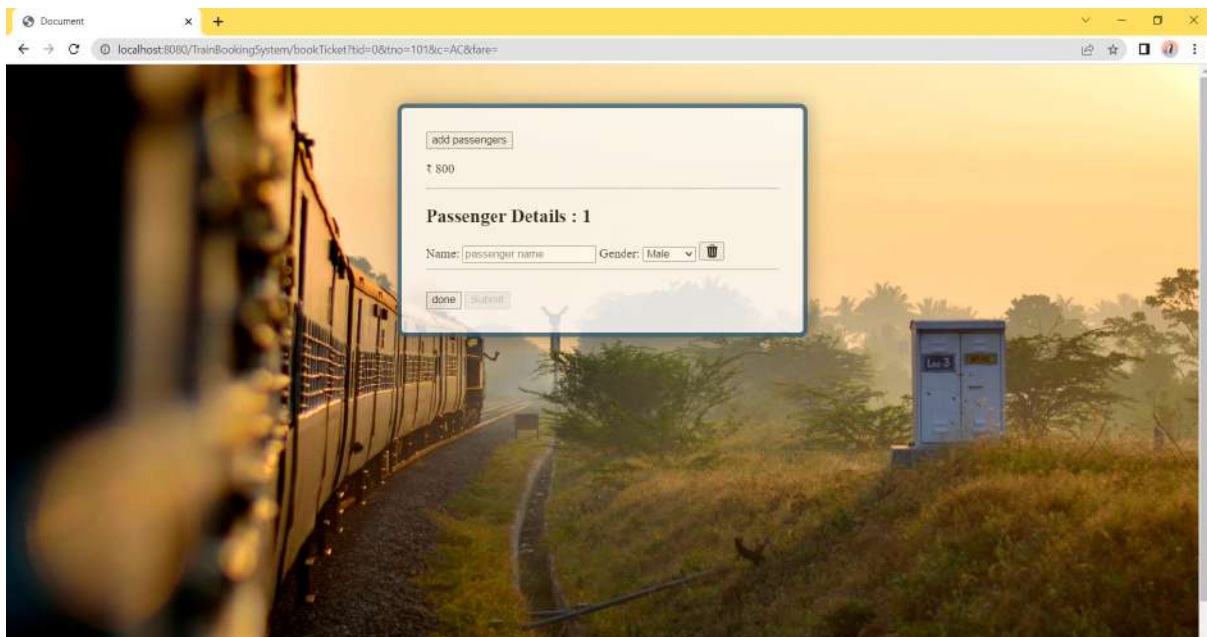


Upon clicking book now user will get this alert msg asking for confirmation

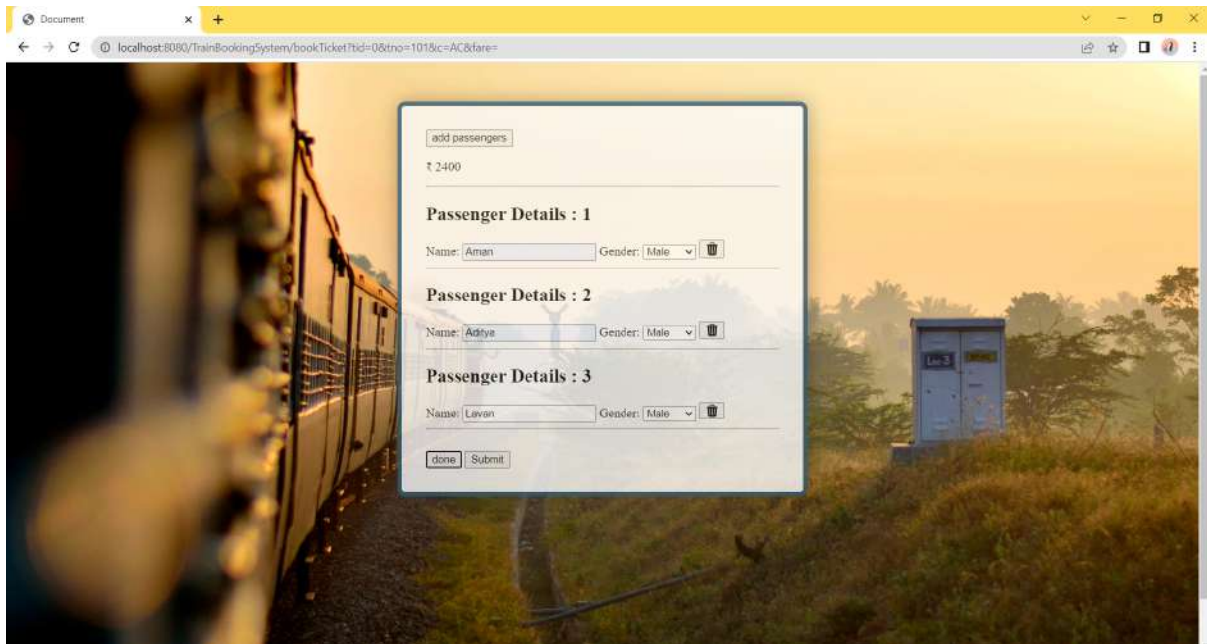


