Otso Weckström
0547090

Web Applications Course Project Documentation - Brainstorm

1. Introduction

Brainstorm is a pseudo-anonymous social media application, that allows users to post short text posts under their chosen username. The platforms intended usage is to share ideas and prompts that promote creativity for users to find inspiration for their next project.

The backend was established using javascript, express.js and a SQL-database.

The applications frontend was created with React and Redux.

Look of the application is a simplistic, easy to use UI accomplished in part by utilizing materialize. In the design stage of the application there were quite a few more components and functionalities that had to be scrapped due to time constraints. Including but not limited to logging in, personal user pages and a functional search bar to look up other users. Authenticating the user's credentials is now combined with creating a post.
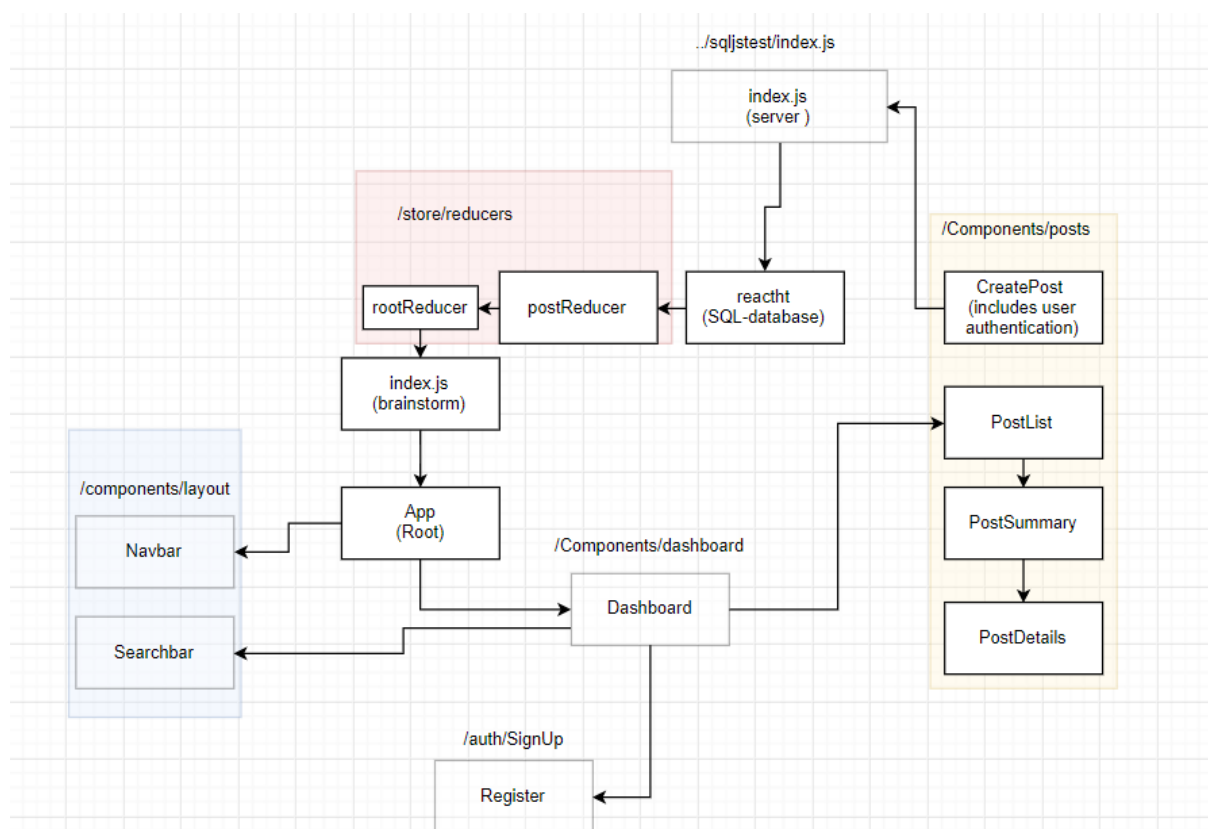
2. Architecture

Figure 1: Brainstorms architecture

The components shown in figure 1 are all the components used in the final build.

SQL-database was created and managed in MySQL Workbench.

3. Setup

The React app can be launched by running "npm start" in /huutis.

The server can be launched by running "npm run server" in /sqljstest.

A SQL-Database named "reactht" is required the SQL query for creating the database will be included in this documentation and in the projects github page.

5. SQL Create Statement

CREATE DATABASE `reactht` /*!40100 DEFAULT CHARACTER SET latin1 */;

CREATE TABLE `users` (

  `id_user` int(11) NOT NULL AUTO_INCREMENT,

  `username` varchar(45) NOT NULL,

  `password` varchar(45) NOT NULL,

  PRIMARY KEY (`id_user`),

  UNIQUE KEY `username_UNIQUE` (`username`),

  UNIQUE KEY `id_user_UNIQUE` (`id_user`)

```
) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=latin1;


CREATE TABLE `posts` (

  `id_posts` int(11) NOT NULL AUTO_INCREMENT,

  `username` varchar(45) DEFAULT NULL,

  `post_title` varchar(45) NOT NULL,

  `post_content` varchar(250) NOT NULL,

  PRIMARY KEY (`id_posts`),

  UNIQUE KEY `id_posts_UNIQUE` (`id_posts`)

) ENGINE=InnoDB AUTO_INCREMENT=1 DEFAULT CHARSET=latin1;
```