

# Tutorial + Task Distribution + File Structure

## TUTORIAL

### Running the program

Ensure that both frontend(Reactjs) and backend(Flask) running.

#### Frontend

### Prerequisites

Before you begin, make sure you have the following installed:

- [Node.js](#) (version 18 or higher)
- [npm](#) (comes with Node.js)

### Installation to work with (Front end)

1. Clone the repository:
2. `cd your-repo-name/frontend`
3. `npm install`
4. `npm run dev`

#### Backend

### Installation to work with (back end)

To set up and run the Flask backend, follow these steps:

#### Navigate to the backend directory

```
cd ../backend
```

#### Create a virtual environment:

```
python3 -m venv venv
```

#### Activate the virtual environment

On Linux or macOS: `source venv/bin/activate` On Window: `venv\Scripts\activate`

#### Install Flask Dependencies

```
pip install -r requirements.txt
```

## Set Up the Flask Application

Set the Flask application environment variable to point to the main Flask file (app.py): **export FLASK\_APP=app.py**

## Run the Flask Server

flask run

## How to run Test

### We used react testing library

Make sure you are in the correct directory:

1. Assume you are in the project's root directory:

**cd src/frontend**

2. To run test cases:
  - a. Install dependencies: (this includes the necessary libraries to run the project as well as run the test cases)  
npm install
  - b. Run test cases:  
npm test

Successful run of all test cases should display as following in your terminal:

```
✓ src/__test__/TestBookingPayment.test.jsx (4)
✓ src/__test__/TestFlightBooking.test.jsx (4)
✓ src/__test__/TestNavBar.test.jsx (3)
✓ src/__test__/TestRegister.test.jsx (5)
✓ src/__test__/TestSignIn.test.jsx (4)

Test Files  5 passed (5)
Tests      20 passed (20)
Start at   19:57:08
Duration   1.57s (transform 338ms, setup 0ms, collect 2.52s, tests 878ms, environment 2.79s, prepare 417ms)
```

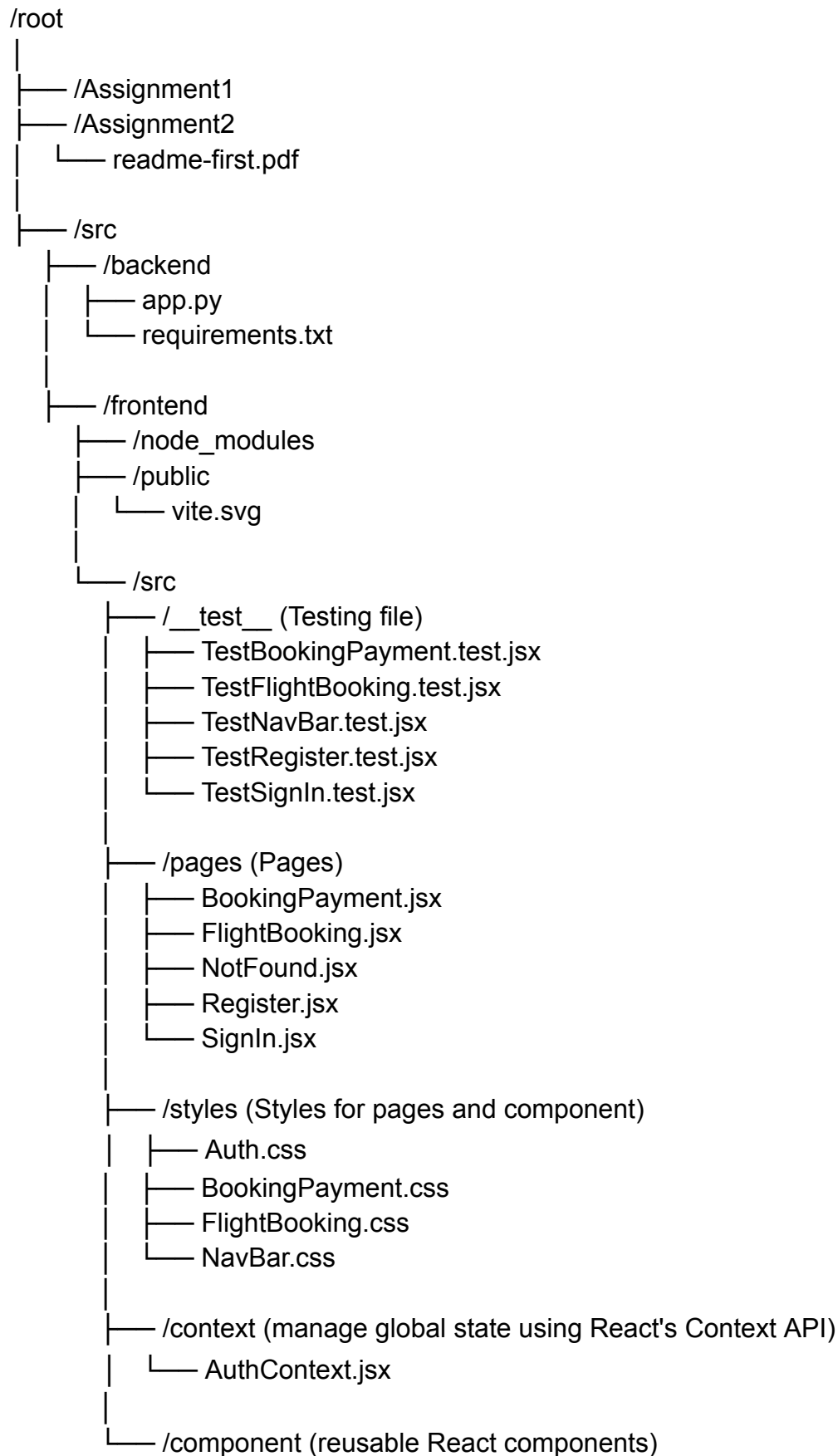
All test files with extension “.test.jsx” are under “src/\_\_test\_\_” directory, each file corresponds to a component

## TASK DISTRIBUTION

- Gia Nguyen (giahoangnguyen):
  - Implement booking payment feature for homepage (.jsx + css style)
  - Write unit test for booking payment feature
  - Implement file structure tree
  - Write readme-first template
- Vu Thanh Loc Mai (locmai27):
  - Implement flight search feature for home page
  - Set up test libraries for front end
  - Write unit test for homepage rendering and search feature
  - Set up backend template
  - Write readme-first template
- Nguyen Nguyen (Nguyen1611):
  - Set up signIn, Register page
  - Set up Navbar (in component folder) and routes to pages
  - Write unit test for Navbar, SignIn, Register
  - Set up CORS to connect backend and frontend
  - Write readme-first template

**BELOW IS FILE STRUCTURE WITH EXPLAINED FOLDER**

## FILE STRUCTURE



└─ Navbar.jsx