When clicked on submit will take the user to a new page where they are suppose to enter the passenger details

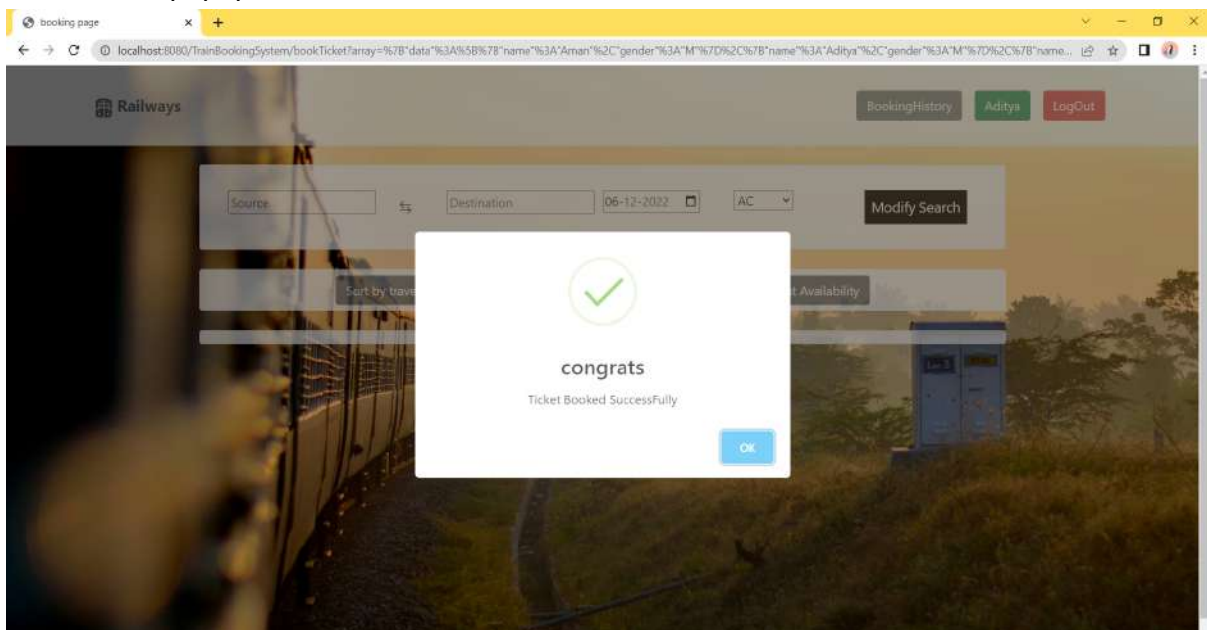
Add passenger page:



