WAPH-Web Application Programming and Hacking

Instructor: Dr. Phu Phung

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Short-bio: Interested in backend software developement/devOps and enhancing

cloud security.



Figure 1: Amaan Bilwar's headshot

Repository Information

Respository's URL: https://github.com/amaan/amaanbilwar.github.io

This is a private repository for Amaan Bilwar to store all code from the course.

Individual Project 1

Front-end Web Development with a Professional Profile Website on github.io cloud service

Overview

In order to receive free hosting on the Github cloud service, we built a front-end web application for this project, a professional portfolio website, and deployed it on github.io/github pages. There are three types of needs for this project: general, non-technical, and technical. Additional duties include setting cookies, integrating an API, and creating a flag counter.

For this Project, I have created a public repository that can be accessed through https://github.com/amaanbilwar/amaan.github.io

General Requirements

Made a public repository with the name amaanbilwar.github.io. Then I have created a html file with name waph.html. This file includes the course information and the overview of all the completed Labs, Hackathons and Individual Projects. This website can be accessed through https://amaanbilwar.github.io/waph.html

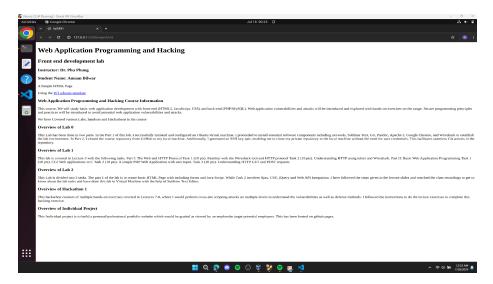


Figure 2: Screenshot of waph.html

After cloning,n I have created a html file idex.html for my personal website on

Github cloud as a professional profile to add to my resume. This website can be accessed through https://amaanbilwar.github.io/

My professional website includes the following sections: 1. About 2. Experience 3. Education 4. Skills 5. Projects 6. Additional Tasks

Used BootStrap template and changed styling accordingly.



Figure 3: Home Page of index.html

You can use the navigation bar to quickly and swiftly navigate around the web page

At the end the website contains all the additional tasks required for this project.

Non-Technical Requirements

Next, for the Non-technical Requirements:

- 1. Open source bootstrap template.
- 2. Included a Page tracker, i.e flag counter, which notes the visits of the page and countries where this page has been opened.

Technical Requirements

Coming to the Technical Requirements:

- 1. The jQuery and Java Script code was introduced in Lab 2 for displaying Digital Clock, Analog Clock, Show/Hide My Email.
- 2. Used Vue and integrated a public API for fetching a random quote.

The Code for this functionality is in the script tag:

```
new Vue({
    el: '#app',
    data: {
        quote: {
            content: '',
            originator: {
                name: ''
        }
    },
    methods: {
        async fetchQuote() {
            const options = {
                method: 'GET',
                url: 'https://random-quote-generator2.p.rapidapi.com/randomQuote',
                    'X-RapidAPI-Key': 'b9b5a91c2emsh000a90d32a87145p1c5729jsne626d5f90d2
                    'X-RapidAPI-Host': 'random-quote-generator2.p.rapidapi.com'
                }
            };
            try {
                const response = await axios.request(options);
                if (Array.isArray(response.data) && response.data.length > 0) {
                    const quote = response.data[0];
                    this.quote.content = quote.Quote;
                    this.quote.originator.name = quote.Author;
                } else {
                    console.error('Invalid data received from the API:', response.data)
                }
            } catch (error) {
                console.error(error);
        }
    },
    created() {
        // Fetch a quote when the app is created
        this.fetchQuote();
        // Fetch a new quote every 12 hours
        setInterval(this.fetchQuote, 12 * 60 * 60 * 1000);
    }
});
```

Code in HTML to display the Quote:

This functionality is inserted in the home page of the website.

Next, I have integrated 2 public webAPI's into my website.

They are:

1. Integrated the joke API https://v2.jokeapi.dev/joke/Any to display any random joke into the website and displays a new joke for every minute. For this calling, I have set interval for calling the function every minute.

Code:

2. Integrated a public API which is to display the current weather using https://www.weatherbit.io. I have generated a API Key and integrated it into my website with all the JSON data returned from the API to display the data I have styled it using CSS and displayed the Temperature, Icon, Location and the weather description.

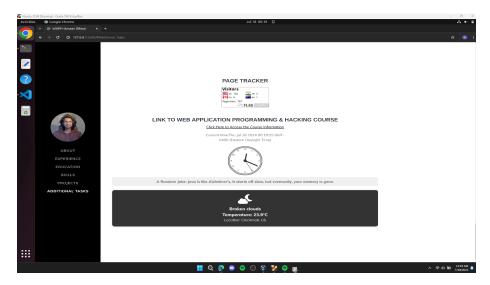


Figure 4: Screenshot of all above Technical Req

Additionally, as per the requirement, I have set cookies to remember the user, So, for the first time a pop up will be displayed saying Welcome to my Home page, and for the next visit it displays a pop up saying Welcome back and the date and time when the user have visited last.

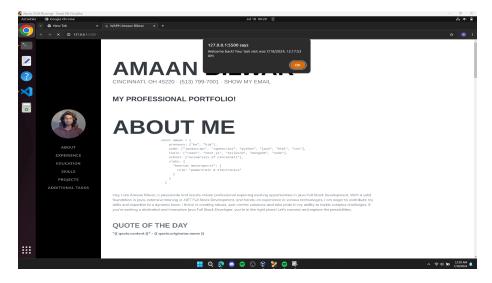


Figure 5: First Time user and Saved Cookies