Faculty of Science, Engineering and Technology

Interface Design and Development

Assignment 1. Event Management Web Application

Overview

The purpose of this assignment is to develop a responsive web application using **Vue.js 3** and **Bootstrap** that allows users to search for events and provides a registration form. The web app must be deployed to the university web server (**Mercury**).

Website Requirements

You are required to implement a web application that consists of the following three sections. A sample screenshot is provided below, which primarily illustrates the three sections to give you an overall understanding of the website. Please use your own design while ensuring that all requirements are met.

1. Responsive Content

The web app must include:
- A website title at the top.
- An image related to event management.
- A "Why Choose Us?" section containing six small items, each with:
    o A title
    o A short description
    o You can also include an icon if you like

The layout must be implemented using the Bootstrap grid system with three breakpoints:
- Small screens (mobile) → Display items in a single column.
- Medium screens (tablet) → Display items in two columns.
- Large screens (desktop) → Display items in three columns.

2. Event Information (Searchable Table)

- Initially, display all events from events.txt in a table.
- The table must include four columns:
  - Event ID
  - Event Name
  - Category
  - Duration Hours
  -

Filtering Options:
- Different text inputs for searching by Event ID, Event Name, and Duration.
- Radio buttons for filtering by Category (Technology, Business, Marketing, Finance, All).

3. Registration Form

Implement a registration form that includes:
- A username input field.
- A password input field.
- A confirmation password input field (a message will appear beside the input box if the passwords do not match).
- Radio buttons to select an event category (default: Business when the web app loads).
- A drop-down list for event names, populated dynamically based on the selected category.

Once the user makes a selection, display a summary message showing:
- Username
- Selected category
- Selected event name
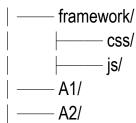
.
Folder Structure

Create a local framework folder with the following subfolders:
      css → Store Bootstrap styles
      js → Store Bootstrap JavaScript components and vue.global.js
In this assignment, you developed a web application and want to keep all resources under your web server. This ensures stability and control, preventing unexpected behavior due to external framework updates.

Your folder structure should look like this:

```
│ ────── framework/
│        ├────── css/
│        ├────── js/
│ ────── A1/
│ ────── A2/
```

If you use other tools (like Vue CLI) to create your project, you don't have to follow this folder structure.

Submission Requirements

- Submit a ZIP file containing all source code to Canvas.
- Upload your web app to Mercury, following the specified folder structure.

Marks Breakdown

- Responsive Design – 3 marks
- Searchable Table – 4 marks
- Registration Form – 4 marks
- Accessibility Requirements – 2 marks
- Mercury Deployment – 1 mark
- Overall Web App Appearance – 1 mark