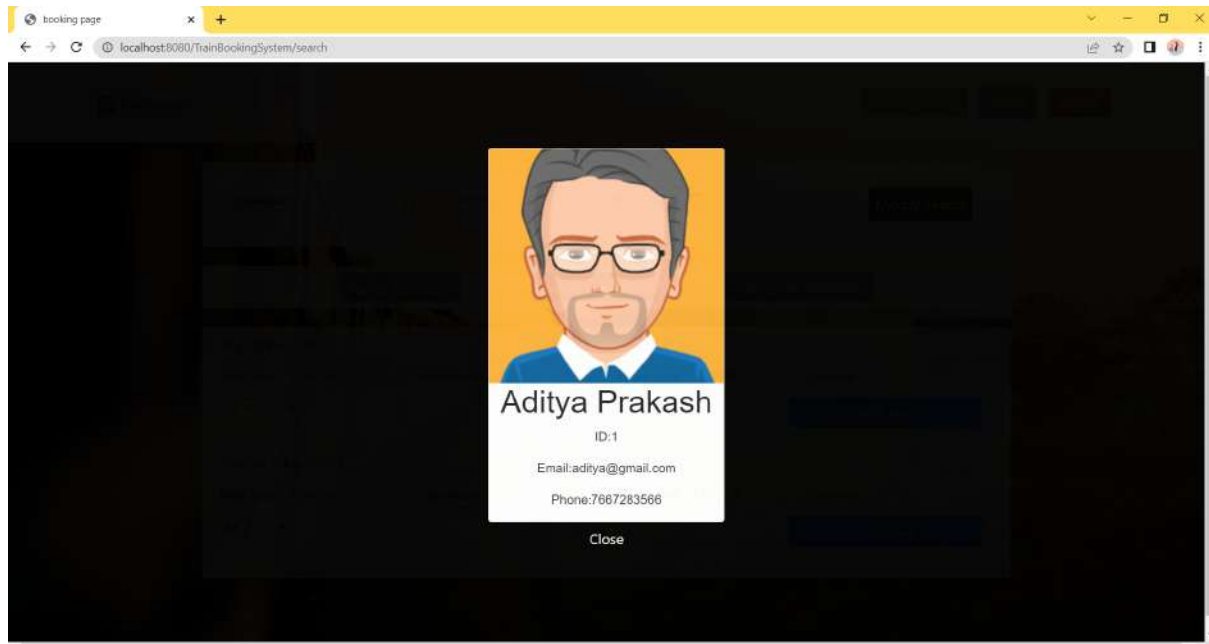
The total price is listed on top and will change upon adding new passenger or removing an existing passenger



When clicked on submit the user will be taken back to the booking page and this confirmation popup will be shown



