**Project 2 Documentation**

# Overview

The purpose of the test is to demonstrate good architectural design. The main 2 aspects of such design will be:

* Modularisation: Ability to reuse the module(s).
* Scalability: extend the functionality of the module(s).

# Constraints

* Browser support is latest Chrome, Firefox, Microsoft Edge.
* NO other frameworks and libraries are permitted other than the JSON framework.
* A written description and/or comments in your code explaining the rationalisation behind your architectural decisions, and what you would have done with more time, is acceptable.

# Background

I have an educational background in MIS but no job-related experience. I have dealt with multiple programming languages during my 4 year term at the University of Mississippi (i.e. java, css, html). I had no experience coding in Javascript before attempting this challenge.

Considering the amount of time I had for this particular project, I tackled it based on what I felt was most important:

1. Creating from the ground up
2. Being able to extend my work

As such, I used an MVC like approach in the design and development of this project.

I tackled the project as follows:

1. design diagram (schematics) (30 minutes, this is the app architecture seen in this document)
2. index.html (5 minutes)
3. index.js (1 hour)
4. styles.css (30 minutes)
5. This document was written in a ongoing manner during development

# Potential Improvement

There are many things that can be done from this work in order to improve upon it. The list is far from exhaustive by any means.

. creating an undo button

.starting the timer as soon as the play button is pressed

# Conclusion

So, this exercise, and the time constraint I had to deal with, was to demonstrate one of the key critical aspect of being a Front-End Web Architect, which is how to architect reusable and scalable solutions with the least amount of code and effort in a clear and efficient manner.

Documentation and up-front preparation are key to a successful implementation, which is why I’ve put much energy towards the building of the document, because in this line of work, not only must we be clever in how we perform our task, but we must also be able to clearly document and inform those around us.

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