PROJECT DOCUMENTATION

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Introduction

Yoga web site where customers can register and get enrolled to the classes.

Prerequisites

Before getting started with the project, ensure that the following software is installed on your machine:

1. React JS
2. Node JS
3. MySQL
4. npm (Node package manager)

Installation

Clone the repository:

git clone https://github.com/RishiSr/Yoga_Web_App.git

For Frontend:

Go to the project directory

cd frontend

Install dependencies

npm install

Start the client side

npm run dev

For backend:

Go to the project directory

cd backend

Install dependencies

```
npm install
```

Start the server

```
npm run start
```

Configuration

Following enviroment variables are used:

For interacting with the DB through mysql driver with node js (inside the node js file):

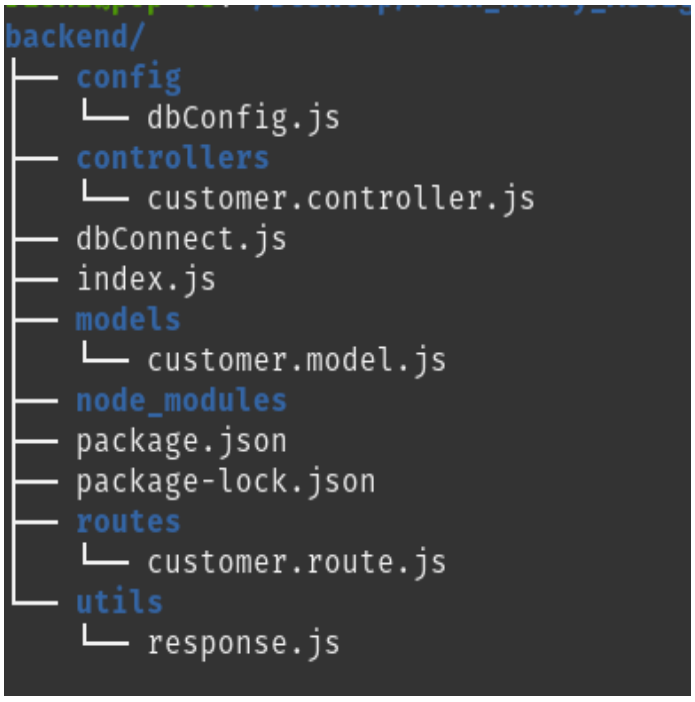
1. DB_HOST = storing the host
2. DB_USER = storing the username
3. DB_PASSWORD = storing the password
4. DB_NAME = storing the name of the database to be used

Project Structure

Parent folder contains two folders:

- frontend
- backend

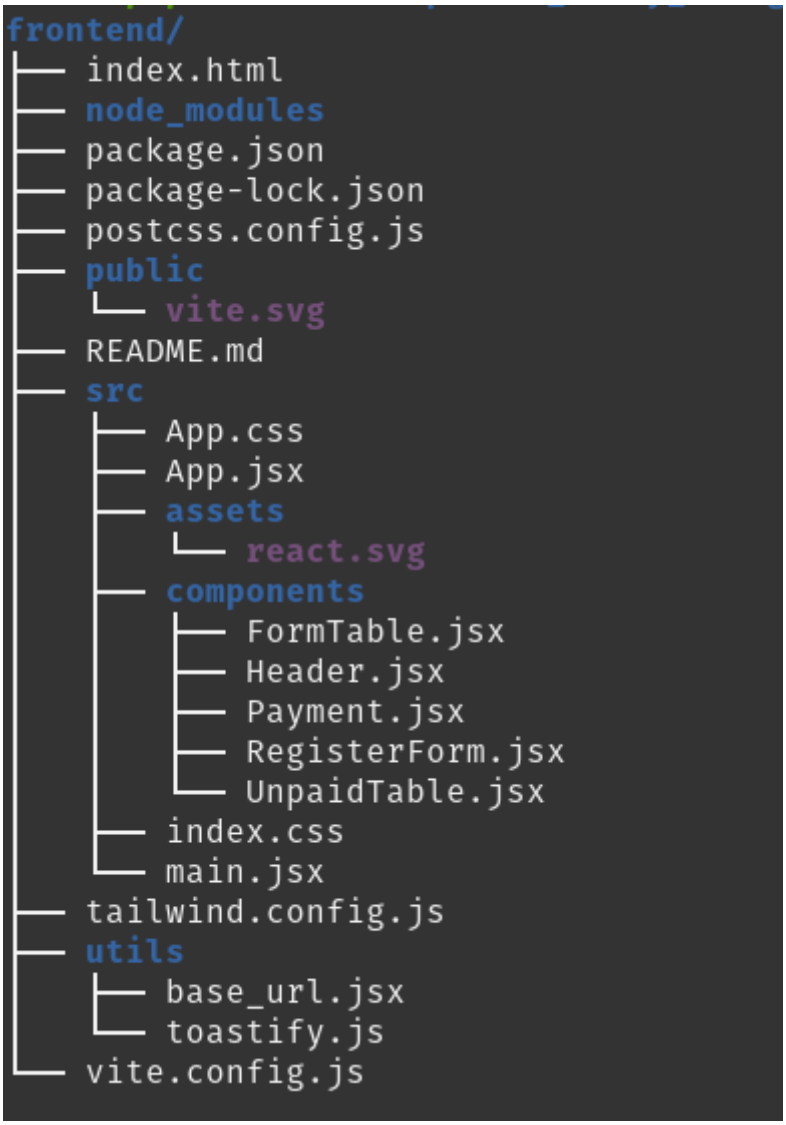
Structure of backend:



