COS30043

Interface Design and Development

Project

In this project, you are required to come up with a topic where your design of the website application and implementation to a very high standard.

Requirements

In this project, you are required to come out with 7 pages based on your chosen topic. The example of 7 pages as below:
- Main page
- Product page
- Shopping cart
- Registration page
- Login page
- My Account page
- My Purchase page

Aim to create something of around the combined complexity of the calculator, units and units web applications. Specifically, it should:

1. Demonstrate the use of context view grouping - implement the web application with a structure of row-column grid system
2. Demonstrate the use of modules - implement the web application with a number of controllers and config. (Maybe even custom directives and filters - optional but nice)
3. Demonstrate the use of arrays
4. Demonstrate the use of directives (selection, and repetition) and filters (format and filter)
5. Demonstrate the mobile first design concept supporting mobile portrait, mobile landscape and desktop
6. Demonstrate accessibility support more specifically on input forms and tables
7. Demonstrate appropriate use HTML 5 coding conventions - case, indentation

Instructions

Your web application must demonstrate the following:

- Ability to design and implement a web application of reasonable complexity.
  - Web application does more than have the user respond to random data (e.g. number guessing game), or simply manipulate data (e.g. calculator, units and units2).
  - The web application must demonstrate the need to think about its view structure, model and module implementation.

- Effective use of decomposition.
  - The web application consists of custom filter, custom directive, and config with little code duplication.
  - Data from external sources or data APIs is used intelligently to minimise the amount of code required.

- Effective use of structure design.
  - HTML structure elements represent meaningful context grouping and row-column system that supports at least three device sizes.
  - Input forms and tables are usable and accessible.

- Use of good programming practices.
  - Code is correctly indented, with meaningful names assigned to all model identifiers
  - Code is commented to help the reader understand the abstractions and how they work.
  - HTML code is HTML 5 compliant, JavaScript code adhere to JSLint rules.

Submissions

Your web application must demonstrate the following:

- Web application source codes (HTML and JavaScript)
- Design Document:
  - Wireframe design diagrams
  - Screenshot of the web application in action
- Video presentation