Web Development Design Document

Project Overview

Project Name: Personal Webpage

Date: 9/22/2025

Designer/Developer: Stewart Almeida

Version: 1.0

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1. Project Description

1.1 Project Summary

A personal webpage created based on my own background, this project aims to provide a quick overview of myself to professors, fellow students and potential employers. A brief background overview, interests, skills, and links to other projects/sites are provided.

1.2 Project Goals

- **Primary Goal:** Create a functional personal webpage that provides a concise summary of myself while maintaining a professional aspect for potential employers.
- **Secondary Goals:**
    - Include a unique functionality using JS (> 5 lines)
    - Include 2 additional pages - 1 of my own choosing, 1 generated from AI (Claude)

1.3 Target Audience

Current target audience includes fellow students, course professors, and potential employers in CS.

1.4 Key Features

- Smooth scrolling for main page sections
- Unique JS functionality - scroll to top button
- Cards outlining projects worked on
- Links to outside sites (GitHub/LinkedIn)

- Dark consistent design overlay

2. User Personas

Persona 1: Adam

Demographics:

- Age: 38
- Occupation: Senior Web Developer
- Location: California
- Tech Savviness: High

Goals:

- Obtain a quick but comprehensive overview of an applicant's background and skill set
- Examine applicants personal work, determine if they have a solid skill set

Quote: "Need someone who can handle the job - someone who we can work with but not having to start from scratch on teaching them the basics."

Persona 2: Xavier

Demographics:

- Age: 43
- Occupation: CS Professor
- Location: Boston
- Tech Savviness: High

Goals:

- Examine code provided and determine if best practices are utilized, outline matches assignment requirements, and overall objective was achieved.
- Ensure students are implementing ideas and techniques discussed in class in a meaningful manner.

Quote: "Use what you've learned, follow the necessary guidelines, and continue thinking about innovations/improvements - show us what you can."

Persona 3: Kinsey

Demographics:

- Age: 28
- Occupation: Student
- Location: Boston
- Tech Savviness: Low

Goals:

- Examine and determine the functionality of a fellow student's webpage and review their code regarding implementations and design overlay.
- Take best practices implemented and consider what takeaways they could use for their own site.

Quote: "Curious what everyone else decided to go with - let's see what everyone focused on."

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3. User Stories

User Story 1.1:

- **As a** potential employer
- **I want** to screen out candidates
- **So that** my company can look to hire someone fit for the job
- **Acceptance Criteria:**
    - Functional site created
    - Background/skills covered and relevant
    - Links to secondary sources (GitHub/LinkedIn)

User Story 1.2:

- **As a** professor
- **I want** evaluate the project worked on by a student
- **So that** they can be graded and given items of improvement
- **Acceptance Criteria:**
    - Rubric followed and applicable items are addressed with a proper submission of required materials.
    - Students employ techniques discussed in class, expanded out and included things they learned on their own.

User Story 2.1:

- **As a** student
- **I want** to evaluate a fellow student's site and examine their code
- **So that** I can take best practices and provide feedback for future work
- **Acceptance Criteria:**
    - Site is functional and conveys pertinent information
    - Code structure is solid and easy to follow

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4. Site Architecture & Navigation

4.1 Site Map

```
Homepage
├── About Me
├── Projects
├── Contact
├── Extra
│   ├── About Them
│   └── Ai
```

4.2 Navigation Structure

- **Primary Navigation:** Home, About Me, Projects, Contact, Extra, GitHub, LinkedIn, Resume
- **Secondary Navigation:** Extra > About Them, Ai

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5. Content Strategy

5.1 Content Types

- Text overview on background
- Images - background for landing page section, icons for interests, cropped for projects and profile. Additional pictures on the carousel in the "About Them" section.
- Carousel images, corner button to auto scroll to top of page

5.2 Content Tone & Voice

- **Tone:** Professional but casual

- **Voice Characteristics:** Friendly with the option for a conversation always open. Ready to discuss any professional aspects.

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6. Visual Design Guidelines

6.1 Color Palette

- **Primary Color:** Black (22, 22, 22)
- **Secondary Color:** Pale White (228, 225, 225)
- **Background:** Black (22, 22, 22)
- **Text Colors:** Main text > (228, 225, 225), headers > (136, 133, 133), landing name > White (255, 255, 255), landing subtext > Grey White (194, 188, 188)

6.2 Typography

- **Primary/Secondary Font:** Ubuntu
- **Font Sizes:** H2, large, larger

6.3 Visual Style

- **Style Direction:** Modern, Minimalist
- **Key Visual Elements:** Full page landing section, popover buttons with a hover effect, cards covering projects worked on, carousel for personal images.

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7. Technical Requirements

7.1 Platform & Technologies

- **Frontend:** HTML, CSS, Bootstrap, JavaScript
- **Hosting:** GitHub Pages

7.2 Responsive Design

- **Mobile-first approach:** Yes
- **Breakpoints:** Base container breakpoints, 100% for fluid containers

8. Development Timeline

Phase 1: Planning & Design (Day 1)

- Create wireframes
- Gather content and assets

Phase 2: Development Setup (Day 2)

- Set up development environment
- Create basic HTML structure

Phase 3: Core Development (Day 3-4)

- Build main pages
- Implement interactive features
- Add content

Phase 4: Testing & Launch (Day 5)

- Cross-browser testing
- Deploy to hosting platform
- Complete submission requirements

9. Testing Plan

9.1 Functional Testing

- [X] All links work correctly
- [X] Interactive elements function as expected

9.2 Usability Testing

- [X] Navigation is intuitive
- [X] Content is easy to read
- [X] User goals can be accomplished easily

9.3 Technical Testing

- [X] Site loads quickly
- [X] Works on different browsers
- [X] Responsive on various screen sizes
- [ ] Accessible to users with disabilities

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10. Launch & Maintenance

10.1 Pre-Launch Checklist

- [X] Content review and proofreading
- [X] Final testing on live environment
- [ ] SEO optimization (meta tags, descriptions)
- [ ] Analytics setup

10.2 Post-Launch Plan

- **Monitoring:** N/A
- **Updates:** Updates as needed
- **Maintenance:** N/A

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11. Resources & References

11.1 Inspiration

- Twitch: I like their dark mode look overall, combined with how their tags look as well
- Apple: When viewing their products, the overall large initial landing page appeals to me.

11.2 Tools & Assets

- **Design Tools:** Paint3D
- **Code Editor:** VS Code
- **Image Sources:** Custom photography
- **Icon Sources:** SVGRepo, GitHub, W3.org

Appendices

Appendix A: Wireframes

https://imgur.com/a/jcKlbkW

Very (very) rough image sketch of what my overall design idea was for the main page.