MYCAB (TAXI BOOKING SYSTEM)

1. Background

In today's traffic world, taxi plays a major role when a person wants to move from one place to another. Here in Rwanda transportation of people through taxi(cab) it's not easy to get one when you need it so that's why mycab will help you when you need it you have to book it only.

In my taxi Booking System(mycab), people can easily book a taxi. Users have to pick-up point & destination, date & time. Users will get a list of All the bookings date & time in order to know when my car is available.

3 functional and 2 non functional requirement

Functional requirement

View private booking

Book for private cab

manage booking (view booking and cancel booking)

book mycab (normal booking)

Non functional

accessibility: mycab web app can be accessible at any device pc, phones and tablets

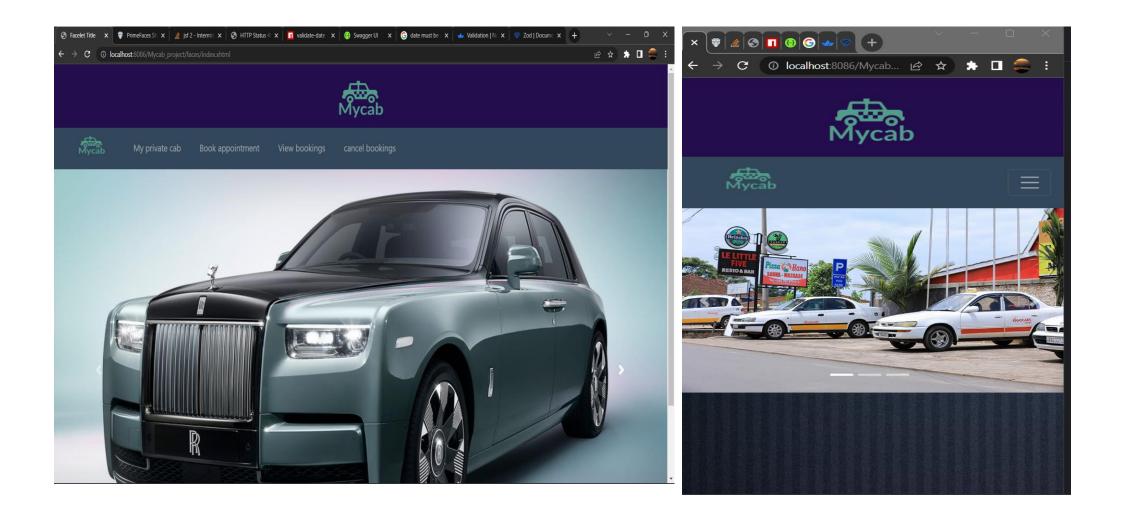
performance: fast response time no request take longer than 5 seconds

user interface requirement

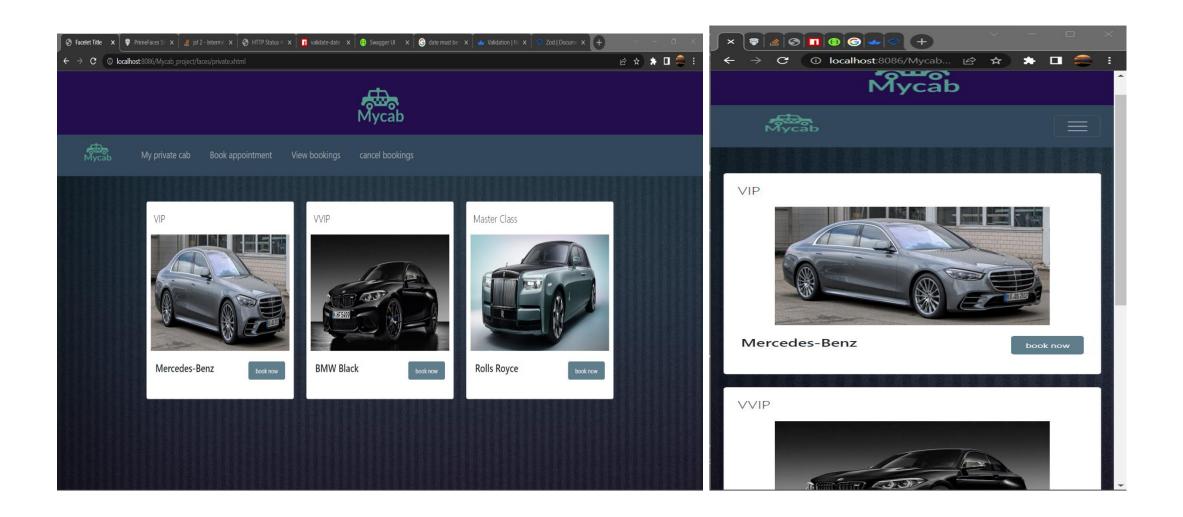
intuitive: nice and easy to use

responsive its look good on different device by using(bootstrap)

