# MIS2402 Final Exam Study Guide

## Overview

In the last few classes, we have focused primarily on using $.getJSON and $.post to interact with API endpoints. Also, students were exposed to concepts related to a single page architecture (SPA) application.

We have also continued to reinforce our understanding of jQuery and JavaScript.

In preparation for the final exam, students are advised to review past lectures, assignments, and in-class exercises (and/or demonstrations) as references.

A page of instructor-provided notes will be given to the students.

## Information about the Final Exam

The exam will be hands-on programming challenges broken down into ten steps. You will have 120 minutes in which to complete the exam.

Students will be given a start file. Students are not required to “start from scratch”.

Students will walk the students through the completion of a very simple web application. Students will need to write code to retrieve or send data using a web service.

There will be a total of 100 points on the exam.

It is strongly recommended that you go through the exam questions in sequential order.

## Topic List

## The following topic list is provided to help students prepare for the exam. It is a list of topics that students should have confidence in. This confidence should extend to combining these topics together to create solutions that may be ***slightly*** different from what students have previously encountered.

1. Bootstrap
   1. The container class
   2. The row class
   3. The col class
   4. Common classes (“alert”,”btn”)
   5. Common contextual classes (“alert-success”,”alert-primary”,”alert-danger”, etc.)
2. HTML
   1. <table> and related tags
   2. <ul> and <li>
   3. <ol> and <li>
   4. The anchor tag: <a>
   5. <form>
   6. <input>
   7. <br>
   8. <p>
3. JavaScript commands and syntax
   1. functions
      1. How to define a JavaScript function using “let”
      2. How to define a callback function used inside of a jQuery method
      3. How parameters are passed into a function
   2. “if” statements
   3. “for” loops
   4. Simple objects / arrays
   5. console.log
4. jQuery selectors
   1. # is used to select by an id attribute
5. jQuery methods
   1. .addClass()
   2. .removeClass()
   3. .show()
   4. .hide()
   5. .val()
   6. .html()
   7. .append()
   8. .serialize()
6. jQuery events
   1. .click()
7. jQuery methods used to make Ajax calls
   1. $.getJSON()
   2. how to define a call back function
   3. how to iterate through the data using for loop
   4. $.post()
   5. .serialize()
   6. Know the difference between the “name” and “id” HTML attributes and which one is used in .serialize()
8. Other
   1. The Google Developer Tools – don’t forget to use them!
   2. Students should be able to recognize JSON text when they see it and be able to interpret simple objects expressed as JSON.
   3. Understand the important difference between id and name attributes of an HTML tag

Please be advised that there may be items on the list that are not on the exam. There also may be items on the exam that are not on the list.

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## Grading

* Each step is worth ten points.
* Your instructor will deduct points in 5-point increments based on what is found/not found in your code.
* You are strongly advised to go through the 10 steps in the order they are written.
* You can lose up to 20 points for failing to upload your work to the right location on MISDEMO, or failing to write down the URL to your work

## Advisories

1. You have 120 minutes in which to complete the exam. If you do not upload your solution (as directed by your instructor) before the end of the exam period (120 minutes) you will receive a zero on the exam. Students are expected to upload their work to misdemo and test it without assistance.
2. Transferring your exam work to another student, either deliberately or through negligence, will be considered cheating and result in a zero for the exam. Incidents of academic dishonesty will be escalated to the University Disciplinary Committee.
3. You are only permitted to use resources specified by the instructor. You are expected to complete the exam using a computer in the classroom. You are expected to work independently, without any external resources other than a single page of handwritten notes. Any student using unapproved resources will receive a zero for the exam and face additional disciplinary action.
4. Taking photographs of the paper exam, or sharing any electronic portion of the exam, is prohibited. Any student doing so will receive a zero for the exam and face additional disciplinary action.
5. Instructors of individual sections of MIS2402 may have additional requirements, instructions, or expectations. Students must follow all directions provided by their individual instructor.