CSCI3020U - No Brand Team

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Topic

For our CSCI3020U final project we decided on creating health and fitness app. It would include simple data implementations, generic CRUD features such as creating and reading data values such as weight and heart rate history. We also wanted to include a Google Map integration that would allow the user to enter and save routes for planning fitness runs.

Design

For this project we decided on a two-server approach. The front-end is an Angular based client facing server and the back-end is a NodeJS Express based server.

Angular

There is nothing noteworthy about the implementation of Angular. It's version 11 Angular running with compatible typescript.

NodeJS Express

The back-end server is a NodeJS Express framework, running over a Sequelize ORM, wrapping a PostgreSQL database.

Requirement Fulfillment

Requirement	Fulfillment
SVG	Multiple D3 graphs throughout bloodpressure.componets.ts, etc.
HTML	*.components.html
CSS and CSS Frameworks	Bulma is used throughout the Angular app
D3	Multiple D3 graphs throughout bloodpressure.componets.ts, etc.
JavaScript, jQuery	NodeJS server, *.components.ts
DHTML	Use of dynamic Bulma assets
AJAX, web services	Google Maps integration routes.components.html/ts
Node.js	NodeJS back-end server
Client-side framework	Angular 11
Database	Postgresql with Sequelize ORM
Sockets, multi-threading	Dropped

Independent Study

For our independent study we decided to explore and integrate JWT (JSON Web Tokens) into our application for server authentication and database querying. We also decided to deploy our NodeJS server on a cloud-based service, in this case we decided on Heroku due to it's easy-to-use nature and it's free option.

https://docs.google.com/presentation/d/1-DSLPeA1waVdRY2TWw0uvydcXP6MTRHXIz-HWTuqc4/edit?usp=sharing

Installation

Αı	ηg	u	la	r

	npm i
	npm install @angular/cli
_	npm install –save-dev @angular-devkit/build-angular
Then run l	ocal with
-	ng serve –open
navigate t	ar app will build and start up automatically in your browser, if it doesn't autoload you can o it at localhost:4200 e initial build time can take a couple of minutes, please be patient
71059.her	Express te, the NodeJS instance is available on a cloud service at http://enigmatic-cove-rokuapp.com (Credentials, git history, and access available upon request) The Heroku service is free and is not active 24/7. After your first initial request, give the service to boot up.
	nstallation, again the latest Node version is adequate. Navigate from the root directory to ever/then install with npm and npx
-	npm i
	nnm install nny

At this step, please install PostgreSQL locally and create a DB with match credentials to these

"username": "noBrandAdmin",

```
"password": "password",

"database": "noBrandDB",

"host": "127.0.0.1",

"dialect": "postgres"

Then we run our migrations with

npx sequelize-cli db:migrate

and run

npm run start
```

The server will be accessible on localhost:3000

Citations

https://bezkoder.com/angular-11-jwt-auth/