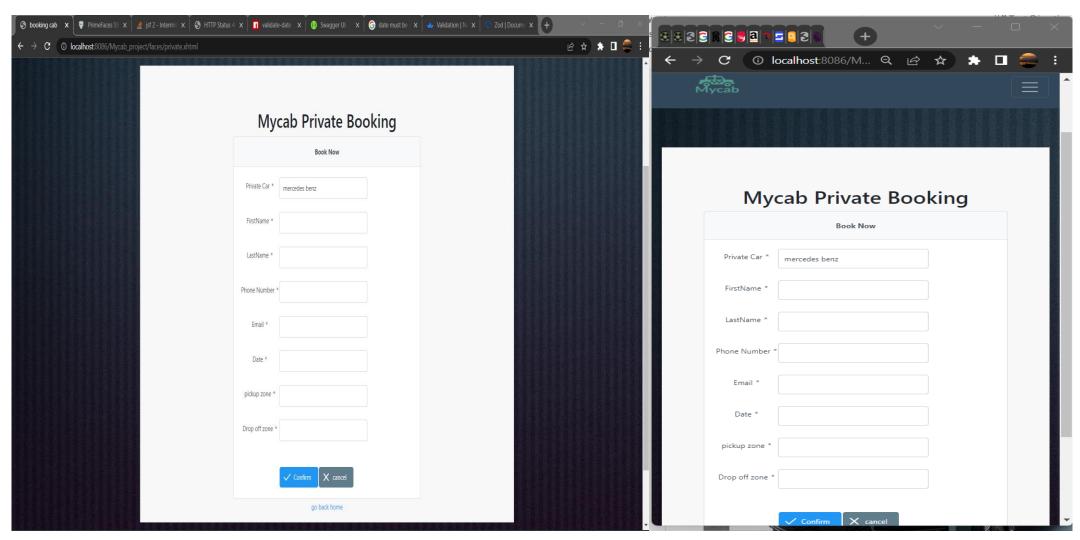
Mycab is responsive everywhere it look good on phone, laptop or on any other device



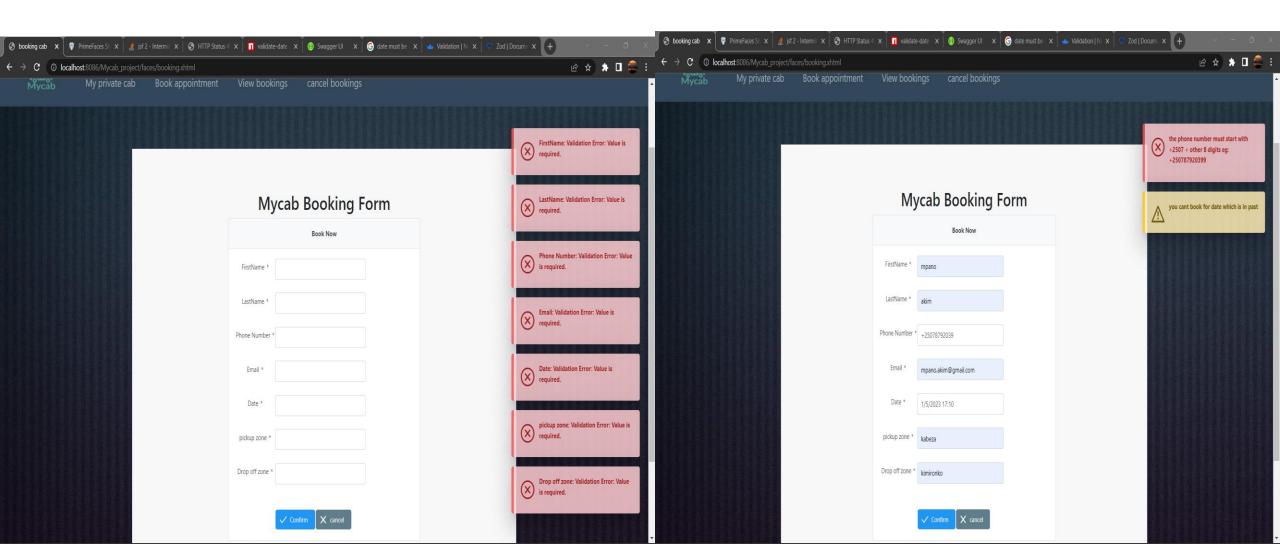
You can view and choose which private cab you want and book it



