WAPH-Web Application Programming and Hacking

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Figure 1: Simon's headshot

Project 1

Overview

I created and deployed a personal website on github.io with information including my resume, name, headshot, and contact information. This includes a link to another HTML page with information about the course, Web Application Programming and Hacking (WAPH). The personal website includes the use of Bootstrap, React, and a page tracker. It also includes basic JavaScript code, JQuery, Web APIs, and cookies.

https://github.com/spf125/spf125.github.io

Creating and Deploying Webpage

Using github.io, I created an index.html file that similar to the HTML file created in Lab 2. I then created a waph.html file containing information about this course and its assignments. I committed these to the github repo, so they are now accessible as a webpage at https://spf125.github.io/.

CSS template (Bootstrap)

To implement Bootstrap, I found a template from BootstrapMade. I then incorporated this into my current index.html file.

Page Tracker

To add a page tracker to my website, I decided to use https://analytics.with google.com. This involved creating an account and creating a property for the website. I then had to add the google tag inside my all of my HTML files in the website which is in the form of a JS script.

Basic JavaScript code (JQuery and React)

Digital Clock This feature is implemented by using JavaScript code within the index.html file. The function displayTime() is called every 500ms which sets the current time using the Data() function. This is placed on the webpage using the getElementById() function.

Analog Clock The analog clock is implemented by using an external JavaScript file from https://waph-uc.github.io/clock.js. By including this script and using a canvas tag in the index.html file, I was able to create the analog clock by calling the different JS functions within the external clock.js file.

Show/Hide Email To implement this feature, I created a JavaScript file titled email.js that has a function called showhideEmail(). This function either shows or hides email when the text is clicked. This is then placed in a <div> with the onclick attribute calling the showhideEmail() function.

Using React to Implement Counter For the final feature, I implemented a counter that increments with a button press and decrements with a different button press using React. This was accomplished by adding the lenks for the React development. I then used React with basic JavaScript code to create a class Counter that extends the React.Component. Then, using the React render() function, I was able to create the buttons the increment and decrement the counter using event handlers.

Web API Integration

jokeAPI To implement the joke of the day API, I used JQuery. JQuery gets the JSON from the webpage https://v2.jokeapi.dev/joke/Any. I then check if it's a two part joke or a single, and then put this response at the joke ID. I use setInterval to call the function to get the joke of the day every 1 minute.

API with Graphic Similar to the joke of the day, this API is also implemented with JQuery. However, since my access to https://xkcd.com/info.0.json is blocked

CORs, I had to use an external tool, https://api.allorigins.win/get?url=, to pull the contents from the API.

JavaScript Cookies

To implement JavaScript cookies, I had to create three functions: SetCookie(), GetCookie(), and CheckCookie(). The SetCookie() function creates a cookie with a given name, value, and days until it expires. The GetCookie() function either returns blank or the value of the cookie given the cookie's name. Then, CheckCookie() has the logic to check if a user has visited the website or not, displaying the correct message to the HTML. For displaying the cookie, I chose to make it a banner that extends from the top of the screen using HTML and CSS with a button to close the banner.