

Hotel Database Website

Contributors

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Overview

Hotel Database Website simulates software in which a user can interact with data about a hotel chain. The site attempts to make adding new rows to and extracting useful data from the ER database easy for any user. Rather than the soul crushing interface of the command line, a user can log onto the site and easily click about until they find their desired operation.

The home page displays all of the functionality available. All users (customers, staff, and maintenance companies) can access the functionality. Future, more robust, versions may even contain a login feature and display the appropriate operations depending on the user's access level (Not planned).

How to Use

To start the website, clone the project using:

```
git clone https://github.com/DevelopmentByDavid/database-project.git
```

Then navigate to the root directory and run the following:

```
cd server && yarn install && cd ..
```

```
cd client && yarn install && cd ..
```

```
yarn install
```

```
yarn start
```

Finally goto your favorite web browser and visit the page:

<http://localhost:3000/>

Design

The front end of the website was created using React and Material UI. The home page displays all of the operations a user can perform. Clicking on an operation takes you to a page to enter data to either insert or query data. The pages for each operation have unique fields that correspond to the data required to complete the query or insert.

We use the module `node-postgres` to query our database. Queries are written as inline using the `query()` function. We pull user input from the web pages and pass them to the queries.

To accomplish validations, we use dropdown menus filled with data queried from the database and calendars to enter the date. Furthermore, we do not allow the user to input any invalid data through making the appropriate fields for numbers, dates, etc.

Assumptions

- We assume for the “Get hotel bookings for a week” we need to search for bookings one throughout the week from the given date. For example, if the given date is 2019-12-06 then we search between 12-06 and 12-13 inclusive.

Responsibilities

We divided the work evenly between ourselves. We did a lot of pair programming throughout the project.