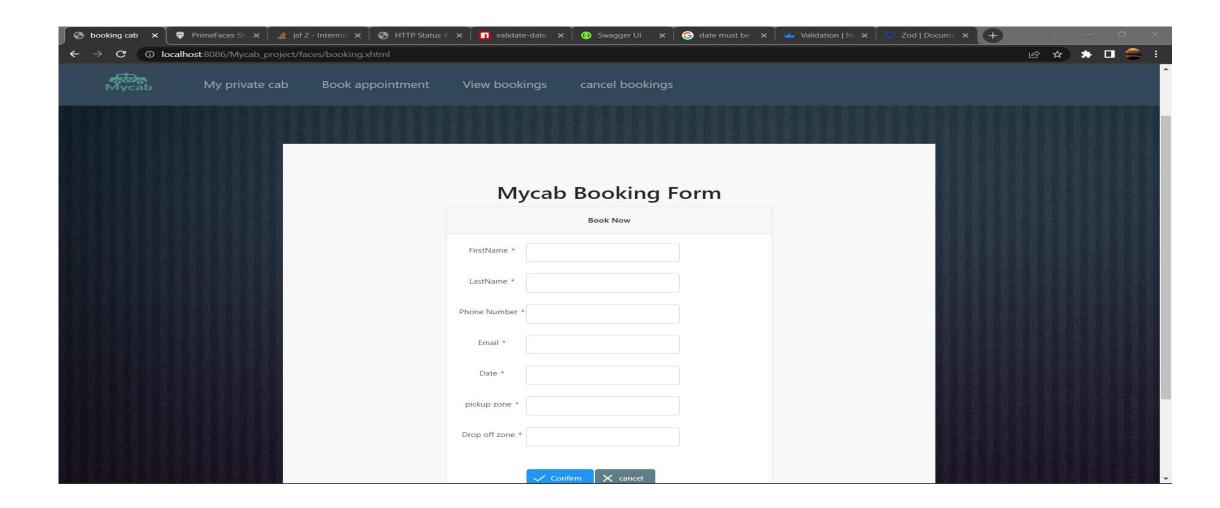
After choosing which private cab you want you will see private booking form with your car you choose on private car field which is readable only you can't edit it



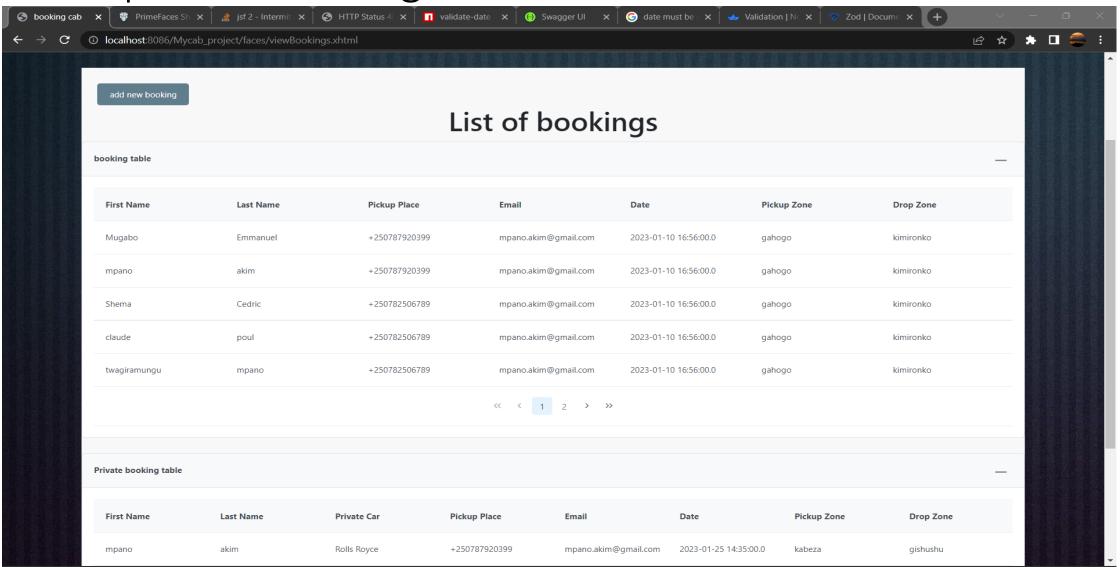
The form has validation on it before you submit you have to meet with our validation rules example: you cant book in past date or phone number must be Rwandan, etc



