

# ITSE 2302 Intermediate Web Programming Semester Project

## Overview

In most programming classes, the Semester Project is an assignment where the student creates a full program that exhibits most of the key programming concepts and techniques covered during the semester. Too often, though, this effort fails in demonstrating the students understanding and interpretation of the covered concepts.

In the case of JavaScript, a mature and extensive programming language, there are just too many concepts, practices, and programming elements to try and cover in a single programming assignment. Also, with JavaScript being a popular and prevalent programming language, there are ample “code samples” available for cut-and-pasting into a program. This is not necessarily a bad thing, it just makes it difficult for the student to truly demonstrate their knowledge and mastery of the topic without a lot secondary documentation and explanation.

Given this, we will be taking a slightly different approach in our Semester Project. Consider this more of a Research Project.

## Assignment Value

This assignment is worth 50 points and is the first half of your ‘Final Exam’ grade. The second half of the Final Exam will consist of a Terms and Concepts exam made available during Finals week.

## Specifications

To successfully complete this assignment, you will search the web for and select examples of JavaScript code that serve as robust examples of the following concepts that we have covered these past seven weeks:

1. Employing objects (Ch 3)
2. Using loops (Ch 4)
3. Monitoring and reacting to events (Ch 6)
4. Implementing an API (Ch9)
5. Handling errors (Ch 10)
6. Presenting data with filters and sorts (Ch 12)
7. Validating form data (Ch 13)

For each of these seven concepts, you will:

- capture a snippet of the JavaScript code and, as necessary, the related HTML/CSS that demonstrates the selected concept. You should use your browser's Development Tool and/or JavaScript Console to find and capture this code.
- provide the URL to the related page(s)
- capture a screenshot of the related page(s)
- explain in detail how the code works - reference specific code in the snippet to clarify this section
- note whether you think this was a good or poor implementation explaining your rationale

Consolidate these seven research items and explanations into a single Research Report.

## Deliverables

1. Name your report as ITSE2302-FA18-AB.pdf where 'AB' is your first and last initials. Be sure to save your report as a .pdf file.
2. Upload your report into this dropbox by the due date.