CS-C3170 - Web Software Development

Course Project – WeCare Application

Documentation

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Note: The version that has been deployed is not the same with the version in Github repository, since they are separated (one is for functionality development and test, the other one is for deploy) and use different SQL pool.

- CREATE TABLE statements needed to create the database used by the application

```
//table used to store user info
CREATE TABLE users (
  id SERIAL PRIMARY KEY,
  email VARCHAR(320) NOT NULL,
  password CHAR(60) NOT NULL
);
```

```
//table used to store report info
CREATE TABLE reports (
  id SERIAL PRIMARY KEY,
  date DATE,
  morning BOOLEAN,
  sleepduration decimal(2,1),
  sleepquality INT,
  mgenericmood INT,
  night BOOLEAN,
  sporttime decimal(2,1),
  studytime decimal(2,1),
  eatregnqua INT,
  ngenericmood INT,
  user_id INTEGER REFERENCES users(id)
);
```

- The address at which the application can currently be accessed

The application can currently be accessed by using the link below:

https://wsd-project-wecare.herokuapp.com/

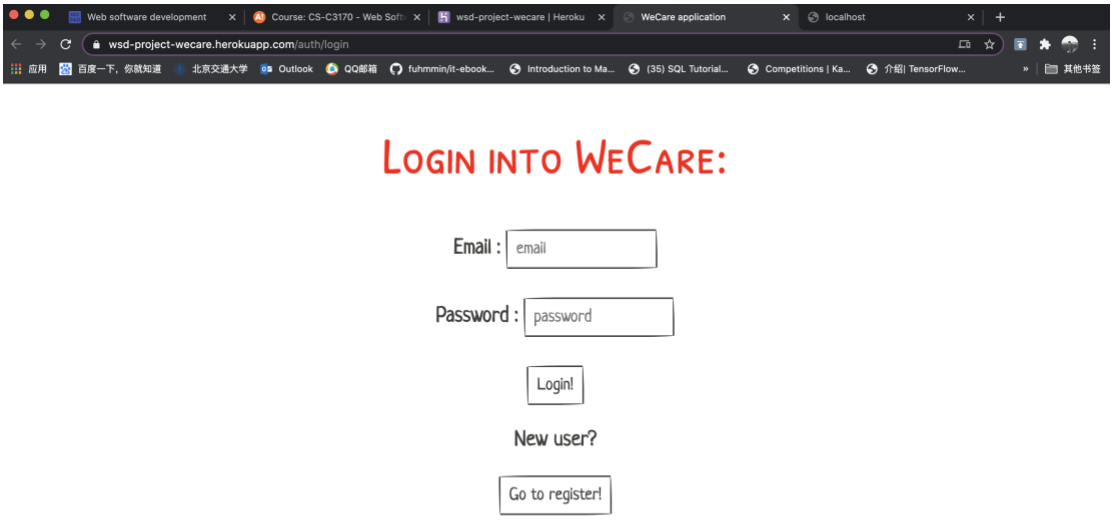
- The Github repository of the project:

The project can be accessed on Github by using the link below:

https://github.com/HaibiPeng/CS-C3170-WSD-CourseProject-WeCare-Application

- Guidelines for running the application

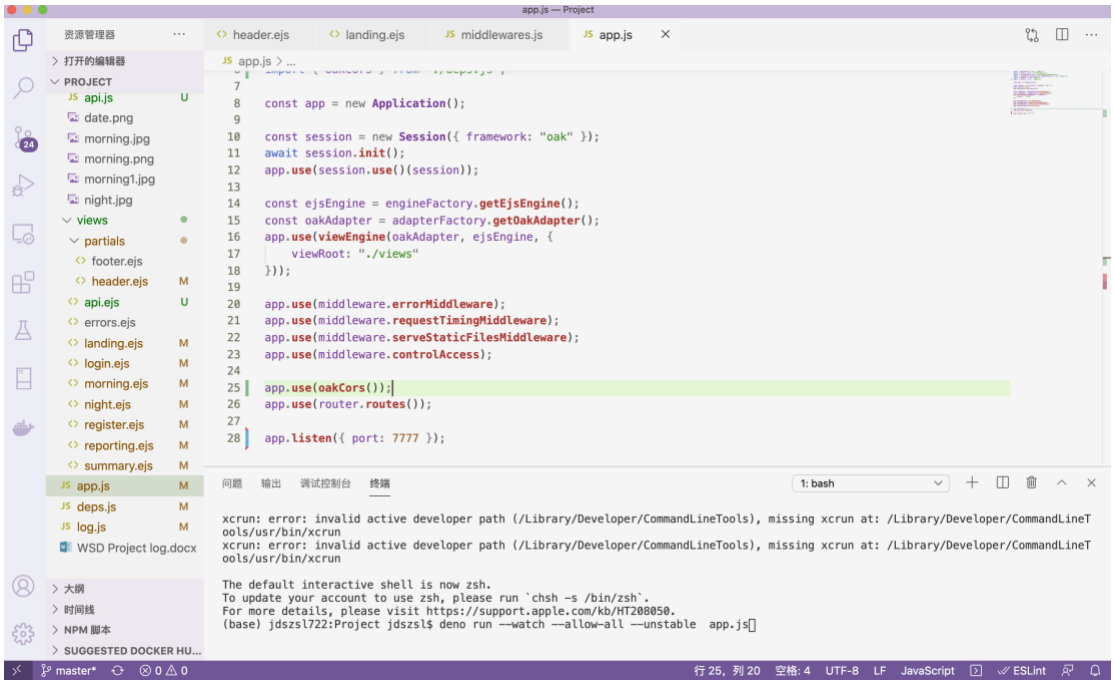
a. Running the application by link above: Using Chrome to open the link



