# **Documentation about the Task Given**

## **Backend API Documentation**

### **Introduction:**

This documentation provides details about the backend API for managing and retrieving opening hour information. The backend API is build using Node.js, Express and MongoDB.

### **Endpoints:**

1. Register a New User

* URL : ‘/register’
* Method : ‘POST’
* Request Body :
* ‘username’ : User’s username
* ‘password’ : User’s password

1. Login

* URL : ‘/login’
* Method : ‘POST’
* Request Body :
* ‘username’ : User’s username
* ‘password’ : User’s password
* Response : JWT token upon successful login

1. Add new opening hours

* URL : ‘/opening-hours’
* Method : ‘POST’
* Request Headers: ‘Authorization: <JWT Token>’
* Request Body :
* ‘dayOfWeek’ : Day of the week (0 for Sunday, 1 for Monday, ..., 6 for Saturday)
* ‘openTime’ : Opening Time
* ‘closeTime’ : Closing Time
* Response : JSON openingHour if that new opening hour is created.

1. Updating opening hours

* URL : ‘/opening-hours/:id’ where id is the object id of the json to be updated in the MongoDB
* Method : ‘PUT’
* Request Headers: ‘Authorization: <JWT Token>’
* Request Body :
* ‘dayOfWeek’ : Day of the week (0 for Sunday, 1 for Monday, ..., 6 for Saturday)
* ‘openTime’ : Opening Time
* ‘closeTime’ : Closing Time
* Response : JSON updatedOpeningHour if the opening hour was updated.

1. Deleting opening hours

* URL : ‘/opening-hours/:id’ where id is the object id of the json to be deleted in the MongoDB
* Method : ‘DELETE’
* Request Headers : ‘Authorization: <JWT Token>’
* Request Body : null
* Response : Success message if deletion successful.

1. Get opening hours

* URL : ‘/opening-hours/current-week’
* Method : ‘GET’
* Response: Array of opening hours json for the current week

### **Running the Backend API:**

1. Navigate to the Backend Directory: In the api I have created, directory name is opening-hours-api

cd opening-hours-api

1. Install dependencies:

npm install

1. Setup environment varaibles such as port, mongodb uri and secret key for JWT.
2. Start the backend server:

npm run dev

The backend server will start running on the specified port otherwise the on port 8080.

## **Testing the Backend API**

1. Navigate to the Backend Directory: In the api I have created, directory name is opening-hours-api

cd opening-hours-api

1. Then run the command:

npx jest

This will run the test that I have written in the api.test.js file inside tests folder. The test was written using jest framework and supertest library.

## **Frontend App Documentation**

### **Introduction:**

This document provides details about the frontend application for managing and viewing opening hours. The frontend application is built using React.

### **Components:**

1. OpeningHoursList : Component for displaying the list of opening hours for the current week.
2. OpeningHoursForm : Component for adding new opening hours.
3. Login : Component for logging in.
4. Register : Component for registering
5. Logout : Component for logging out
6. Navigation : Component for navigation between different components.

### **Running The FrontEnd App:**

1. Navigate to the frontend Directory: The frontend that, I have created, directory name is opening-hours-frontend

cd opening-hours-frontend

1. Install dependencies:

npm install

1. Start the frontend server:

npm run dev

The frontend application will start running on port 5173 and open in your default browser.

This documentation provides instructions for running and testing the backend api and frontend application.