Profile page:
This is where logged in user can see their info



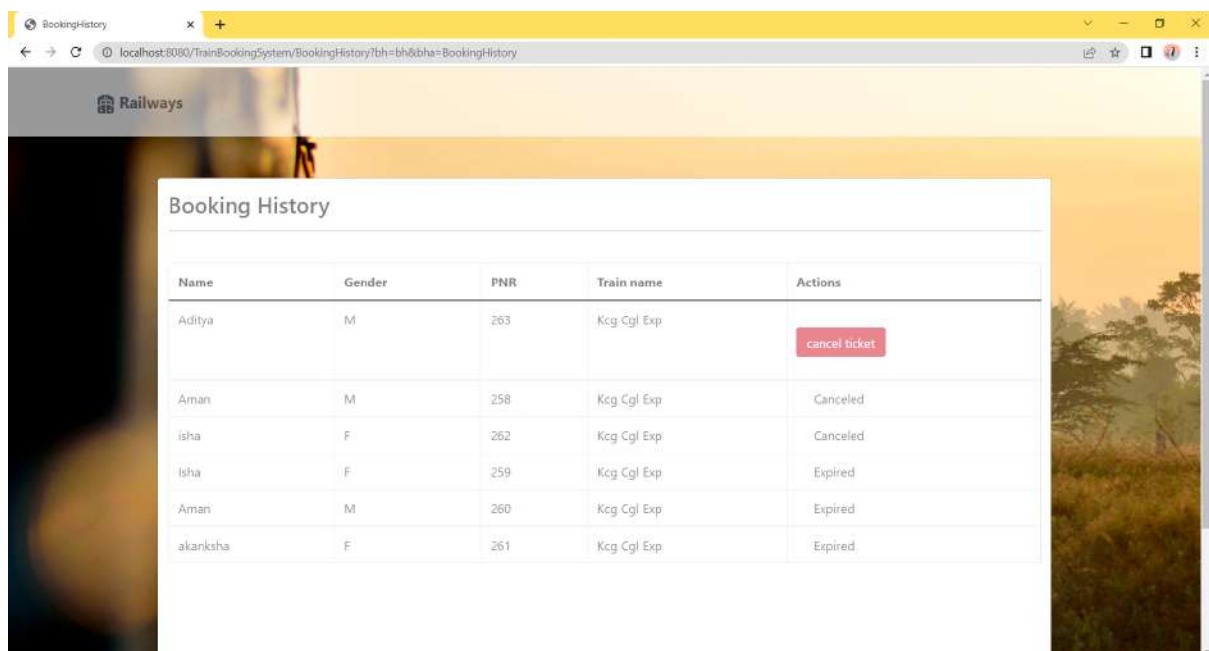
Booking History Page:

This is where user can access their booking records and cancel their tickets

So 3 things happen on this page

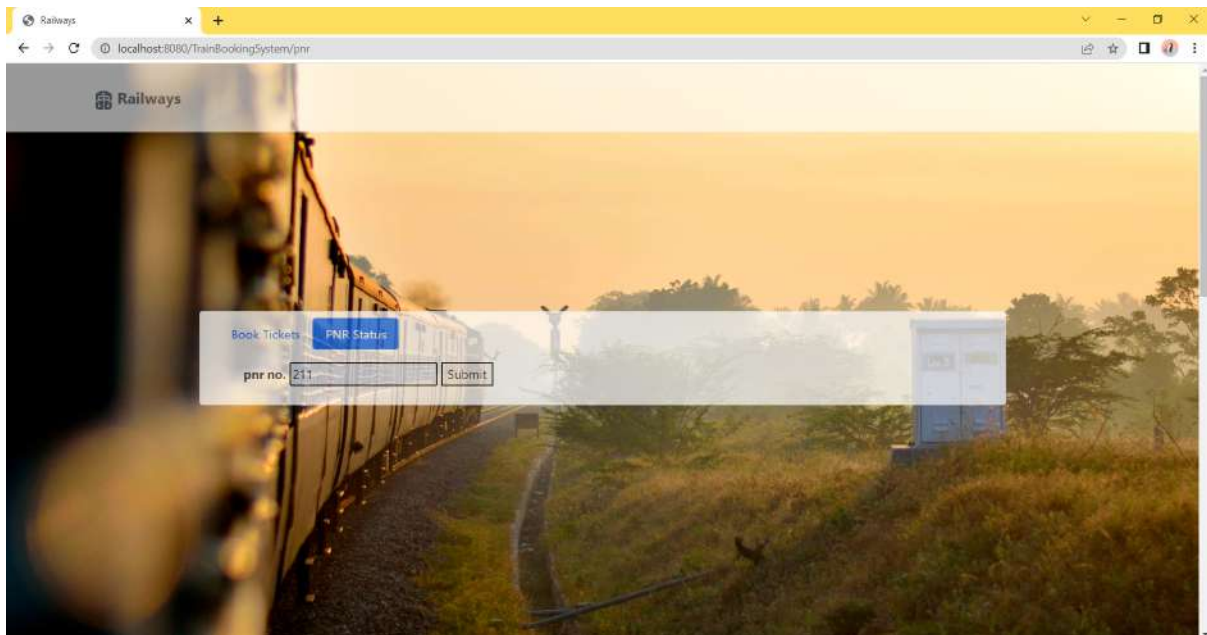
1. If the current date is $>$ date of booking means that the journey has started and the ticket will be deemed as expired
2. If the current date is \leq date of booking means that the ticket is still active and will have cancel option
3. And then there is already cancelled ticket

