Web Application Programming and Hacking

Instructor: Dr. Phu Phung

Individual Project 1 – Professional Profile Website with API Integration

Name: Pratyush Srivastava
Email: srivaspu@mail.uc.edu

Links

- **Deployed Website:** https://pratysri.github.io
- **GitHub Repository:** https://github.com/pratysri/pratysri.github.io

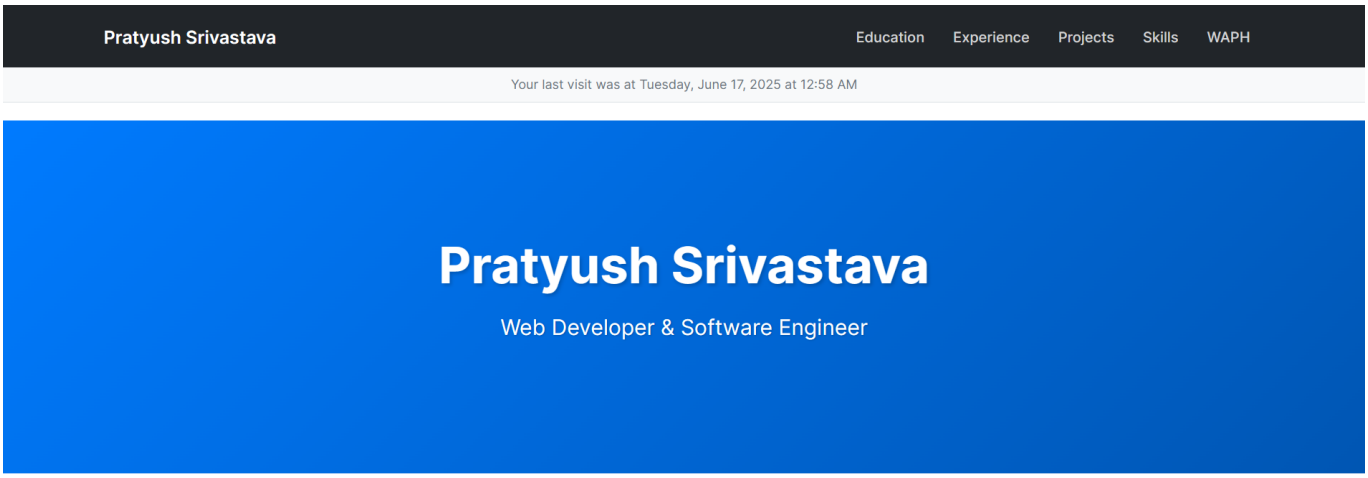
Overview

In this project, I created a personal professional profile website deployed on GitHub Pages. The site includes my resume, education, experience, skills, and interactive JavaScript components such as clocks and live APIs. I also integrated two public APIs and added localStorage-based tracking for first-time and returning visitors.

Through this assignment, I strengthened my understanding of front-end development, AJAX-based web services, JavaScript state handling, and GitHub-based deployment.

1. General Requirements

Personal Profile Website (25 pts)

