

Student Survey Application

We have developed an application leveraging Angular, Node.js, Spring Boot, and MySQL to implement comprehensive CRUD (Create, Read, Update, Delete) operations. The homepage features three primary navigation links: **Home**, **Student Survey Form**, and **List All Surveys**.

- By selecting the **Student Survey** link, users are redirected to a dedicated survey page where they can complete and submit the survey form.
- The **List All Surveys** link leads to a page displaying all submitted surveys. This page includes **Update** and **Delete** buttons for each record, allowing users to modify or remove specific entries as needed.

This streamlined interface ensures a user-friendly experience for managing survey data efficiently.

Technologies:

- Angular
- Node.js
- Spring Boot

Prerequisites:

- JDK (version 17 or higher)
- Angular CLI (version 15 or higher)
- Node.js (version 18 or higher)
- Spring Boot (3.0 or above)

IDE:

- Eclipse Ide (With STS installed)
- Visual Studio Code
- MySql server/ work bench

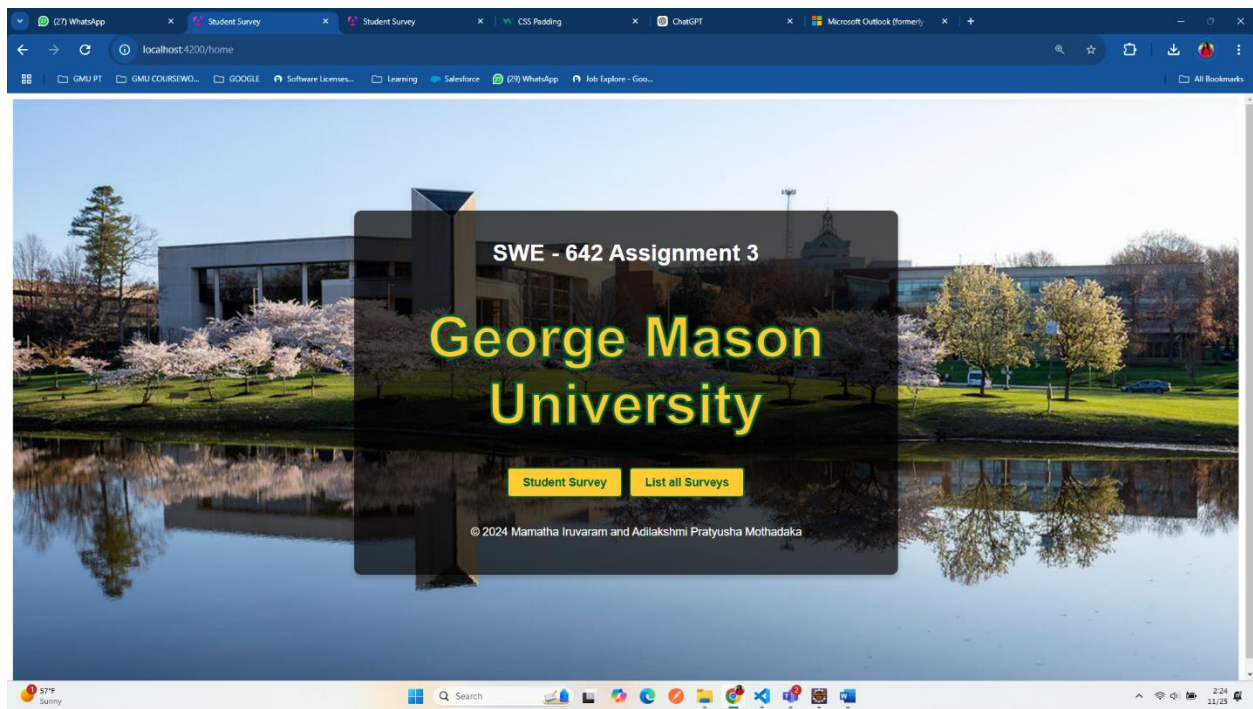
Application Code Setup:

1. Download and install Node.js from their official website.
2. Verify their installation of node in the command line by using the commands **npm -v** and **node -v**

