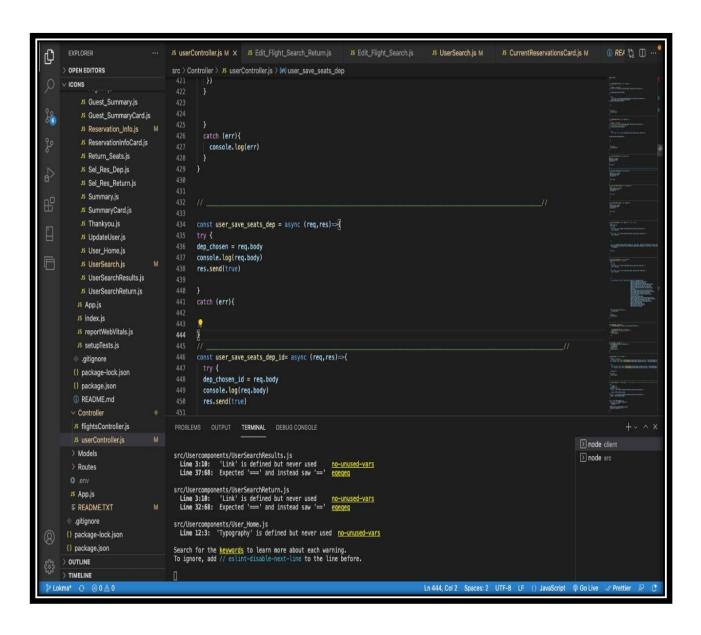
Sky Reserve

Motivation:

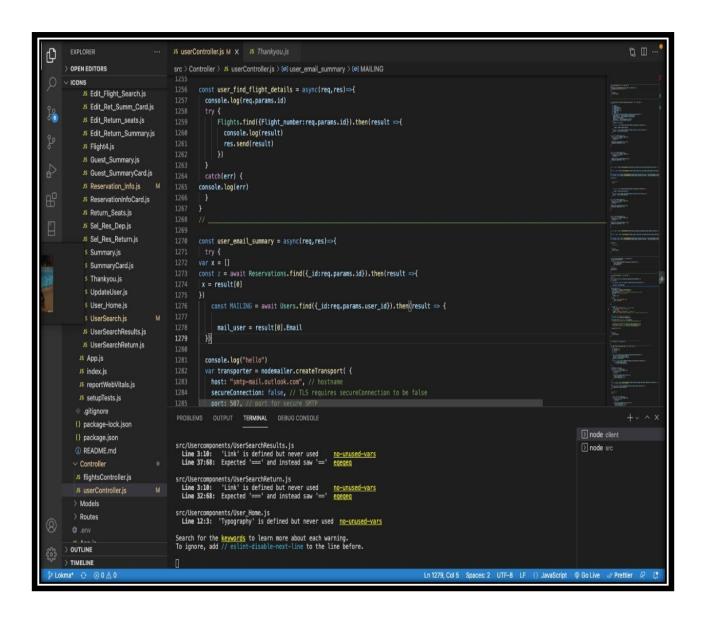
Airline reservation system is an online web-site that facilitates finding flight data from all airlines. It is an exceptionally advantageous system, especially when it comes to the restrictions of the pandemic. Travelling down to airports for reservations is currently challenging, whilst reserving tickets from your current seat at home doesn't squander your time and energy. One of the most substantial merits of the web-site, is its capability to find all the available seats to give you the extravagance of choosing what is most suitable for you. Finding convenient flight fares is indispensable, therefore the web-site is providing various different prices to allow you to choose what suits you the most.

Code style

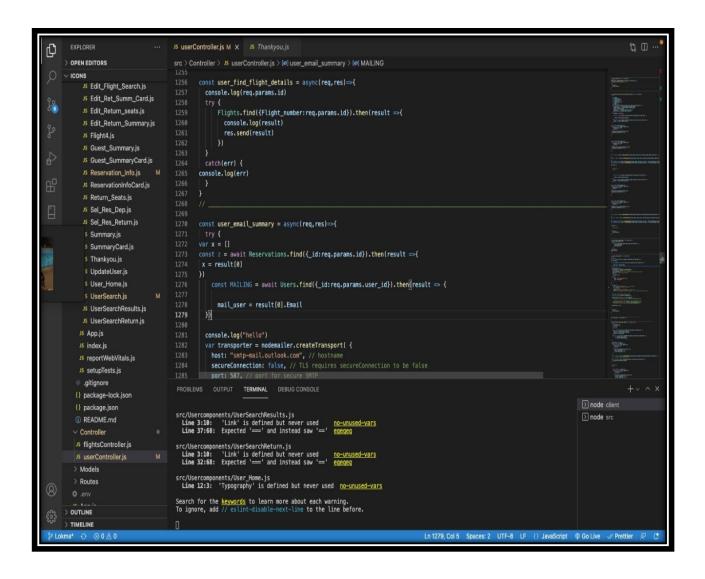
Regarding the use of local and global variables, global variables are not frequently present in the project, as they serve a specific role. For instance, this global variable which is used in saving the departure seats of the user, however if the user decided to cancel before completing reservation the seats are not saved in the database. They would only be saved in the global variable.



Regarding the naming convention of the local variables which are visible here in this example, this variable is called mail_user which indicates that it is the specified mail of the user we want to send to.



- The function's name is also specific indicating that this function is made for sending a summary to the user as mail.
- Regarding the error return values, some of the functions send true similar to 1 if they perform their aim correctly.



Tech/Frame-Work used

This website was fully developed using MERNstack, consisting of MongoDB, ExpressJS, React, and NodeJS.