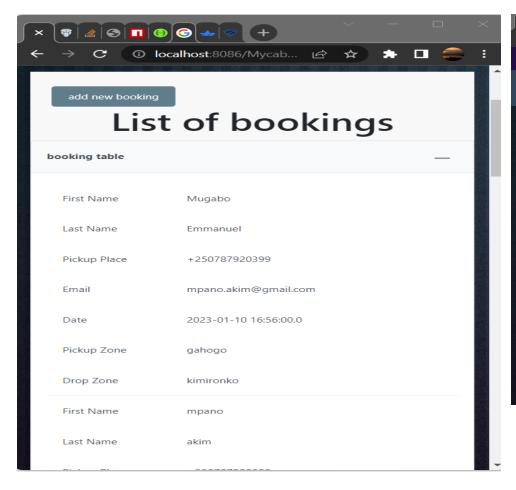
You can also book normal booking with normal cab

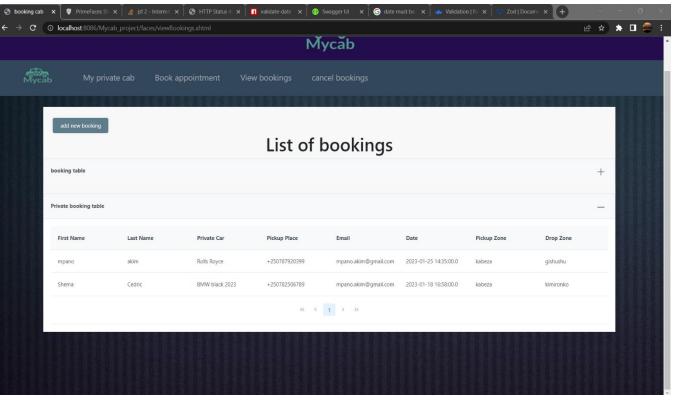


You can also view the list of booking which are normal and private booking tables