3. Install Angular CLI globally by using the command: **npm install -g @angular/cli** and verify its installation by **ng version**
4. Install JDK from the Oracle website. Verify the installation using the command: **java -version**.
5. Install Spring Boot and verify its installation using **spring -version**.
6. Install the necessary IDEs, Eclipse IDE and Visual Studio Code.
7. In the CLI, create a new angular project using “**ng new project-name**” and navigate to that folder using **cd project-name**. Generate the required components like **homeComponent**, **surveyFormComponent**, **survey-listComponent** using “**ng generate component component-name**”.
8. Open the angular project created in the Visual Studio Code and start developing the front-end code as needed.
9. Create a Spring Boot Project using the Spring Initializr and select Spring Web, Spring Data JPA and MySQL JDBC Driver dependencies. Download the generated project as a ZIP file and extract the project to a desired location.
10. Import the extracted project into Eclipse IDE as a maven project and click finish.
11. Start the Spring Boot Application by right-clicking on the project in Eclipse and **Run As -> Spring Boot App**.
12. Once started, the application can be accessed at URL: <http://localhost:8080>.
13. Start the Angular Application by running “**ng serve**” in the Angular project directory.
14. Now, the angular application can be accessed at the URL: <http://localhost:4200>.
15. The full application can be viewed by opening a web browser and using the URLs to view and interact with the application. This structured workflow ensures the seamless integration of the Angular frontend and Spring Boot backend applications.

Screenshots of the Application:

Home Page:



Survey Form Page:

localhost:4200/survey-form

Student Survey Form

[Home Page](#) [Survey List](#)

First Name:

Last Name:

Street Address:

City:

State:

Zip:

Phone Number:

localhost:4200/survey-form

Email:

Date of Survey:

What did you like most about the campus?

Campus Life ☐

Academics ☐

Facilities ☐

Location ☐

How did you become interested in the university?

Friends ☐

Online Research ☐

University Events ☐

Other ☐

27 WhatsAppStudent SurveyStudent SurveyCSS PaddingChatGPTMicrosoft Outlook (former)localhost:4200/survey-formGMU PTGMU COURSEW...GOOGLESoftware Licens...LearningSalesforce27 WhatsAppJob Explore - Goo...All Bookmarks

Location

How did you become interested in the university?

Friends

Online Research

University Events

Other

Likelihood of Recommending:

Additional Comments:

SubmitCancel

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57°F Sunny2:25 11/23

List of All Surveys Page:

27 WhatsAppStudent SurveyStudent SurveyCSS PaddingChatGPTMicrosoft Outlook (former)localhost:4200/survey-listGMU PTGMU COURSEW...GOOGLESoftware Licens...LearningSalesforce27 WhatsAppJob Explore - Goo...All Bookmarks

