Full Stack Development with MERN Frontend Development Report

Date	
	20-07-2024
Team ID	
	SWTID1720166168
Project Name	Journify
Maximum Marks	

Project Title: Journify
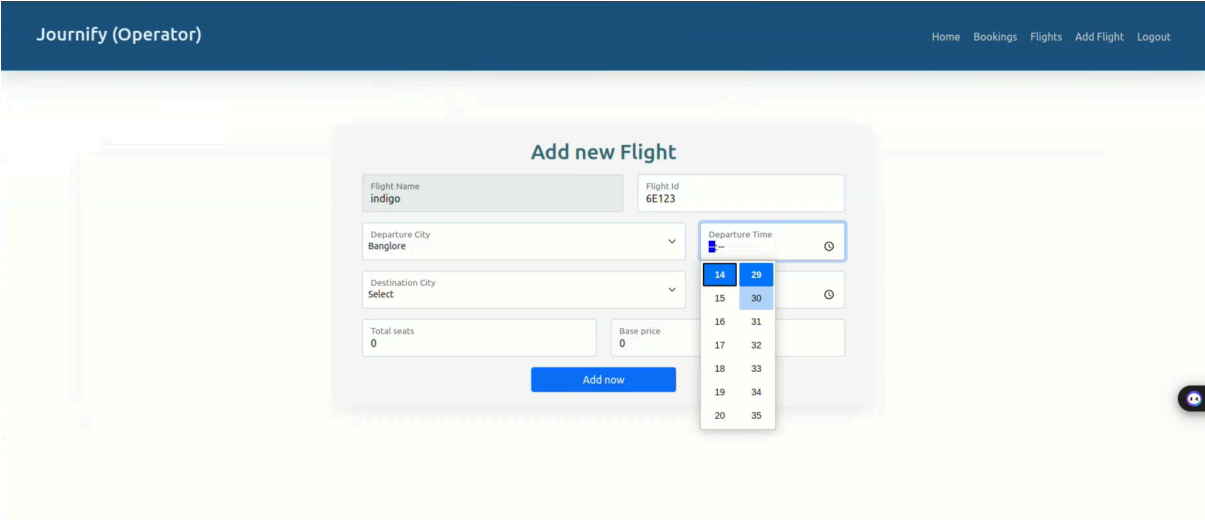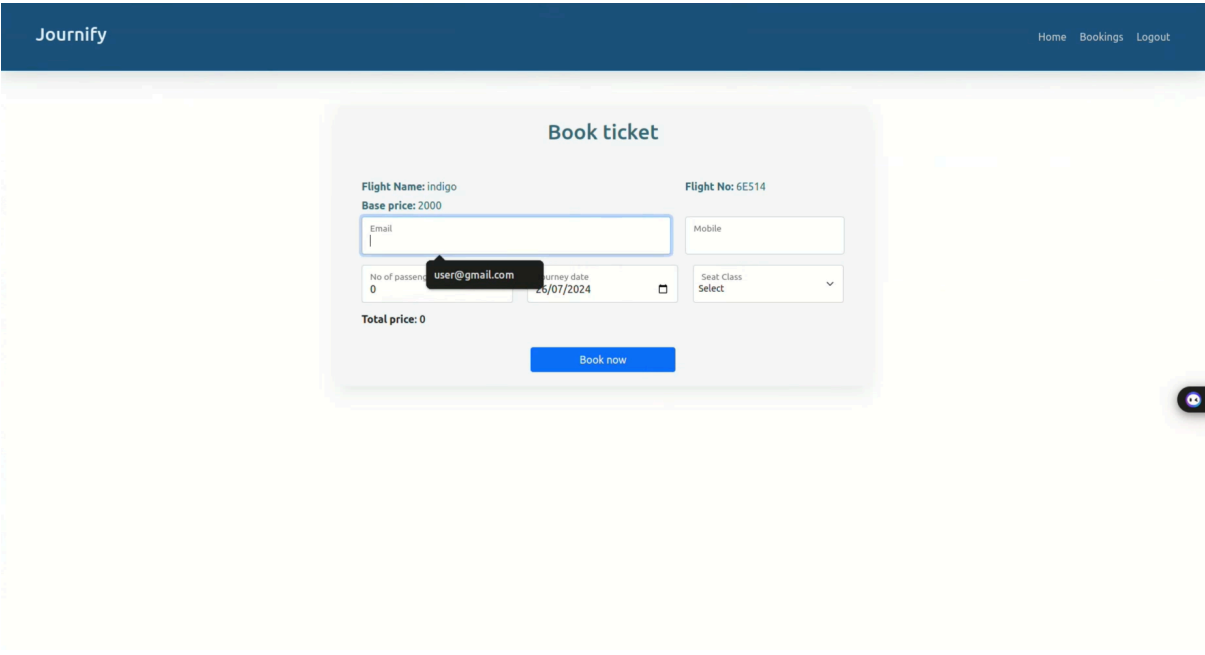
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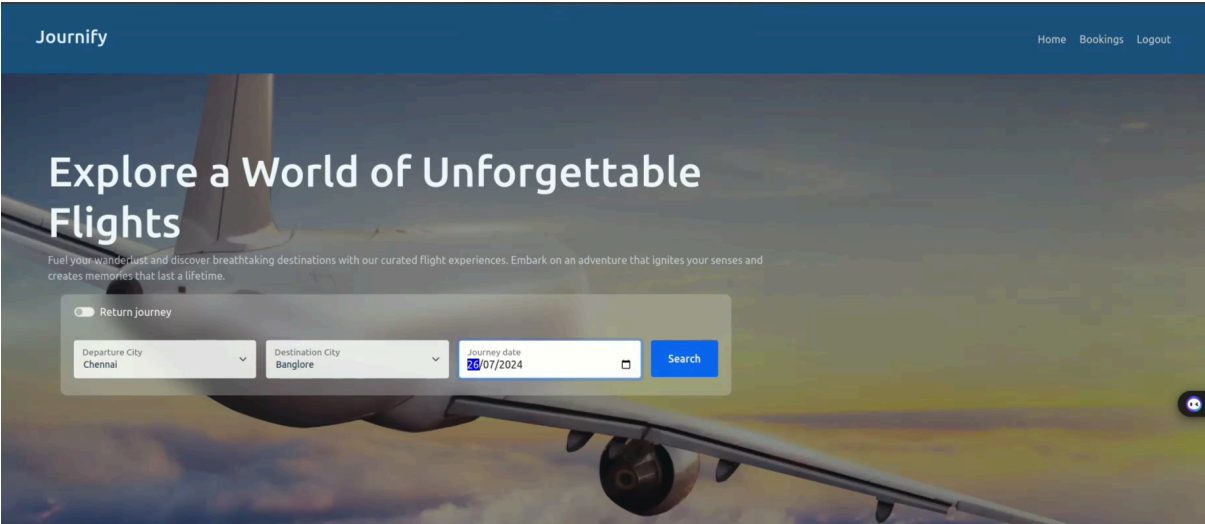Prepared by: SWTID1720166168