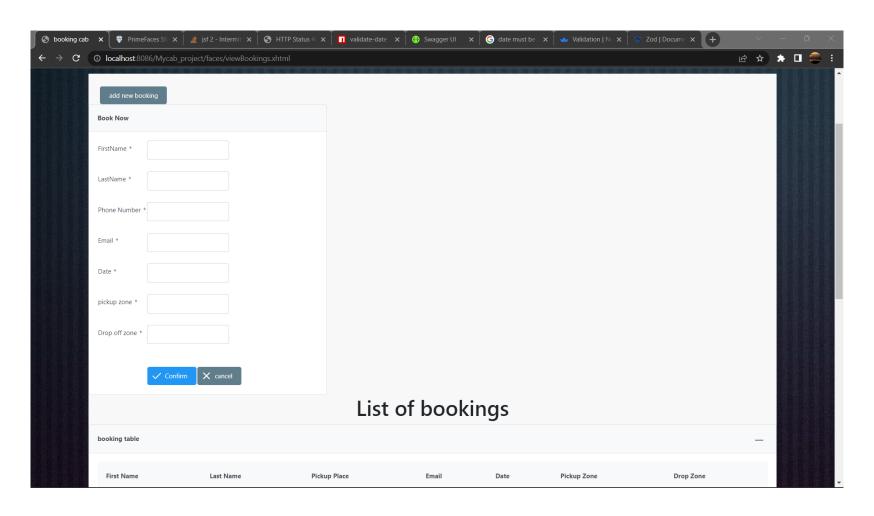


The table also is responsive you can view your data very well on or device

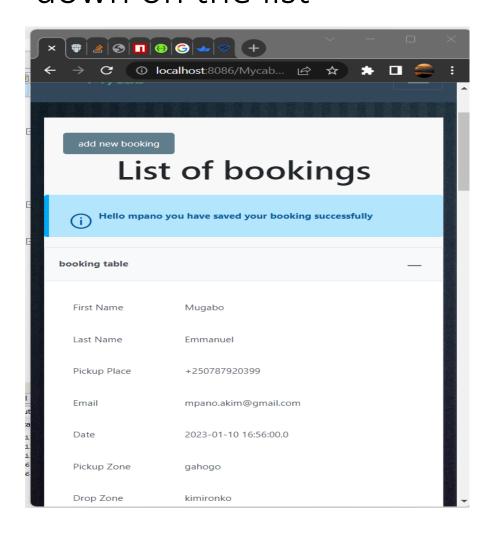




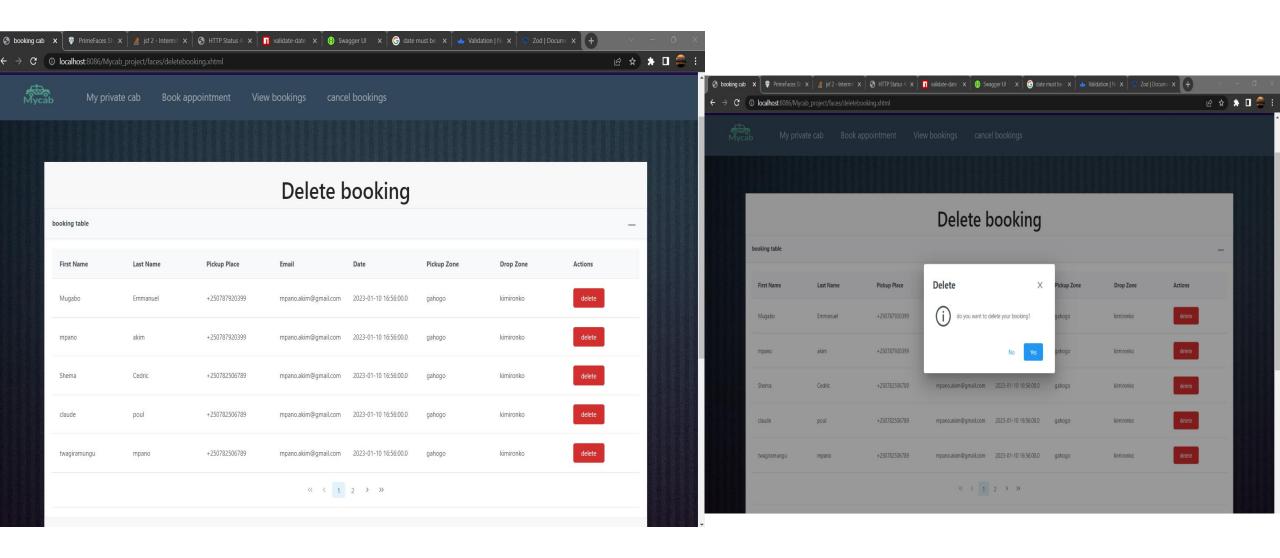
Using ajax by clicking on add new user on viewbookings you can see the form and book their