List of Surveys


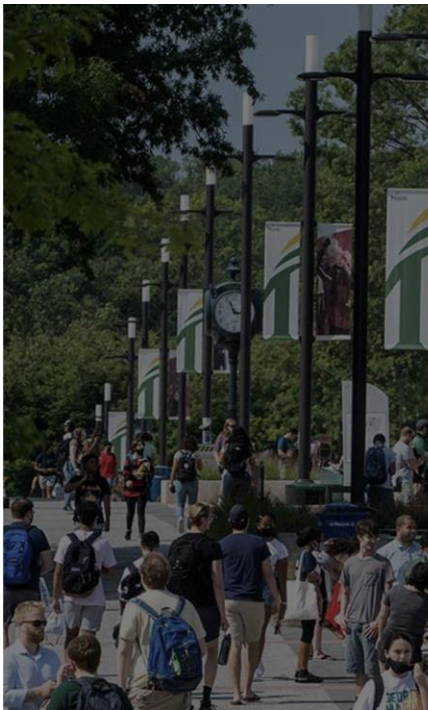
Home PageSurvey Form

First Name	Last Name	Street Address	City	State	Zip	Phone Number	Email	Survey Date	Liked Most	Interest Source	Recommendation Likelihood	Comments	Actions
Aadhy	Sharma	11108 Church St	Ashburn	Virginia	20030	9876841230	aadhy@gmail.com	11/12/24, 12:00 AM	Campus Life Academics, Facilities Location	University Events	Very Likely	test comments	
Sgar	SOPASK	11108 Church St	Fairfax	VA	22030	5715675994	pratyushamotha.daka@gmail.com	11/29/24, 12:00 AM	Campus Life Academics	Friends	Likely	DF	
Sparrow	Kndie	ABC Colony	Fairfax	Chandigarh	22030	1563247890	pratyushamotha.daka1234@gmail.com	11/27/24, 12:00 AM	Campus Life	University Events	Very Likely	xxzx	
Crow	Stevens	11111 Gainsborough Court Apartments	Ashburn	Colorado	12345	8974561234	stevens123@gmail.com	11/28/24, 12:00 AM	Campus Life	Friends	Unlikely	No comments provided	
DFHDIH	SHSDH	SHDFDIH	DFHDIH	HDHDIH	DHD	6302833566	TEST@GMAIL.COM	11/29/24, 12:00 AM	Campus Life Academics	Friends	Unlikely	BSDFB	
Pigeon	Test	sdgdsdgn	ctasc	Andhra Pradesh	535101	7891234560	test234@gmail.com	11/19/24, 12:00 AM	Campus Life	Friends	Likely	sdth	

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57°F Sunny2:28 11/23

Update Survey Form:



Edit Survey

[Home Page](#) [Survey List](#)

First Name:

Mariamtha

Last Name:

Isaacson

Street Address:

gamboroughth

City:

Fortax

State:

AZ

Zip:

22031

Phone Number:

8019891181

Email:

mariviana@msu.edu

Date of Survey:

07/24/2024

What did you like most about the campus?

Library☐

Sports☐

Dorm Rooms☐

Dining Hall☐

Other☐

How did you become interested in the university?

Friend☐



Edit Survey

[Home Page](#)[Survey List](#)

First Name:

Mamatha

Last Name:

Iruvaram

Street Address:

Jermantown

City:

Fairfax

State:

AZ

Zip:

22031

Phone Number:

8019991181

Email:

miruvara@gmu.edu

Date of Survey:

07/24/2024

What did you like most about the campus?

Library

☐

Sports

☐

Dorm Rooms

☐

Dining Hall

☐

Other

☐



List of Surveys after Update:

List of Surveys

Home Page

Survey Form

First Name	Last Name	Street Address	City	State	Zip	Phone Number	Email	Survey Date	Liked Most	Interest Source	Recommendation Likelihood	Comments
Mamatha	Iruvaram	Jermantown	Fairfax	AZ	22031	8019991181	miruvara@gmu.edu	7/23/24, 12:00 AM	Academics	Friends	Somewhat Likely	mmmmmm
Pratyusha	Mohadaka	11108 Church Street	Fairfax	Virginia	22030	5715875994	pratyusha@test.co.in	11/20/24, 12:00 AM	Campus Life/Academics	Online Research	Very Likely	Test Comment
Rohith	K	New Address	Fairfax	VA	22031	9876543210	r@gmail.com	10/26/24, 12:00 AM	Campus Life/Academics	Friend	Very Likely	good
Srikanth	Patnana	Jermantown	vienna	VA	22045	6543298721	srikanth@gmail.com	10/28/24, 12:00 AM	Facilities/Location	University Events	Very Likely	No comments provided

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List of Surveys After Delete:









Student Survey

localhost:4200/survey-list

localhost:4200 says
Are you sure you want to delete the survey by Rohith K?

OK







Cancel

First Name	Last Name	Street Address	City	State						Interest Source	Recommendation Likelihood	Comments	Actions
Manu	thar	Jermantown	Fairfax	AZ	22031	8019991181	minuvara@gmail.com	7/23/24, 12:00 AM	Academics	Friends	Somewhat Likely	mmmmmm	 
Pratyusha	Mothadaka	11108 Church Street	Fairfax	Virginia	22030	5715875994	pratyusha@test.com	11/20/24, 12:00 AM	Campus Life/Academics	Online Research	Very Likely	Test Comment	 
Rohith	K	New Address	Fairfax	VA	22031	9876543210	r@gmail.com	10/26/24, 12:00 AM	Campus Life/Academics	Friend	Very Likely	good	 
Srikanth	Patana	Jermantown	vienna	VA	22045	6543298721	srikanth@gmail.com	10/26/24, 12:00 AM	Facilities/Location	University Events	Very Likely	No comments provided	 