So records are sorted by their status and then date of booking using sql query

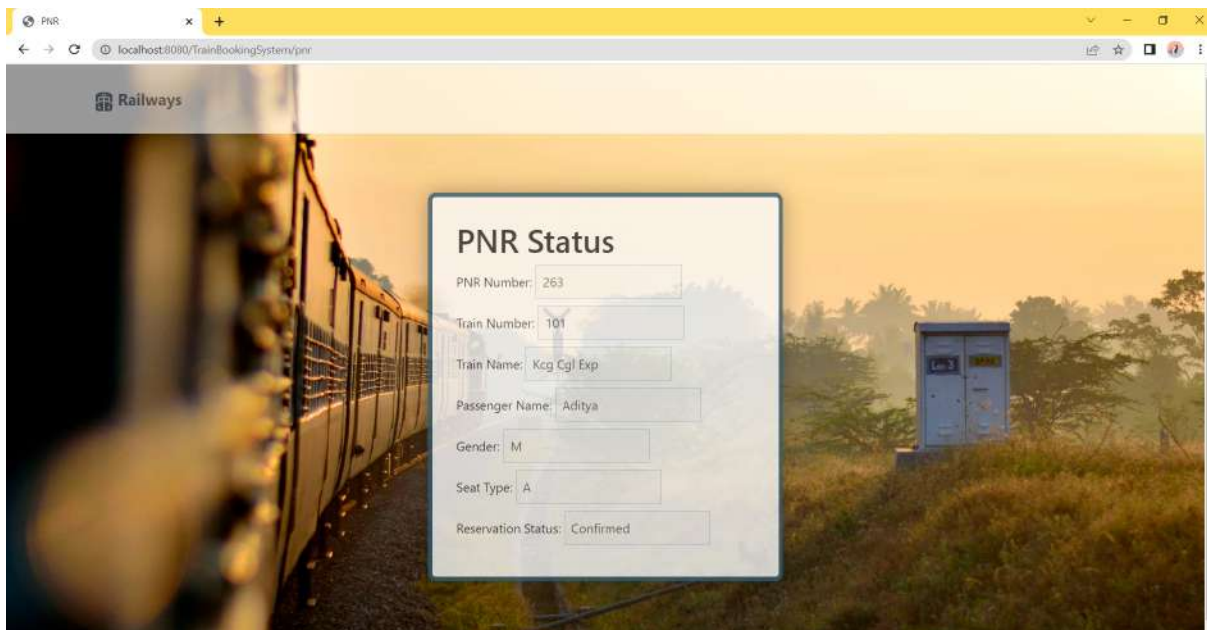


Pnr interface

- Check pnr status
 - By entering pnr no.