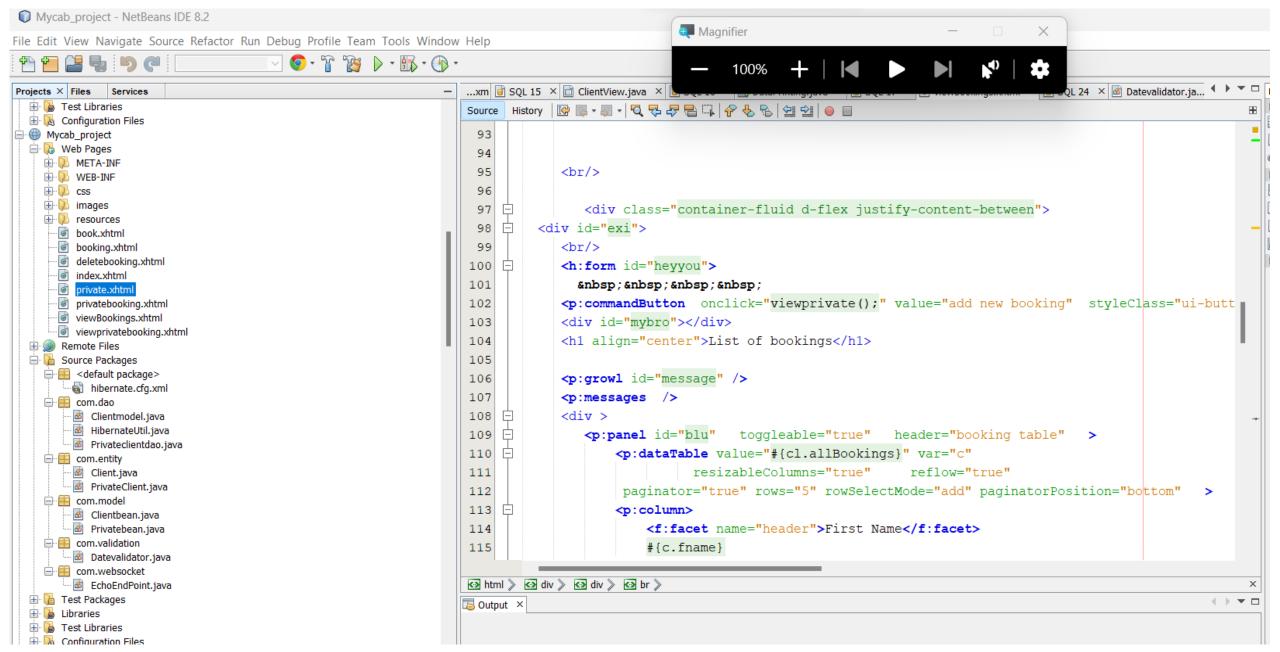
If you meet all validation you can submit your form and you will be automatically redirect on viewbookings with message telling you that you have saved your booking and you will see it down on the list



You can also click on cancel booking and see the table with all booking and action button for delete if you click it you can see confirmation dialog if you click yes it will delete it automatically

