HW - 3

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DATABASE SETUP

- Obtain the MySQL database from the official website and install it on the local machine. Establish a root user with CRUD permissions.
- Download and install MySQL Workbench for connecting to the MySQL database.
- Open MySQL Workbench, set the host as localhost, port as 3306, and input the root user credentials.
- Once connected, create a database and a "Surveys" table.
- SQL commands:
 - Create a database:

CREATE DATABASE testDatabase;

• Use the database:

USE testDatabase;

• Create the Surveys table:

CREATE TABLE surveytable(id INT NOT NULL AUTO_INCREMENT, firstname VARCHAR(255), lastname VARCHAR(255), streetaddress VARCHAR(255), city VARCHAR(255), state VARCHAR(255), zipcode VARCHAR(10), telephone VARCHAR(15), email VARCHAR(255), dateofsurvey VARCHAR(25), likedmost VARCHAR(255), interestedby VARCHAR(255), likelihood VARCHAR(255), comments VARCHAR(500), PRIMARY KEY(id));

• Utilize this database and table in the backend application with the root user credentials.

FRONT-END APPLICATION

- Develop the front-end application using Angular.
- Install Angular CLI with the command: **npm install -g @angular/cli**.
- Create a new Angular project: **ng new swe642-assign3-fronend**.
- Generate necessary components:
 - Main Component: ng generate component main-page
 - Survey Component: **ng generate component survey-page**
 - Survey List Component: ng generate component list-of-surveys

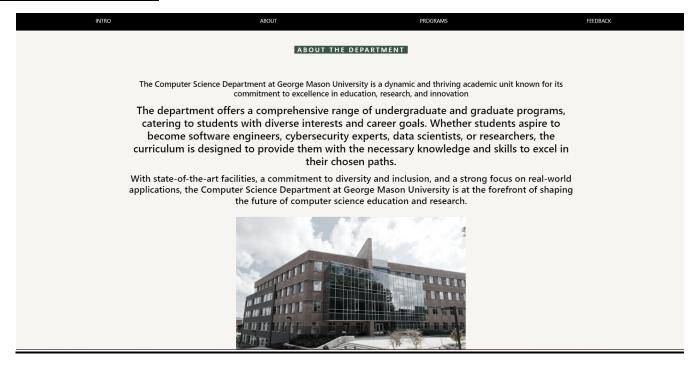
- Generate a service for making API calls: **ng generate service survey**.
- Write HTML and CSS code in corresponding components, and define API call methods in the apiservice.service.ts file.
- Run the application with the command: **ng serve**.

BACKEND APPLICATION

- Develop the backend application using Spring Boot.
- Add required dependencies and download the ZIP file from https://start.spring.io/.
- Open the application in Eclipse IDE and write the APIs.
- Create a repository and model class for database connection, defining the table schema for the survey form.
- Create a controller and implement APIs for creating, updating, deleting, and listing records.
- Run the application in Eclipse IDE. Store database credentials in the **application.properties** file, including the port number.

Screenshots

Application home screen



Starting the angular server

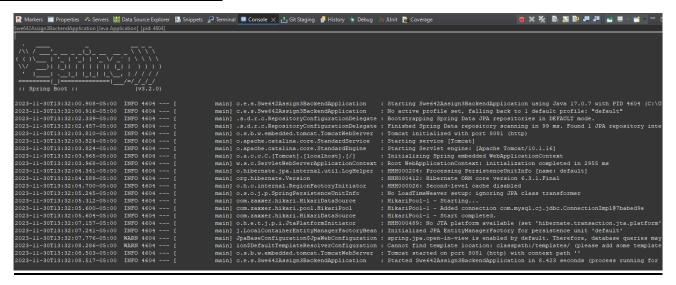
```
Initial Chunk Files | Names | Raw Size | vendor | 2.64 MB | polyfills.js | polyfills.js | polyfills | 333.19 kB | styles.css, styles.js | styles | 230.48 kB | main.js | main | 79.45 kB | runtime.js | runtime | 6.54 kB |

| Initial Total | 3.27 MB

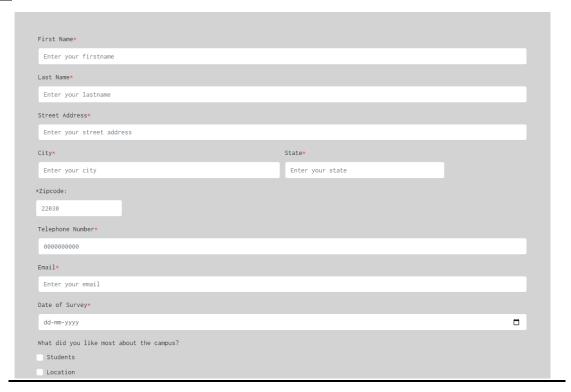
Build at: 2023-11-30T18:29:29.977Z - Hash: 0a8dd99791070e5a - Time: 6033ms

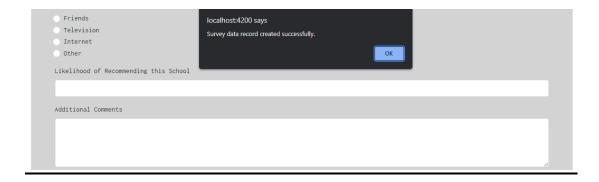
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
```

Starting the SpringBoot application



Survey Page





Surveys List



MySQL Workbench

