

Interface Design and Development

Distinction and High Distinction Task 6.2

Custom Web Application

1. Overview

This assignment aims to demonstrate your capability in crafting a high-quality web application by effectively integrating and utilizing the Bootstrap and VueJS frameworks. You are required to exhibit exceptional programming and design standards, showcasing your ability to develop sophisticated and well-architected web solutions.

2. Requirements

You have the freedom to select the theme of your application, such as an e-commerce site, Event Management System, Educational Course Platform, or Real Estate Listing Website. Regardless of the theme you choose, your application must meet the following technical and functional requirements.

2.1 Technical Requirements

Your app must incorporate the following technical aspects:

- Implement a responsive design using the row-column grid system to effectively organize content and layout.
- Utilize VueJS components, routers, and custom directives to build a modular and maintainable codebase.
- Demonstrate skilled use of arrays for dynamic data handling.
- Implement core VueJS directives such as v-bind, v-model, v-if, v-for, and v-on to create interactive and reactive UIs.
- Utilize forms with data validation.
- Adhere to a mobile-first approach, ensuring your application is fully responsive across at least three device sizes.
- Prioritize accessibility in input forms and tables to ensure usability for all users.
- Apply HTML5 coding conventions consistently, including proper case usage and indentation for readability and professionalism.

If you are aiming for an HD (High Distinction) grade, you must also include these additional aspects:

- Utilize methods and computed properties.
- Incorporate data from external sources or data APIs.

2.2 Functional Requirements

Your app must incorporate the following functional aspects:

- Implement features for user registration, login, and differentiation in content visibility between authenticated and unauthenticated users.
- Include capabilities for all users to search for content and use filters to refine results.
- Integrate social functionalities, such as liking or voting on content.

If you are aiming for an HD (High Distinction) grade, you must also include these additional aspects:

- Allow authorized users to create, edit, and delete content.
- Maintain some form of persistent data, through a backend database, JSON files, and so on.

3. Submission

- All source code files for your application.
- A project report, including a brief overview of your app's functionality, technical aspects, and innovative features. The report should be less than 6 pages long.
- A short video demonstrating your app and briefly explaining the implementation of the part of the app you are most proud of. The video should be less than 3 minutes long.