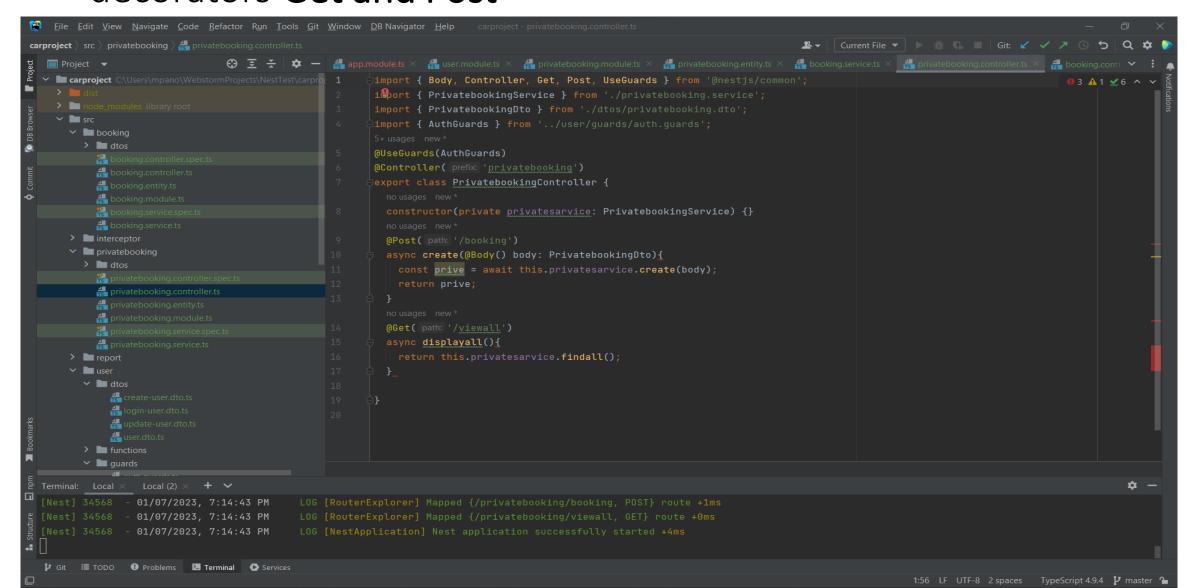


This is the structure of mycab project

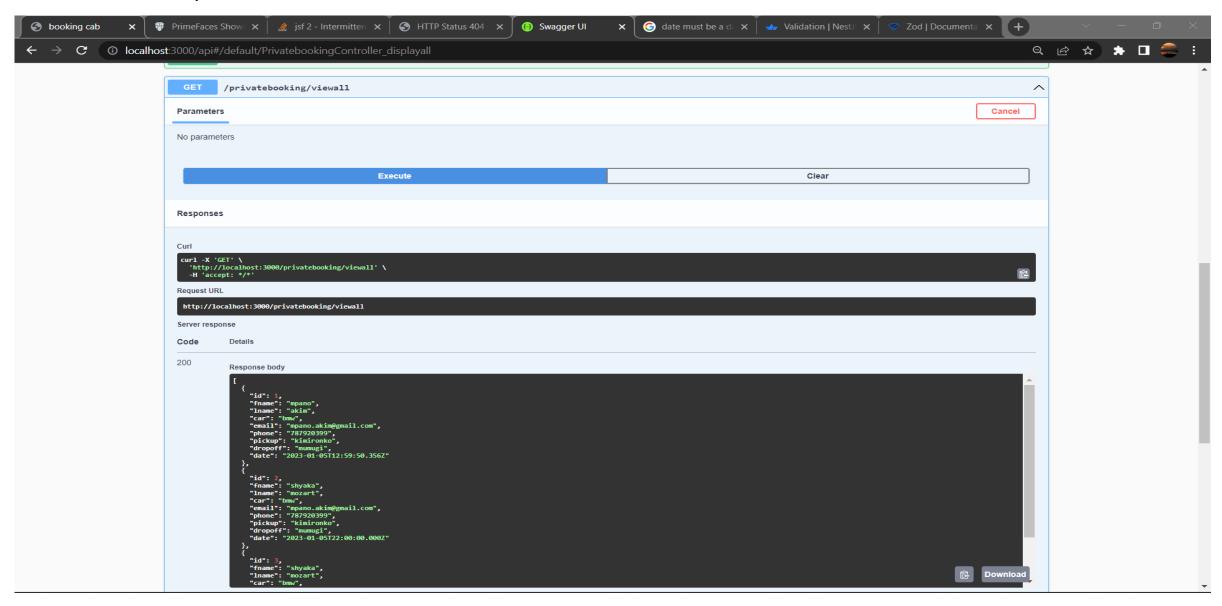


Using nestjs which is a server side node.js framework I have build mycab backend application I tried to work on many features of my application like users Authentication and authorization where I have admin and normal users which are client. Client are not allowed to delete an user or booking and other things like validation of data all field or input has it's own validation and also you cant perform any request without login except signup and login other wise you will get 403 forbidden request

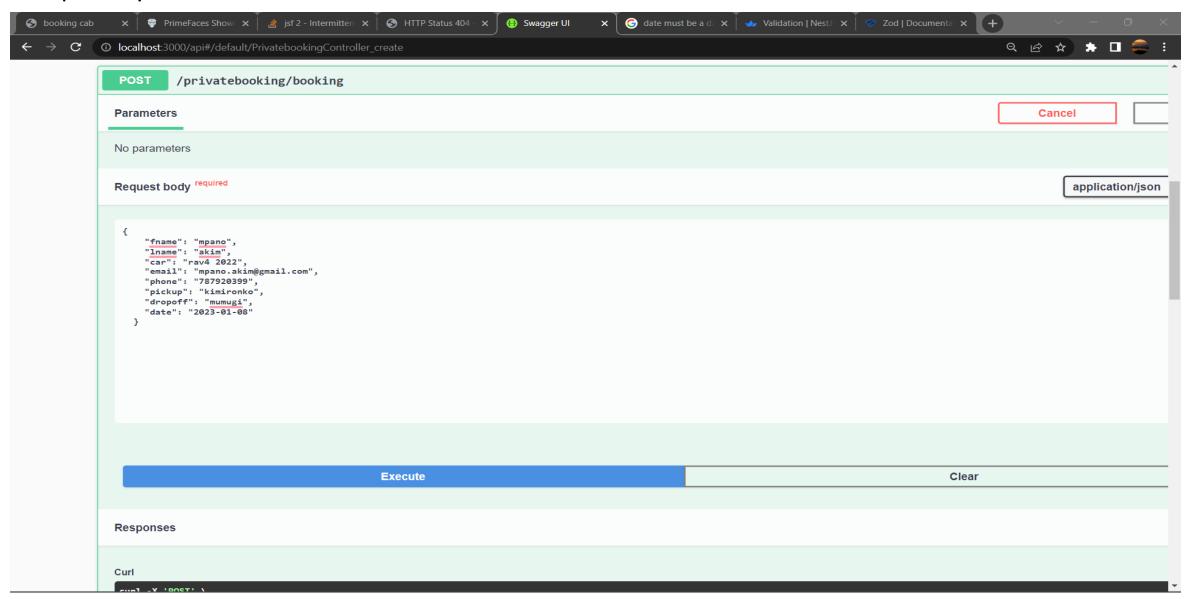
This is the structure of mycab backend project in nestjs and an example of one of my controller class privatebooking with two decorators **Get and Post**