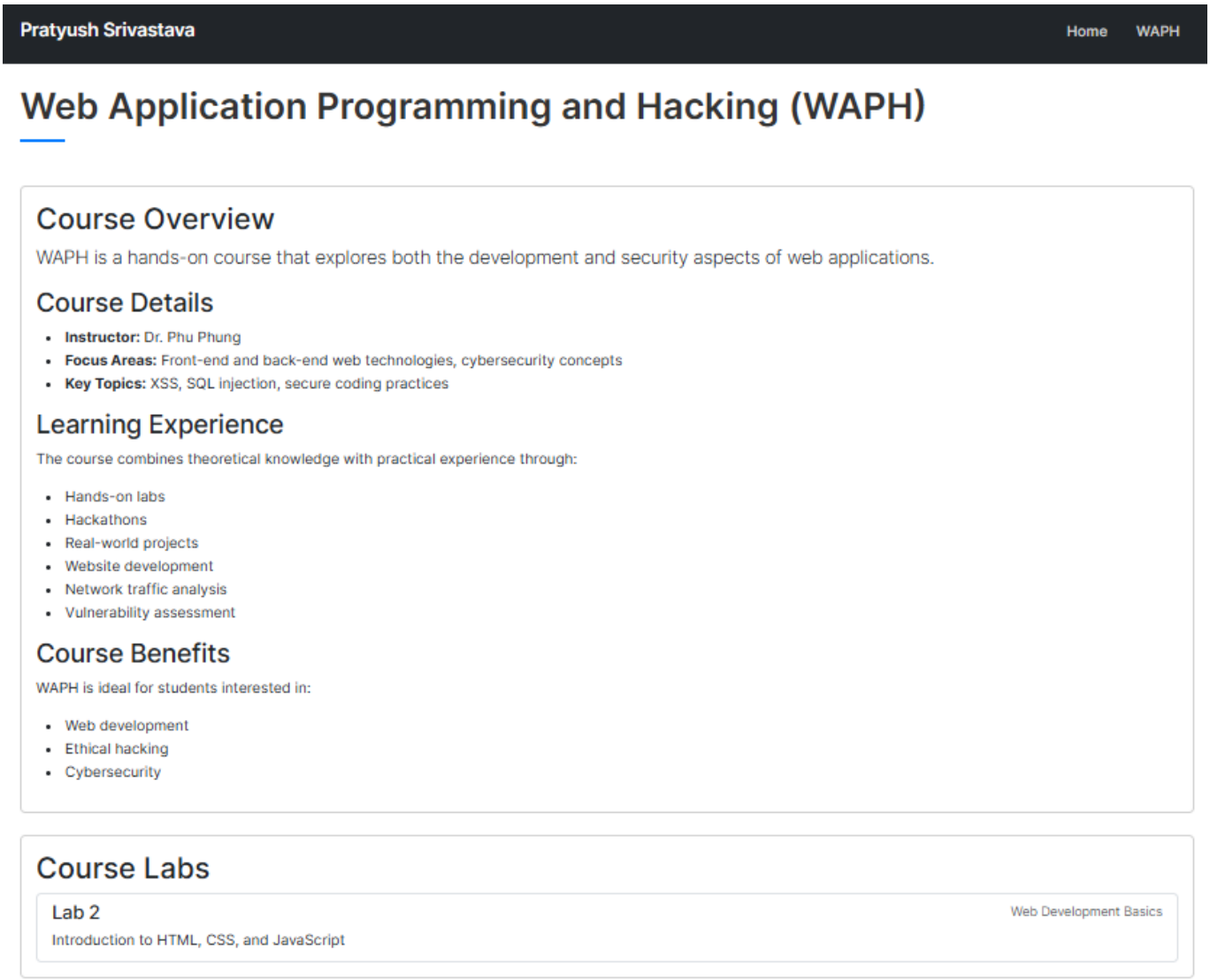


About Me

Screenshot: Main profile page with navigation and sections

- Used custom Bootstrap-based theme with modern design
- Included my name, photo (150x150), contact info, education, experience, and skills
- Resume provided as downloadable PDF (`resume/resume.pdf`)

WAPH Course Page (5 pts)



Screenshot: WAPH course page with lab summaries

- Created `waph.html` with a summary of WAPH class, labs, and learning takeaways
- Linked this page from the main navigation

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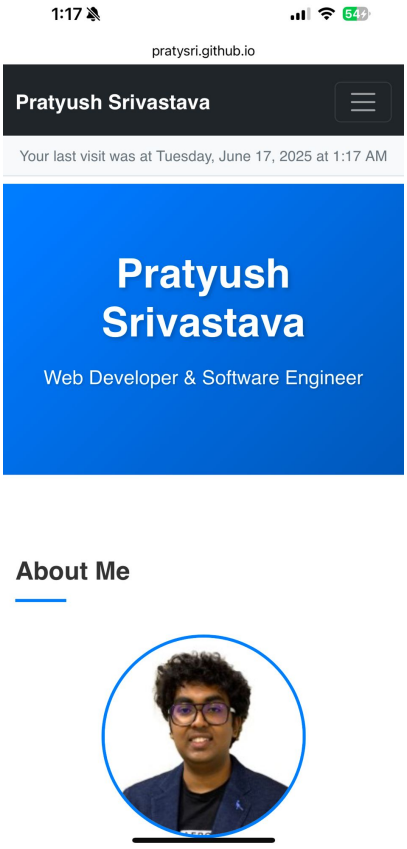
2. Non-Technical Requirements (20 pts)

