# JavaScript Assignment - Comprehensive Documentation File

### GitHub Repository URL:

<https://github.com/brandonmicah/ucd-js-assignment>

### **Project Concept:**

The project is going to be an interactive personal portfolio website, this aligns with my goals to acquire a job in the software engineering industry. I want to design to be simple, no overwhelming features, clear and to the point.

### Project Structure/Implemented Interactivity:

**Key pages/sections:**

**Single page website, no external pages.**

* **Navigation**
  + A consistent sticky nav bar at the top of the page and allows for simple transitions between different section of the page
  + JavaScript features
    - Smooth scrolling to sections
    - Event on page load
* **Home/Hero section**
  + Clear simple, understand what the page is.
  + JavaScript features
    - Event on page load
    - Interactive button that smooth scrolls to contact section
* **About section**
  + Small blurb that quickly identifies the purpose of the page and delivers the critical information immediately
* **Projects section**
  + An area to use some interactive java script elements whilst displaying some projects that I have worked on recently.
  + JavaScript features
    - Slider feature to scroll through projects
* **Contact section**
  + A form processed by a JS function that allows users to easily get into contact with me.
  + JavaScript features
    - Modal pop up when form is submitted correctly with a message
    - Alert windows when window is not submitted correctly
    - Object creation to store user contact information
* **Footer section**
  + Copy right and social media links

### Design Decisions:

In designing my project I wanted the website to have all the important information easily accessible, this is why I went with the single page website. I chose a dark background so I could easily highlight the important information also. In choosing the JavaScript functionality I went with things that made the most sense practically first such as processing the contact form, generating a modal pop up and a slider to demonstrate my projects. After that I began to add things that would add some JavaScript interactivity that would make the website more engaging such as the mouse events over the hero text.

### Development Process:

Initially I created a draft wireframe to give me some direction. I then proceeded in creating the structure through HTML and giving the page some basic styling with CSS. I refined the styling a few times over until I was at a stage where I had enough stylistic features available where I could meet the minimum JavaScript requirements. I then implemented JavaScript to add interactivity to the website. Throughout this process adjusting the HTML and CSS to best suit my desired outcome.

### Challenges Faced:

1. The decision making in designing the project. The infinite potential for colour schemes and layouts delayed progress initially.
2. The slider was more difficult than I had anticipated, I had seen it implemented through another course I completed but was surprised how simple variations in design could change the JavaScript requirements.
3. Refactoring my code, this took more time and focus than expected to simplify my code.