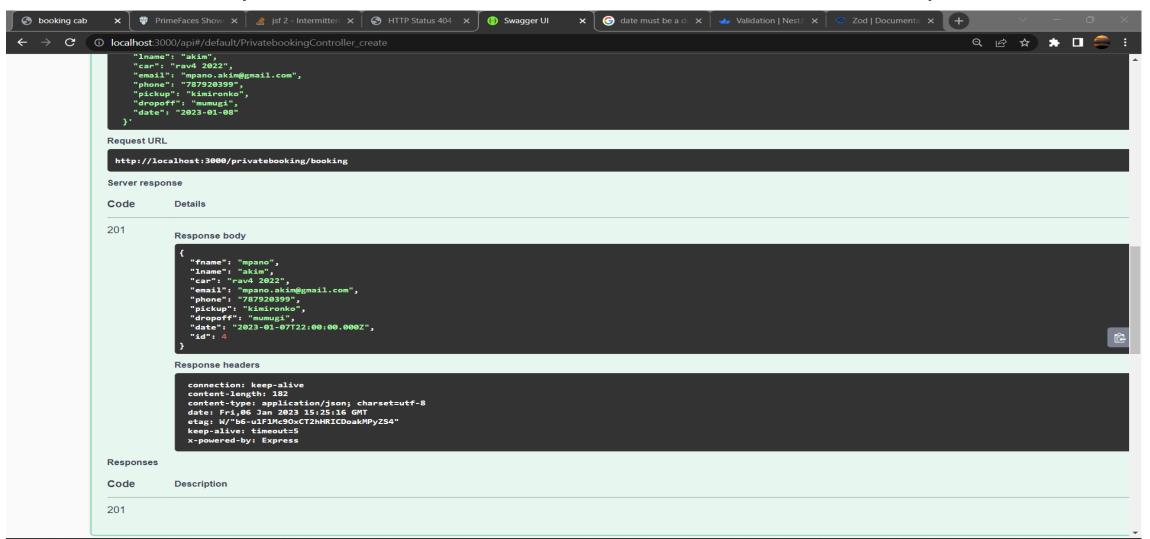
This is view all in table private booking using swagger UI which is an apiclient like postman



You can also save booking into database (am using postgres) to entering data which we specify in dto class is you enter other one which we don't specify those one will be use less because it wii not save it into database



If your data satisfy our validation you will see 201 response and return the user you just save in database other wise you will see 404 and 401 for bad request



Using typeORM it create for you repository class and what you have to do is creating service class to access your repository and controller and other class follow the structure of nestjs. this is my user controller class

```
m remove()
                                                                                            Current File
oking.controller.ts × 👙 .env.development × 🙀 user.controller.ts ×
                                                        🚜 booking.controller.ts × 🚜 privatebooking.dto.ts × 🚜 booking.enti
         @Controller( prefix: '/auth')
         export class UserController {
           constructor(private userser: UserService, private authservice: AuthService) {}
           @Get( path: '/currentuser')
           currentuser(@currentuser() user: User){
             if(!user){
                throw new BadRequestException( objectOrError: 'no user log in');
              return user;
           @Post( path: '/logout')
           logout(@Session() session: any) {
              session.userId = null;
           @Post( path: '/signup')
           async createuser(@Body() body: CreateUserDto, @Session() session: any) {
              const user = await this.authservice.signup(
                body.name,
                body.email,
                body.password,
              session.userId = user.id;
```

This is all the request you can perform(send)