Objective

The objective of this report is to document the frontend development progress and key aspects of the user interface implementation for the Journify-Flight Booking app project.

Technologies Used

- **Frontend Framework:** React.js
- **State Management:** Context API
- **API Libraries:** Axios

Project Structure

Explore a World of Unforgettable Flights

Fuel your wanderlust and discover breathtaking destinations with our curated flight experiences. Embark on an adventure that ignites your senses and creates memories that last a lifetime.

Return journey

Departure City	Destination City	Journey date	
Chennai	Banglore	26/07/2024	Search

Book ticket

Flight Name: indigo   **Flight No:** 6E514

Base price: 2000

Email

user@gmail.com

No of passeng	Journey date	Seat Class
0	26/07/2024	Select

Total price: 0

Book now

Add new Flight

Flight Name	Flight Id
indigo	6E123

Departure City	Departure Time
Banglore	--:--

14	29
15	30
16	31
17	32
18	33
19	34
20	35

Destination City
Select

Total seats	Base price
0	0

Add now

Key Components

1. **App.js**
   - o Responsible for routing and main application layout.

```
7    import Admin from './pages/Admin';
8    import AllUsers from './pages/AllUsers';
9    import AllBookings from './pages/AllBookings';
10   import AllFlights from './pages/AllFlights';
11   import NewFlight from './pages/NewFlight';
12   import {Routes, Route} from 'react-router-dom';
13   import LoginProtector from './RouteProtectors/LoginProtector';
14   import AuthProtector from './RouteProtectors/AuthProtector';
15   import BookFlight from './pages/BookFlight';
16   import EditFlight from './pages/EditFlight';
17   import FlightAdmin from './pages/FlightAdmin';
18   import FlightBookings from './pages/FlightBookings.jsx';
19   import Flights from './pages/Flights.jsx';
20

     Codiumate: Options | Test this function
21 ∨ function App() {
22 ∨   return (
23 ∨     <div className="App">
24         <Navbar />
25
26 ∨       <Routes>
27         <Route exact path = ''element={<LandingPage />} />
28         <Route path='/auth' element={<LoginProtector> <Authenticate /> </LoginProtector>} />
29         <Route path='/book-Flight/:id' element={<AuthProtector> <BookFlight /> </AuthProtector>} />
30         <Route path='/bookings' element={<AuthProtector> <Bookings /> </AuthProtector>} />
31
32         <Route path='/admin' element={<AuthProtector><Admin /> </AuthProtector>} />
33         <Route path='/all-users' element={<AuthProtector><AllUsers /> </AuthProtector>} />
34         <Route path='/all-bookings' element={<AuthProtector><AllBookings /> </AuthProtector>} />
35         <Route path='/all-flights' element={<AuthProtector><AllFlights /> </AuthProtector>} />
36
37         <Route path='/flight-admin' element={<AuthProtector><FlightAdmin /> </AuthProtector>} />
38         <Route path='/flight-bookings' element={<AuthProtector><FlightBookings /> </AuthProtector>} />
```
   - o

2. **/components**
   - o Contains reusable UI components used across the application.
3. **/pages**
   - o Includes different pages for Web App.

```
∨ pages                          83
    Admin.jsx                    84
                                 85
    AllBookings.jsx              86
    AllFlights.jsx               87
                                 88
    AllUsers.jsx                 89
                                 90
    BookFlight.jsx               91
    Bookings.jsx                 92
```
   - o

Routing

Routing is managed using React Router. Here are the main routes:

- **/home** - Landing page of the application.
- **/dashboard** - Dashboard displaying user data and statistics.
- **/profile** - User profile management.

Integration with Backend

The frontend communicates with the backend APIs currently on localhost. in order for it to work we have enabled "cors", though it does act as a vulnerability but if we have our backend hosted on a platform it will be rectified as we remove cors then after.

Key endpoints include:

- **GET /api/data** - Retrieves data for display.
- **POST /api/user/login** - Handles user authentication.

User Interface (UI) Design

- The UI design follows a blue, white and greyish colour scheme.The frontend incorporates the images of flight and the blue colour pallet describes sky; which goes inline with the application's motive to have a platform for booking flights
- Implemented using ReactJS.