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CSCI 4208
Backend Design
Proposal 4 - Final Project

REST API:
Endpoints:
.../login - this is for the login of an existing account, authenticate the user if their username and password matches. (public)

.../register - this would be used to register a new user and stores them in the database. (public)

.../user/notes - this is the location for notes to be edited and seen, updates the database when any are changed. (protected)

.../user/newnote - this is for creating a brand-new note, as well as uploading it's data to the database. (protected)

Server Logic:
.../login - user authentication for current users logging in, view redirects to either .../register or .../user/notes

.../register - creates a new session for new users, view redirects to either .../login or .../user/notes

.../user/notes - updating model data based on edited notes, view redirects to either .../user/newnote or .../login

.../user/newnote - updating model data for created notes, view redirects to .../user/notes

Server Fetches:
.../login:
GET - authentication of whether or not a user exists.
POST - user either provided the correct credentials and logged in successfully or user got username, password, or both wrong.

PUT - if the user provided the correct credentials, bring them to the home page of the application. If the user did not provide the correct credentials, keep them at the login page.
DELETE - nothing

.../register:
GET - the username and password new users would like.
POST - users account has successfully been made.
PUT - redirect from register page to login page.
DELETE - nothing to delete.

.../user/notes:
GET - whether or not the user has previous notes created or not.
POST - previous notes.
PUT - new note if user wants to create a new one.
DELETE - delete from server if user chooses to delete.

.../user/newnote:
GET - from front end the ability to render a new sticky note.
POST - empty sticky note.
PUT - save changes made to sticky notes.
DELETE - delete from server.

Tooling and Libs:
Express - to set up the framework of the REST API and necessary for the app.
Passport - for the username and password to have the accounts for the app.
Bcrypt - to help hide passwords when logging in.