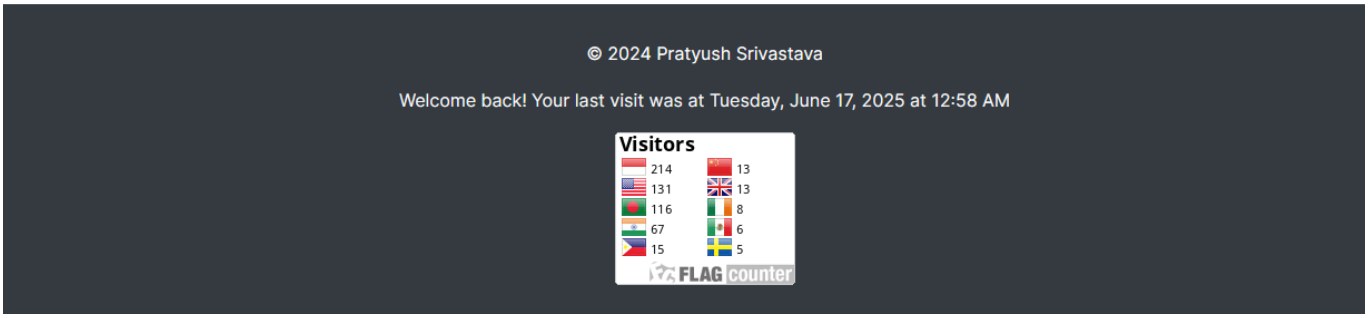
CSS Template



Screenshot: Website on mobile device

- Used Bootstrap via CDN for styling
- Applied a clean, mobile-friendly layout with custom color scheme
- Implemented smooth scrolling and fade-in animations

Page Tracker



Screenshot: Flag counter widget

- Embedded Flag Counter to count visitors

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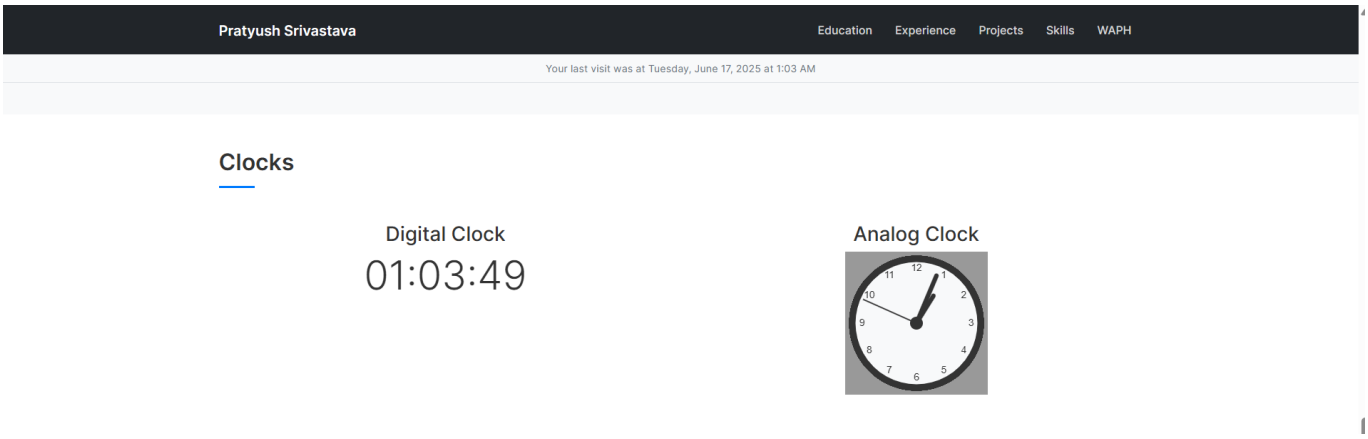
3. Technical Requirements (50 pts)

