Kuwait University
College of Computing Sciences and Engineering
Department of Information Science

WEBD 6201 Client-Side Programming

Assignment 1
DOM Manipulation

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Assignment 1 – DOM Manipulation

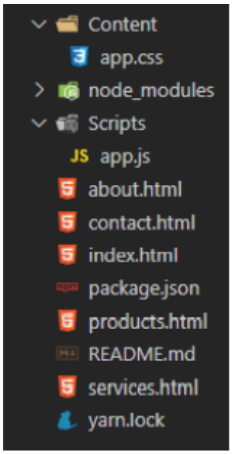
1. Assignment Objective

This assignment was made to practice and reinforce your DOM manipulation skills. You will have the opportunity to investigate and identify elements and attributes within an in-depth DOM. You will also get to practice changing elements within the DOM.

2. Assignment Instructions

Project Setup

a. Your folder structure should follow the same structure as shown below (and in class)



b. Create a basic HTML page with a structure as shown in class (use emmet / hot keys). The page should include a link to your app.css and app.js files from the appropriate folders (content and scripts respectively).
c. Ensure that you include jQuery, bootstrap, and font-awesome as shown in class. You will use the yarn package manager to acquire these files
d. Add a bootstrap Nav Bar. Ensure that it includes several links including: Home, Projects, Services, About Us, and Contact Us.

Project Content

a. Home Page: Include an interesting background image and some text (body) that welcomes the user to your site.

b. Projects Page: Include details (text and images) of three of your favourite (personal) projects.

c. Services Page: Include details (text and images) of three your best skills that you offer to your clients (e.g custom programming, web design, mobile development, etc..)

d. About Us Page: Include details (text and current images) about you (and your partner). Please keep this appropriate.

Simple DOM Manipulation

a. All the text (body) for your site content above, should be injected into the page using JavaScript only. For this lab, you are permitted to hard code your text in JavaScript string variables

b. Using JavaScript only change the Projects link found in the Navbar above Projects

c. Using JavaScript only, add another link to the Navbar above, named Human Resources, that sits between About Us and Contact Us. To be clear, you may not hard code this in the HTML file, this must be done using DOM manipulation. Ensure that you also include an appropriate font-icon using font-awesome (similar expectation to the other Navbar links)

d. Using JavaScript only, add another Navbar at the bottom of the page, that is a "fixed bottom" navbar (Navbar · Bootstrap v5.1 (getbootstrap.com)). Ensure that you include a copyright statement with the current date in the Navbar.

Contact Form

a. Include a form that asks the user for their contact information (e.g. Name, Contact Number, Email Address, and Short Message)
b. When the user clicks on the submit button, the form will output the user's information to the console.
c. Clicking the submit button should start a timer. After 3 seconds, the user will be redirected back to the Home Page. The form does not have to be fully functional (e.g. have the capability of sending the user information to the server) for this lab

Internal Documentation

a. Ensure you include a comment header at the top of your app.js file that indicates: Your Full Name, StudentID and Date Completed
b. Ensure you include function headers for all of your functions
c. Ensure your program uses contextual variable names that help make your code human readable
d. Ensure you include inline comments as required. As a rule, the code should be descriptive but sometimes some information is required, especially before any function you include.

GitHub Share

a. Share your files on GitHub. Create an appropriately named **private** repository that you and your partner(s) will use for this lab. Only 1 repository is required
b. Your repository must include your well-structured code.

Host your site

a. Host your site live on a Cloud Provider of your Choice (GitHub pages recommended)
b. Your site's images should be visible on your Live site
c. Your CSS Layout should function appropriately on your Live Site
d. Your Script files should function appropriately on your Live Site

Video Presentation

a. Create a Short Video presentation. Your presentation should start with an introduction, where it must include a PowerPoint or Google slide that includes 1 single slide to, that introduces each member of your group, to start your video.

b. The first (and only) slide of your presentation must include current images of you and your partner(s) (no avatars allowed) that are displayed appropriately on the page. You must also include your Full Names, Student IDs, the Course Code, Course Name, and your Assignment information.

c. You or your partner(s) will demonstrate your program's functionality. You must show your site working properly on your live site. You will also use your assignment status report as a checklist during your Video Presentation

d. You or your partner(s) will each share in describing the code in your files that drives the functionality of your program – you will want to do this part well and be clear.

e. Sound for your video must at an appropriate level so that your voices may be clearly heard, and your screen resolution should be set so that your program's code and console details are clearly visible

f. Your Short Video should run no more than ~5 minutes

Submission

1. A zip archive of your project uploaded to DCConnect
    a. Please include your video recording (mp4 preferred)
2. A working link to your complete project files on GitHub
3. A working link to your Live Site hosted on a Cloud Provider of your Choice (GitHub pages recommended)
4. Your completed Assignment Status Report
5. Late submissions are deducted -25% per day (max 3 days)
6. Individual (non-group submission) are deducted -15%