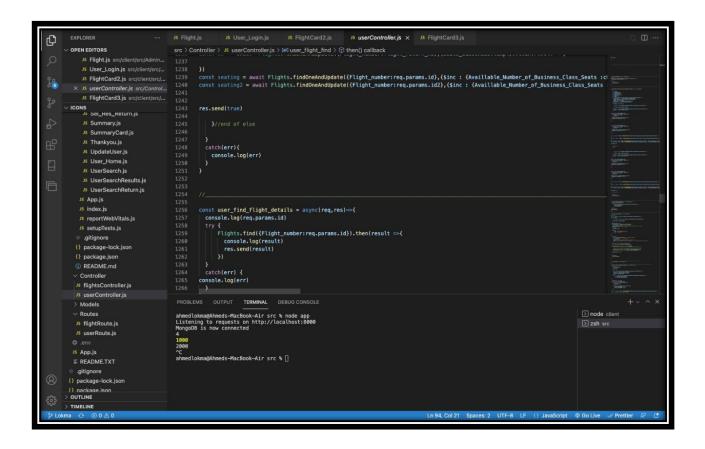
Installation

The reader should install MongoDB, Postman, and NodeJS along with Visual Studio libraries such as React and Express to properly work with this project. Don't forget to also install react UI material packages.

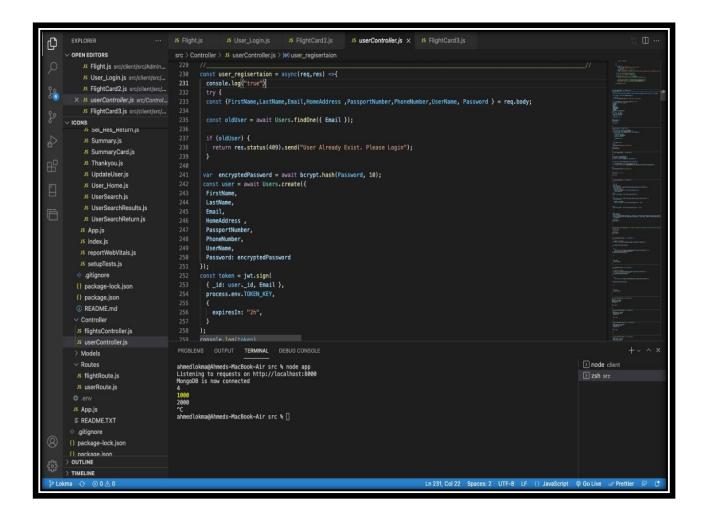
Api References	
Home page:	(http://localhost:3000/)
Edit information:	(http://localhost:3000/update_info)
Search flights:	http://localhost:3000/search)
Sign Up:	(http://localhost:3000/sign-up)
Login:	(http://localhost:3000/login)

Code examples:

1- Example of user login and how token is generated:



2- Example of user sign up and generating token:



3- Example of finding specific flight detail:

```
JS userController.js X JS FlightCard3.js
Ð
                                               src > Controller > JS userController.js > [@] user_login
       V OPEN EDITORS
            JS User_Login.js src/client/src/...
JS FlightCard2.js src/client/src/...
          × JS userController.js src/Control... 266
JS FlightCard3.js src/client/src/... 267
                                                 267 const user_login = async(req,res)⇒-{
                                                        try {
const { UserName, Password } = req.body;

✓ ICONS

JS Sei_Res_Return.js

                                                           const user = await Users.findOne({ UserName });
             JS Summary.js
                                                          if (user && (await bcrypt.compare(Password, user.Password))) {
             JS Thankyou.js
                                                           const token = jwt.sign(
                                                            { _id: user._id,UserName},
process.env.TOKEN_KEY,
             JS UpdateUser.js
             JS User_Home.js
             Js UserSearch.js
                                                                 expiresIn: "2h",
             JS UserSearchResults.js
             JS UserSearchReturn.js
                                                            res.send(user._id)
            JS index.js
            JS reportWebVitals.js
                                                          res.status(400).send("Invalid Credentials");
           JS setupTests.js
           gitignore .
           () package-lock.json
                                                          console.log(err);
          {} package.json

    README.md

          ∨ Controller
                                                 291 const user_change_password = async(req,res)=>{
          JS flightsController.js
           JS userController.is
                                                PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
          > Models
                                               ahmedlokma@Ahmeds-MacBook-Air src % node app
Listening to requests on http://localhost:8000
MongoOB is now connected
4
1000
^C
          ∨ Routes
          JS flightRoute.js
          JS userRoute.is
                                                 ahmedlokma@Ahmeds-MacBook-Air src % []

    ■ README.TXT

         gitignore
       {} package-lock.json
       O package ison
       > TIMELINE
  P Lokma ↔ ⊗0 🛆 0
                                                                                                                                             Ln 288, Col 2 Spaces: 2 UTF-8 LF () JavaScript @ Go Live V Prettier 👨
```

Tests

> There's no test provided

How to use?

First of all download the project then run backend terminal on port 8000(cd src => node app) and front end terminal on port 3000(cd src => cd client => npm run start)

- you will be directed to homepage
- click on the button search to be redirected to search
- you can choose departure and return flight, but you must be existing user to choose seats
- all the process is sequential

Features:

There are numerous facilities and features that the user benefits from while using the website, such as having the seats visible to their eyes. The user is able to select the cabin. All of the requirements and necessities that the user would need to acquire information about are present on the web-site.

Contribute

> Any contributions in the UI will be very useful and helpful

Credits:

- Professor Mervat
- > Eng. Nada Sharawy
- > Eng. Nada Hesham
- > Eng. Ahmed Helmy