Final Project Documentation

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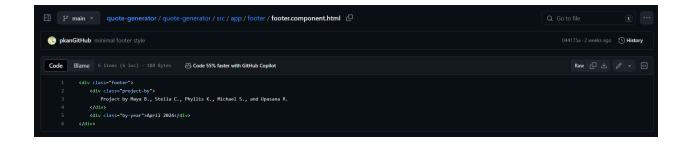
To run the project use "npm run dev".

Angular

In order to meet the Angular requirement, we created a header component, footer component, and various other body components like about, add-quote, gen-quote, home, quote-list, and profile card. We used the header to route between all of the different pages as shown here:

We used the body components to send information to each other shown here in the onSubmit function:

In our footer we put the names of each of the group members:



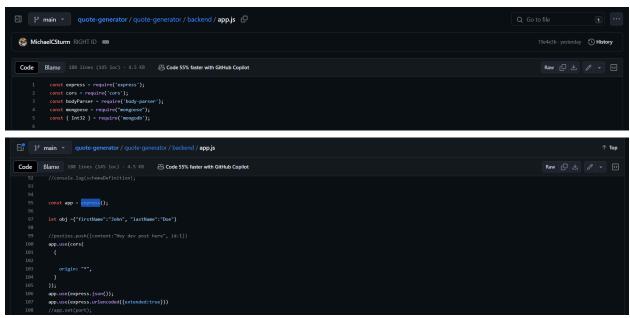
NodeJS

In order to meet the requirements for NodeJS, we built our backend in NodeJS and used HTTP for the connection to the data between our frontend and backend.

```
p main quote-generator / quote-generator / backend / app.js
Code Blame 188 lines (145 loc) - 4.5 KB  Code 55% faster with GitHub Copilot
         app.post('/data2', (req, res) =>{
  console.log("ABOUT TO POST DATA" + req.body)
         app.use('/request-type', (req, res, next) -> {
   console.log('Request type: ', req.method);
   next();
           app.get('/', (req, res) => {
  res.send('Successful response.');
P main quote-generator / quote-generator / src / app / quote-getter.service.ts
 pkanGitHub remove unused imports
  Code Blame 39 lines (31 loc) - 993 Bytes  Code 55% faster with GitHub Copilot
              import { Injectable,inject } from '@angular/core';
              import { HttpClient , HttpHeaders} from '@angular/common/http';
              const BASE_URL = 'http://localhost:3000/data'
              const SEND_URL = 'http://localhost:3000/data2'
              @Injectable({
                providedIn: 'root'
      10 ∨ export class QuoteGetterServicee {
               constructor() { }
```

Express.js

For the Express.js requirement, we used express to create a restful API between our backend and service.ts:



All of our communication and data transfer was done in our http from node as shown in the requirements for NodeJS above.

MongoDB

```
45 v async function postdata(newData){
          posties[0].push(newData)
         const newestData = new Quotes({
50
         id: posties[0].length+1.
         quote: newData.quote,
          author: newData.author.
53
         topic: newData.topic})
55
       ////console.log(JSON.stringify(newestData))
56
        //newestData.id = posties.length+1
        await client.connect(() => {
58
          const database = client.db("Quote_Generator");
59
          const collection = database.collection("Quotes");
61
          db.collection.insertOne(newestData);
            console.log("WE IN THE CLINET BBY")
         disquotes = await collection.insertOne(newestData);
66
         newestData.save().then(savedData => {
           console.log('Data saved successfully:', savedData)})
69
        catch(e){
          console.log(e)
```

Using mongo we allowed all IP's to be able to get and post to the db. We set it up so the service automatically calls the database to put into an array. We use this array to avoid the Onlnit async waiting for db error. We also use this array to find the number of quotes in quotes to assign an id that counts up. We also have a quotes Schema to format the data to a pushable state.

Routing.ts

To meet the Routing requirement, we created the navbar using RouterModule, a built-in Angular module for handling routing. The RouterModule is imported into the main application module. Each route in the RouterModule consists of a path and a component field for all components we created, such as home, gen_quote, add_quote, quote_list, and about.

```
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { HomeComponent } from './home/home.component';
import { AddQuoteComponent } from './add-quote/add-quote.component';
import { GenQuoteComponent } from './gen-quote/gen-quote.component';
import { QuoteListComponent } from './quote-list/quote-list.component';
import { AboutComponent } from './about/about.component';
const routes: Routes = [
    {path: '', component: HomeComponent, pathMatch: 'full'},
    {path: 'add-quote', component: AddQuoteComponent},
    {path: 'generate-quote', component: GenQuoteComponent},
    {path: 'quote-list', component: QuoteListComponent},
    {path: 'about', component: AboutComponent},
1;
@NgModule({
    imports: [RouterModule.forRoot(routes)],
    exports: [RouterModule]
})
export class AppRoutingModule { }
```

To link up the routes in the header component, we used HTML list elements such as <nav>, , for each route link. And for each element, it would contain an Angular router link directive, pointing to the corresponding path defined in the RouterModule.

Service.js

It's an injectable that has loadPosts which posts the quote to the DB using mongo and getPosts which gets the data. This injectable is injected into addQuoteComponent, QuoteListComponent and GenQuoteComponent. This helps the project be very scalable.

Component.css

Our application contains a proper layout using css padding and margins. Our application is visually symmetric using css with the components.

App.component.css:

<u>quote-list.component.css:</u>

-generator > src > app > quote-list > # quote-list.component.css

And the following examples:

Subjects

We used subjects and subscriptions to handle the data that will be displayed from our database.

```
18 v loadPosts(CurrPost:JSON) {
19
20
21
22
          console.log(JSON.stringify(CurrPost) + "AYO THIS IS IN QUOTE GETTER SERVICE")
23
24
          const headers = new HttpHeaders()
25
                .set('Authorization', 'my-auth-token')
                .set('Content-Type', 'application/json');
26
27
          //console.log(body);
          this.http.post(SEND_URL, CurrPost, { headers:headers })
28
29
         .subscribe(data => {
          console.log(data)
30
31
        });
      }
32
33 }
34 .. ownest class Lagran (
```