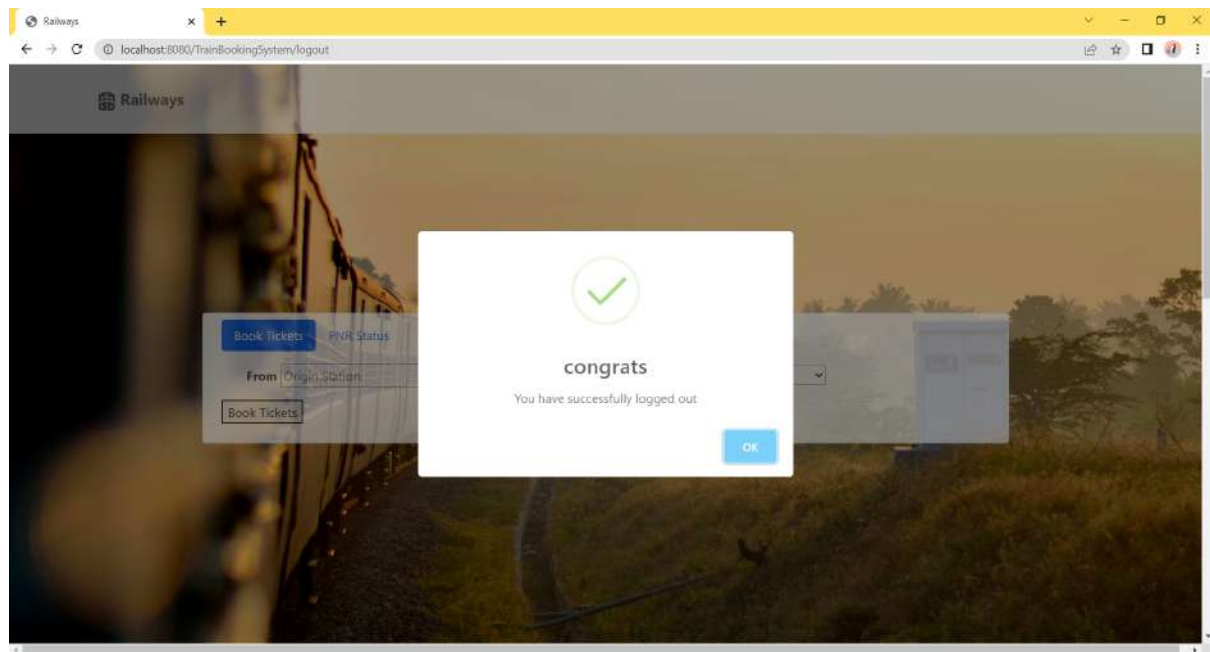


This is the pnr window



Logout page:

Once logged out, it will redirect you to this index page

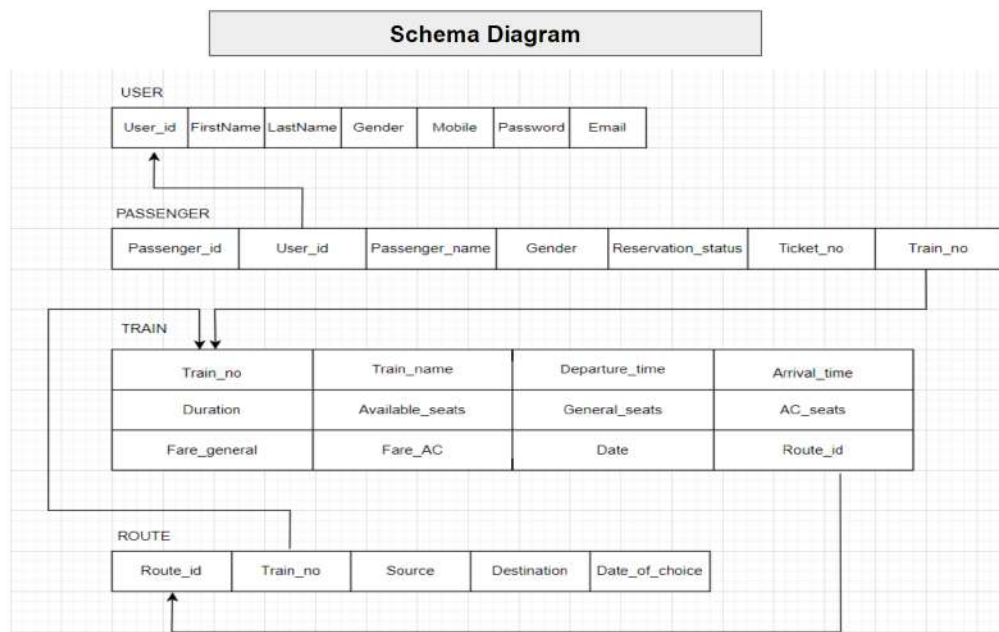


Database

So we have created 4 tables for this project

1. User
2. Passenger
3. Routes
4. Trains

To have a better visualisation of the database we have create this Schema diagram



