**Documentation – SWE 642 Vue.js Extra Credit**

The full-stack project has 3 components:

* Frontend
* Backend
* Database

FRONTEND

**Angular Setup**

* Install Angular VUE CLI: npm install -g @vue/cli
* Create a new Vue project: vue new vsab12
* Navigate to the project directory: cd vsab12
* Create Views for homepage,surveypage and surveylist pages.
* Make form and methods in code and routing modules in src/router/index.js
* Run the code in localhost:8084 by running- *npm run serve*

A screen shot of a computer program

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1.**Homepage**:

Has a **Welcome Page**: The initial landing page with two links: "Student Survey" and "List All Surveys".

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**2.Student Survey Form**:

* + **Fields**: Text boxes for first name, last name, street address, city, state, zip, telephone number, e-mail, and date of survey (all required fields).
  + **Checkboxes**: Options for what the student liked most about the campus (students, location, campus, atmosphere, dorm rooms, sports).
  + **Radio Buttons**: Options for how the student became interested in the university (friends, television, Internet, other).
  + **Dropdown**: Likelihood of recommending the school to others (Very Likely, Likely, Unlikely).
  + **Text Area**: For additional comments.
  + **Buttons**: Submit and Cancel buttons.

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1. **Survey List**:
   1. A page displaying all the surveys recorded to date in tabular form:

A screenshot of a survey results

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**Technical Requirements**

* Angular CLI: 18.1.1
* Vue- @vue/cli 5.0.8
* Axios and vue-route package
* VS Studio

BACKEND

**Implementation Details**

1. **Setting Up the Project**:
   * **Spring Boot Setup**: Created a Spring Boot application using Eclipse.
2. **Back-end Development**:
   * **SurveyController**: REST controller to handle survey-related requests.
   * **SurveyService**: Service layer to manage business logic.
   * **SurveyRepository**: Repository layer for database interactions.
   * **SurveyEntity**: JPA entity representing the survey data.

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1. **Database Integration**:

**Application properties with H2 database** using

spring.datasource.url=jdbc:h2:mem:testdb

spring.datasource.driverClassName=org.h2.Driver

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1. **Connecting Front-end and Back-end**:
   * Used vue’s axios module to make HTTP requests to the Spring Boot API on api/survey
   * Run application as springboot application it runs on port 8080
   * Running localhost:8080/api/survey

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The below looks like after form has been submitted in the JSON format:

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**Technical Requirements**

* Eclipse IDE
* Spring boot
* H2 Database

DATABASE:

H2 database gets connected on localhost:8080/h2-console which has all the details of the table and gets auto-populated.

After login test:

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Inside the database:

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