Description:

- dbConfig.js: Contains the database configuration file.
- Customer.model.js: contains the functions that directly interacts with the DB using sql query
- dbConnect.js: to connect the DB server with nodejs
- customer.controller.js: To store the functions that implement the logic for the api
- customer.route.js: To contains the routes for the customer api.
- response.js: utility file to send the response.

Structure of Frontend:



Description:

- Components folder: Contains the components required in the UI.
  - Header: header containing the name of the project.
  - Formtable.jsx: Contains the RegisterForm and UnpaidTable components and header to navigate.
  - Payment.jsx: It is used to render the payment dialog box.Contains the form for the debit card input and amount input and payment successfull box.

- Utils:
  - base_url.jsx: To store the base url of the server apis
  - toastify.js: Utility file to store vaious toast notifications.

Database

The database contain only one entity(table) currently named as customer.
The schema of the entity is:

```
mysql> desc customer;
+----------+--------------+------+-----+---------+----------------+
| Field    | Type         | Null | Key | Default | Extra          |
+----------+--------------+------+-----+---------+----------------+
| id       | int          | NO   | PRI | NULL    | auto_increment |
| name     | varchar(255) | NO   |     | NULL    |                |
| age      | int          | NO   |     | NULL    |                |
| gender   | varchar(255) | NO   |     | NULL    |                |
| status   | varchar(255) | YES  |     | reg     |                |
| batch    | varchar(255) | YES  |     | -       |                |
| reg_date | date         | NO   |     | NULL    |                |
+----------+--------------+------+-----+---------+----------------+
7 rows in set (0.00 sec)
```

Description:

- id: Contains the unique ID of each customer.
- name: Contains the name of the customer.
- age: Contains the age of the customer.
- gender: Contains the gender of the customer
- batch: Contain the batch in which the customer is enrolled.
- reg_date: Contains the registration date of the user.
- status: Contains two values:
  - reg: if the user is only registered
  - isPaid: if the user has done the payment

Assumptions

1. The enrollment of the customer requires the two steps
   1. Registration of the user
   2. Payment of the user
2. Registration involves entering the following data (each field has proper validation)
   1. Name of the user
   2. Age of the user
   3. Gender of the user
3. User can also pay fees later.

4. For fee payment , payment dialog box is displayed(using the mock payment function) or can cancel and pay later.
5. The user that are unpaid can pay later using the unpaid user table and clicking the pay button.
6. Payment dialog box contains three fields:
   1.The debit card info(Dummy input container)(Need to be filled with any value to proceed)
   2.The amount to be paid (Input field)(Value entered should be 500)
   3. The choice of batch during the payment.