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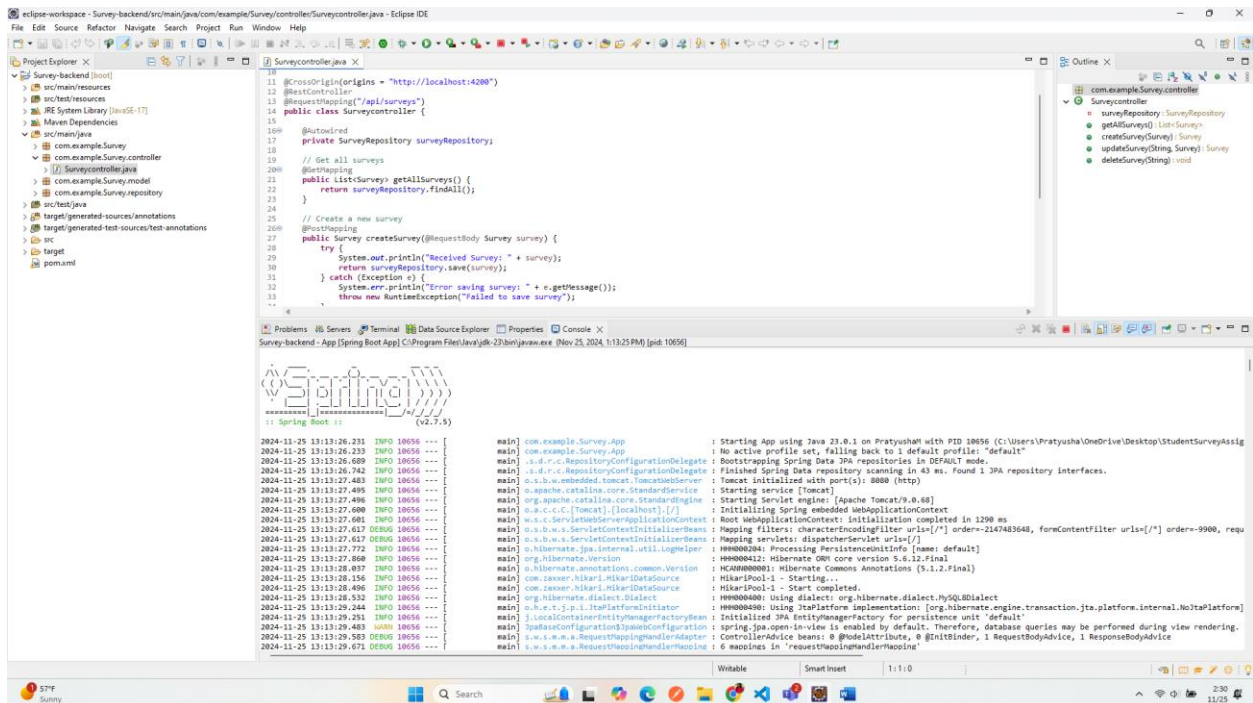
List of Surveys