Then showing some entires from the table

User

	User_id	FirstName	LastName	Gender	Mobile	Email	Password
	1	Aditya	Prakash	M	7667283566	aditya@gmail.com	aditya
	2	Aman	Singh	M	7667283577	aman@gmail.com	aman
	4	test	acc	M	7667283500	test@gmail.com	test
	5	test1	acc1	M	7667283511	test1@gmail.com	test
	6	Sarika	Bali	F	7667283333	sarika@gmail.com	sarika
	7	Lavan	Andhava...	M	7667283535	lavan@gmail.com	lavan
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Trains

	Train_no	Train_name	Arrival_time	Departure_time	Duration	Availability_of_seats	General_seats	AC_seats	Fare_general	Fare_AC
	100	Kcg Cgl Exp	17:00:00	07:30:00	870	59	51	8	400.00	800.00
	101	Kcg Cgl Exp	17:00:00	07:30:00	870	56	50	6	400.00	800.00
	102	Kcg Cgl Exp	17:00:00	07:30:00	870	60	50	10	400.00	800.00
	103	Kcg Cgl Exp	17:00:00	07:30:00	870	60	50	10	400.00	800.00
	104	Kcg Cgl Exp	17:00:00	07:30:00	870	60	50	10	400.00	800.00
	105	Kcg Cgl Exp	17:00:00	07:30:00	870	60	50	10	400.00	800.00
	106	Chennai Hyderabad Exp	16:45:00	05:45:00	780	60	40	20	415.00	1000.00
	107	Chennai Hyderabad Exp	16:45:00	05:45:00	780	60	40	20	415.00	1000.00
	108	Chennai Hyderabad Exp	16:45:00	05:45:00	780	60	40	20	415.00	1000.00
	109	Chennai Hyderabad Exp	16:45:00	05:45:00	780	60	40	20	415.00	1000.00

Routes

	Route_id	From_city	To_city
	1	CHENNAI	HYDERABAD
	2	CHENNAI	BANGALORE
	3	CHENNAI	MUMBAI
	4	CHENNAI	DELHI
	5	HYDERABAD	CHENNAI
	6	HYDERABAD	BENGALORE
	7	HYDERABAD	MUMBAI
	8	HYDERABAD	DELHI
	9	BENGALORE	CHENNAI
	10	BENGALORE	HYDERABAD
	11	BENGALORE	MUMBAI

Passenger

Passenger_id	User_id	Passenger_name	Gender	Reservation_status	PNR	Train_no	SeatType
1	1	Aman	M	0	258	100	G
2	1	Isha	F	-1	259	100	A
3	1	Aman	M	-1	260	100	A
4	1	akanksha	F	-1	261	100	A
5	1	isha	F	0	262	100	A
6	1	Aditya	M	1	263	101	A
7	1	Aman	M	1	264	101	A
8	1	Aditya	M	1	265	101	A
9	1	Lavan	M	1	266	101	A
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Database code will be shared in a separate file

Technology Used in this are:

For backend we used Java, JSP, Servlet,

For database we use MySQL Workbench for creating the database and JDBC for database connection

For frontend we used Bootstrap , HTML, CSS and JavaScript

Project link : <https://github.com/Aditya1405/TrainBookingSystem.git>

So we have successfully delivered the client requirements addressed in review 1.

Thank You,

Regards

Aditya Prakash