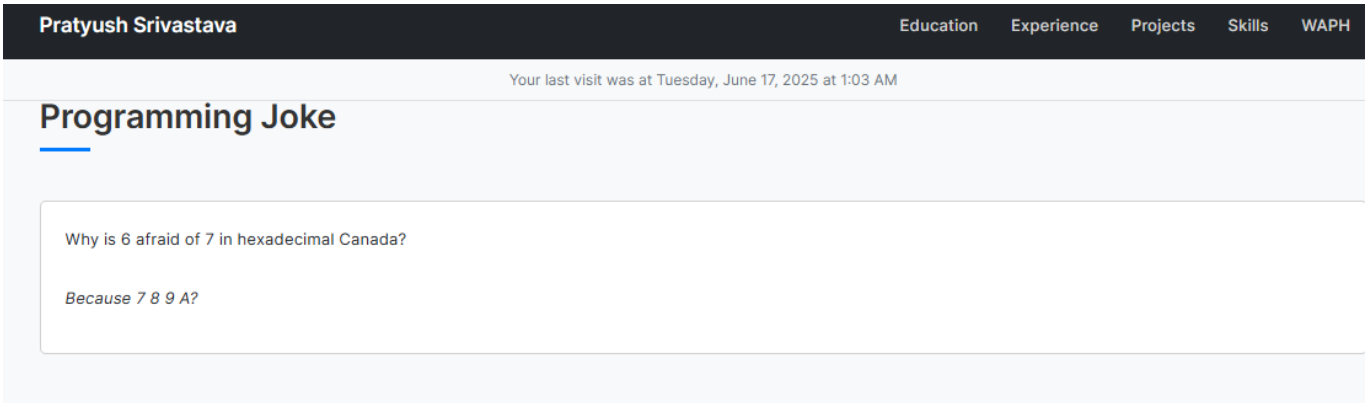
JavaScript Features (20 pts)

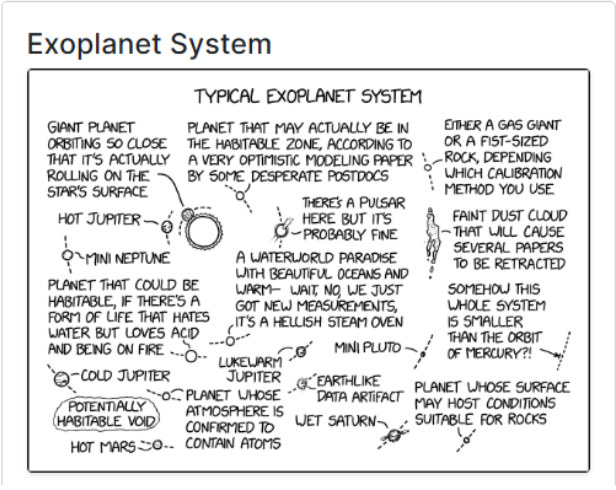


Screenshot: Digital and analog clocks

- **Digital Clock:** Added using `setInterval()` to update current time
- **Analog Clock:** Built with Canvas and JavaScript drawing functions
- **Dark Mode Toggle:** Implemented theme switching with localStorage persistence
- **Last Visit Tracking:** Shows last visit time using localStorage

API Integration (20 pts)

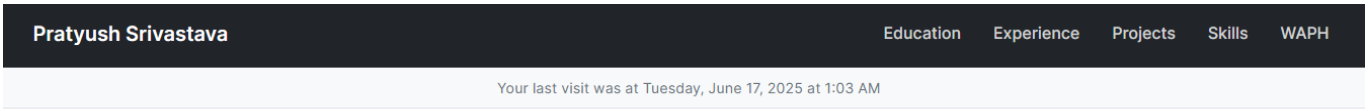




Screenshot: Joke API and XKCD comic sections

- **Joke API:** Used `https://v2.jokeapi.dev/joke/Programming?safe-mode` to fetch programming jokes
- **XKCD Comic:** Fetched and displayed latest XKCD comic using `https://xkcd.vercel.app/?comic=latest`
- **Disclaimer:** Displayed under both API sections to indicate third-party content

Visit Tracking (10 pts)



Screenshot: Last visit display

- Shows last visit time at the top of the page
- Uses localStorage to persist visit information
- Updates automatically on each page load

Final Thoughts

This project helped me integrate multiple frontend concepts including dynamic JavaScript behavior, public web APIs, and persistent browser state. It was also a valuable experience in deploying a site publicly using GitHub Pages, making it suitable for real-world professional use.