# Assignment 1 Documentation

## Overview

The purpose of this assignment was two-fold.

* The goal of the first project was to take an existing Javascript program and extend it ourselves
* The goal of the second project was to work around an existing framework, incorporate it into our design, and work within its constraints

## Constraints

Project 1

* No preexisting frameworks
* Browser support for latest Chrome or Firefox
* Comments to explain your changes

Project 2

* Use provided framework
* Browser support for latest Chrome or Firefox
* Extend or reduce framework as needed

## Background

I have never used Javascript before this class, so almost everything I did was new to me. In Project 1 (MVC), I had to examine the structure of the program and determine where I needed to add in functions to allow for data-entry techniques (“Enter” key to submit, automatically refocus on the text entry bar).

In Project 2 (Quiz Game), I had to design the HTML layout of the quiz itself, then add in dynamic HTML capability using Javascript and the provided framework. The program also had to take in a JSON object via AJAX, which uses the GET method to retrieve information from a webpage.

I approached the project as follows:

Project 1:

* Examine the existing program
* Read up on methods of extending button functionality to include certain keys
* Prevent the default action that normally occurs from an “Enter” keypress
* Refocus on text entry bar

Project 2:

* Design HTML scaffolding (index.html)
* Create dynamic HTML using Javascript (app.js – largest time consumption)
* JSON object (terms.json – 10 minutes)
* CSS (ongoing, needed continuing alterations)
* AJAX (also in app.js, ~2 hours)

## Potential Improvements

This program is the first attempt of a beginner, and can be improved on in many ways.

1. More usage and extension of framework
2. AJAX functionality called as a global rather than every time you play again
3. Look and feel of the app
4. Code optimization

## Conclusion

While this project was not too hard, it definitely made me do a large amount of research, as well as deep dive into the existing framework and classroom examples in order to understand what I was trying to accomplish. Though I may not have accomplished everything I set out to, this project certainly made me learn how Javascript works and how to incorporate it into web pages in many ways I have never done before.

I know my work is not perfect, but I did my best to deliver a working product that satisfied the requirements of the assignment.

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