

Tutorial + Task Distribution + File Structure

TUTORIAL

Github:

<https://github.com/Nguyen1611/CISC327-QA-Project-Group-60-AA>

Please create a .env file in src/.env (same directory level as backend and frontend folder) add the DATABASE_URI

`DATABASE_URI=mongodb+srv://22rdkr:pn4ai8c8bVBTjPmj@cisc327-project.jm2de.mongodb.net/`

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:

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

```

✓ src/__test__/TestBookingPayment.test.jsx (3)
✓ src/__test__/TestBookingPaymentagainstBackend.test.jsx (2)
✓ 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  6 passed (6)
Tests      21 passed (21)
Start at   22:57:48
Duration   1.66s (transform 215ms, setup 0ms, collect 1.72s, tests 502ms, environment 1.96s, prepare 349ms)

PASS Waiting for file changes...
press h to show help, press q to quit

```

TASK DISTRIBUTION

- Gia Nguyen (giahoangnguyen):
 - Implement booking successfully and booking failed feature for navigation in booking payment (.jsx + css style)
 - Write unit test against backend database for booking payment feature
 - Implement backend: check flight availability, confirm booking and get booking history function
 - Create new booking records and put in the Booking History inside User Database every time the user books a flight successfully. Display successfully on page if the card is valid, otherwise display invalid
- Vu Thanh Loc Mai (locmai27):
 - Generate MongoDB cluster, set up database connection for application server
 - Implement fetching flights from database for FlightBooking
 - Implement booking buttons under flight cards, which link them to the BookingPayment page
- Nguyen Nguyen (Nguyen1611):
 - Init user database
 - Create backend database connection for Signin and Register
 - Add mock data to user database
 - Write readme-first template

BELOW IS FILE STRUCTURE WITH EXPLAINED FOLDER

FILE STRUCTURE

```
/root
├── /Assignment1
├── /Assignment2
├──   └── readme-first.pdf
├── /src
│   ├── /backend
│   │   ├── app.py, payment.py, auth.py, user_database_init.py
│   │   └── requirements.txt
│   ├── /frontend
│   │   ├── /node_modules
│   │   ├── /public
│   │   │   └── vite.svg
│   │   └── /src
│   │       ├── /__test__ (Testing file)
│   │       │   ├── TestBookingPayment.test.jsx
│   │       │   ├── TestFlightBooking.test.jsx
│   │       │   ├── TestNavBar.test.jsx
│   │       │   ├── TestRegister.test.jsx
│   │       │   └── TestSignIn.test.jsx
│   │       ├── /pages (Pages)
│   │       │   ├── BookingPayment.jsx, PaymentFailed.jsx, PaymentSuccessfully.jsx
│   │       │   ├── FlightBooking.jsx
│   │       │   ├── NotFound.jsx
│   │       │   ├── Register.jsx
│   │       │   └── SignIn.jsx
│   │       └── /styles (Styles for pages and component)
│   │           ├── Auth.css
│   │           ├── BookingPayment.css, PaymentFailed.css, PaymentSuccessfully.css
│   │           ├── FlightBooking.css
│   │           └── NavBar.css
```