Home PageSurvey Form

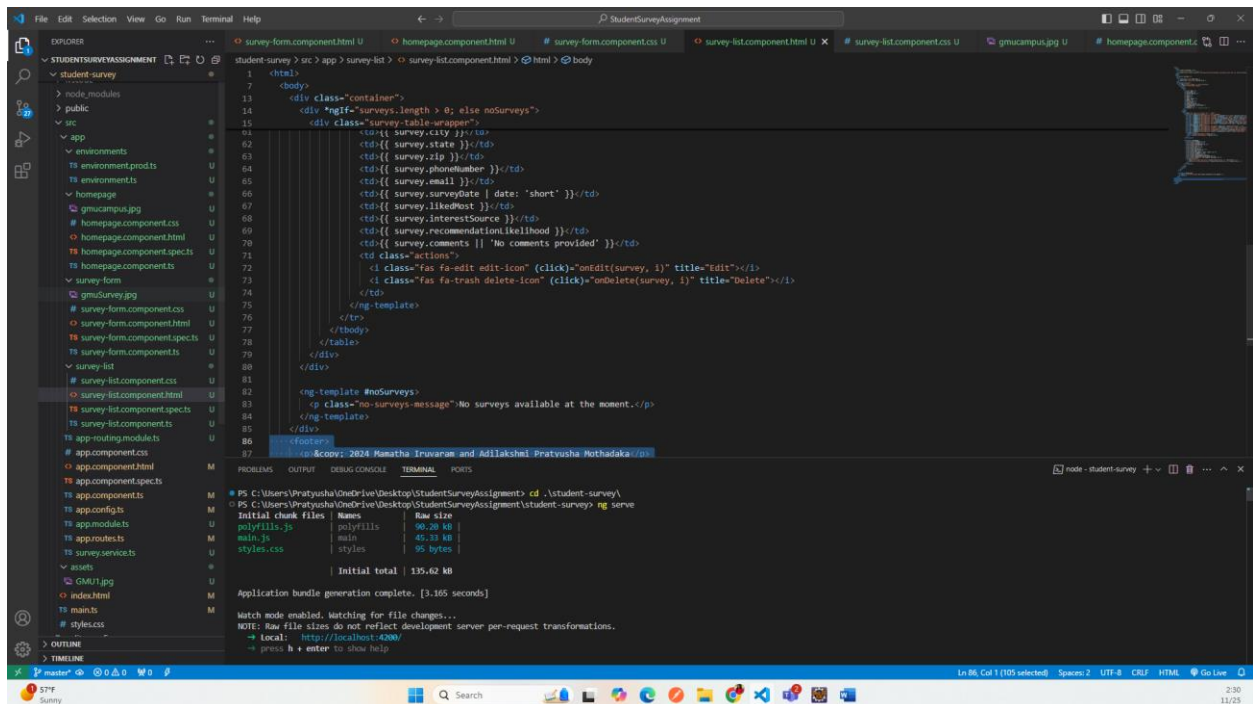
First Name	Last Name	Street Address	City	State	Zip	Phone Number	Email	Survey Date	Liked Most	Interest Source	Recommendation Likelihood	Comments	Actions
Manu	thar	Jermantown	Fairfax	AZ	22031	8019991181	minuvara@gmail.com	7/23/24, 12:00 AM	Academics	Friends	Somewhat Likely	mmmmmm	 
Pratyusha	Mothadaka	11108 Church Street	Fairfax	Virginia	22030	5715875994	pratyusha@test.com	11/20/24, 12:00 AM	Campus Life/Academics	Online Research	Very Likely	Test Comment	 
Srikanth	Patana	Jermantown	vienna	VA	22045	6543298721	srikanth@gmail.com	10/26/24, 12:00 AM	Facilities/Location	University Events	Very Likely	No comments provided	 

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Starting the Spring Boot Application from Eclipse IDE:



Starting the Angular Application from VS Code terminal inside the angular directory:



Output from MySQL Workbench:

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Query 1 x

Limit to 1000 rows

1

2 • select * from survey;

Result Grid

email	city	comments	firstname	interest_source	lastname	phonenumber	recommendation_likelihood	state	street_address
miruvara@gmail.edu	Fairfax	mmmmmm	Mamatha	Friends	Iruvaram	8019991181	Somewhat Likely	AZ	Jermantown
pratyusha@test.com	Fairfax	Test Comment	Pratyusha	Online Research	Mothadaka	5715875994	Very Likely	Virginia	11108 Church
srikanth@gmail.com	vienna		Srikanth	University Events	Patnana	6543298721	Very Likely	VA	Jermantown

survey 24 x

Apply Revert Context Help Snippets

Information

No object selected

Object Info Session

Output

#	Time	Action	Message	Duration / Fetch
29	22:17:23	select * from survey LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
30	22:22:51	select * from survey LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec
31	22:22:58	select * from survey LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
32	22:23:56	select * from survey LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
33	22:24:19	select * from survey LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
34	19:22:05	select * from survey LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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