

FINAL ASSESSMENT STUDY GUIDE

HTML, CSS, JAVASCRIPT, JQUERY, ANGULAR, NODE

For the final assessment you will want to be able to...

HTML / CSS

- Write basic HTML tags and add common attributes such as id and class.
- Write common HTML tags with attributes, such as anchor, input, and img.
- Nest HTML elements.
- Use the various kinds of CSS selectors (e.g. element, id, class, descendant).
- Use common CSS pseudo-selectors.
- Use common CSS properties.
- List and give examples how to specify CSS colors and sizes.
- Calculate an element's size based on the box model.
- Use an external font in CSS.

JAVASCRIPT

- Declare and assign variables.
- List data types.
- Give examples of truthy and falsy.
- Use if / else if / else statements.
- Compare values (e.g. equal, greater than, less than)
- Create functions, including correct use of parameters and return. (Note: a lot of questions depend on this. You could lose a lot of points if you're not really comfortable with creating and calling functions.)
- Call functions, including passing arguments and storing or logging the return value.
- Define and call methods.
- Build objects, arrays and arrays of objects.
- Access and modify elements in arrays and objects.
- Use all four types of loops.
- Use native JavaScript DOM methods to find elements by ID, class and element type.
- Variables in function and global scope.

JQUERY

- Write various kinds of jQuery selectors.
- Write simple event handlers with jQuery.
- Using jQuery, make an HTTP request using the method GET and do something with the result.
- Use jQuery to modify the class, attributes or styles of HTML elements.



ANGULAR

- Describe the roles of the three parts of MVC.
- In HTML, use a directive, such as ng-app, ng-model or ng-view.
- Write code to define an Angular module.
- Write a simple Angular controller.
- Write code to manipulate the model within a controller.
- Use Angular expressions, including object dot notation and operators.
- Use HTML text inputs to manipulate the Angular model.
- Use Angular filters, such as uppercase, lowercase, filter, and orderBy.
- Use ng-repeat in HTML with an array. Write it from scratch.
- Make an AJAX call with Angular and do something with the result.
- Define a service using the factory method.
- Use a service within a controller. This requires correct use of dependency injection.
- Define a basic custom directive.
- Use a custom directive in HTML.

NODE.JS

- Use modules, exports and `require` to access JavaScript between two files in Node.
- Require external modules.
- Install npm modules locally and globally.
- Run a JavaScript file from the command line with Node.