b. Running the application using local host:

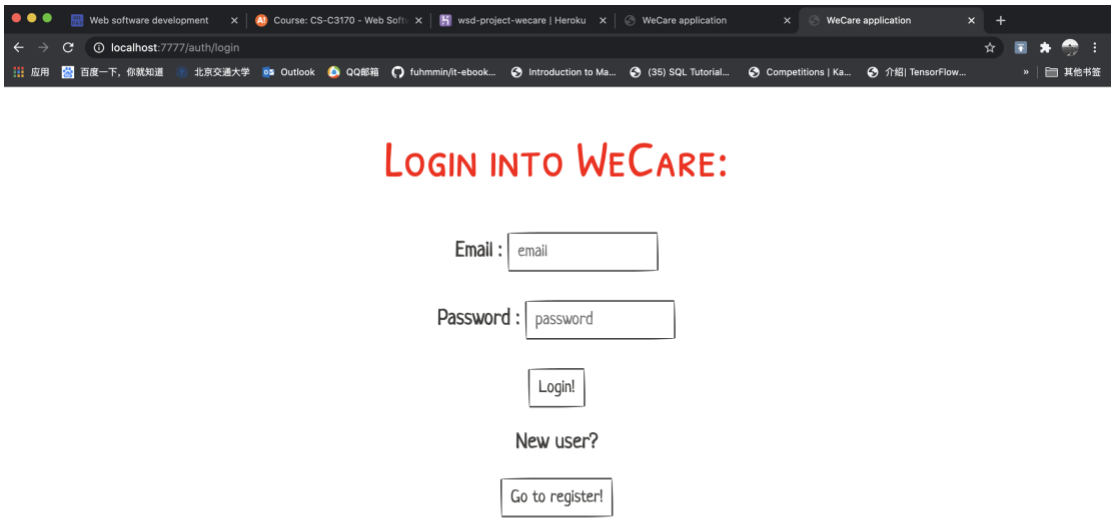
1. Using Visual Studio Code to open the application file folder
2. Change the directory of Terminal/CMD/CLI in Visual Studio Code to the directory where the ***app.js*** file lies
3. Start the application by entering the following command and strike enter:

```
deno run --watch --allow-all --unstable    app.js
```



4. Open the application by entering the link below in Chrome:

   http://localhost:7777/



 Guidelines for running tests

1. Using Visual Studio Code to open the application file folder
2. Change the directory of Terminal/CMD/CLI in Visual Studio Code to the directory where you want to run tests
3. Run tests by entering the following command and strike enter:

```
deno test --allow-all --coverage --unstable xxx_test.js
```

where xxx_test.js is the test file in the folder

- The functionality for handling duplicate reports

Since morning and night reporting data of one day are in the same line, so there are 3 cases regarding whether the data have been reported.

In addition to the needed information columns, this application adds two more columns, *morning/night (Boolean values, true/false)****, to record whether the morning and night data have been reported as the creating table statements above.***

When a new reporting is to be stored in the database, we have:

```
//To check whether the morning and night data have been reported by using columns date and morning/night
const morninginfo = await executeCachedQuery("SELECT COUNT(*) FROM reports WHERE date=$1 and morning=true and user_id=$2;", data.date, userID);
    const nightinfo = await executeCachedQuery("SELECT COUNT(*) FROM reports WHERE date=$1 and night=true and user_id=$2;", data.date, userID);
if (morning data reported) {
      update the morning data using 'UPDATE' in SQL, where morning value does not need change since we already set the morning value as true
    } else if (night data reported && morning data not reported) {
      update the morning data using 'UPDATE' in SQL, where morning value need to be set as true since we do not have the morning data before
    } else {
      insert the morning data using 'INSERT' in SQL, where all the morning reporting values are need
    }
```

And it is the same logic with the night data.