Lab Report for Resume Portfolio

Links

- Portfolio Webpage: My Portfolio
- GitHub Repository: GitHub Repository

Portfolio Website and GitHub Repository Format

Website Structure

The portfolio website is divided into several sections, each representing a different aspect:

- **Header (Navigation)**: Provides links to the About, Experience, Projects, and Contact sections.
- **Introduction**: A short introduction with a profile picture.
- **About**: Section to showcase personal background.
- **Experience**: Summaries of professional experience and skills.
- **Projects**: Showcases various personal projects and links them to the GitHub Repository.
- **Contact**: Contains contact information and a form for visitors to reach out.
- **Footer**: Displays copyright information.

GitHub Repository Structure

The GitHub repository contains the following files and directories:

- **index.html**: Main HTML file containing the structure of the webpage.
- **style.css**: Contains all the styles used in the webpage.
- **mediaqueries.css**: CSS rules for the responsive design.
- **script.js**: JavaScript functions for interactive elements.

- **assets/**: Directory containing images and the resume used in the webpage.

- **README.md**: Provides the LaTeX code of this PDF file.

Design Decisions

Clean and Simple Layout: The design focuses on content within the webpage without overwhelming visitors with overly glamorous effects. Using ample white space and a consistent color scheme helps maintain a professional look.

Responsive Design: Ensures that the portfolio looks good on all devices. The `mediaqueries.css` adjusts the layout based on screen size.

Typography (fonts): The Poppins font from Google Fonts is used throughout the webpage to provide a modern and readable look.

Interactive Elements

Navigation Menu: Styled to be both functional and visually appealing, improving the interface and providing a technical touch. Flexbox is used to align the items and space within the navigation bar. Hover effects are added to links to enhance interactivity.

Buttons: Smooth hover effects are achieved with transitions. Padding and border radius are added to make buttons more appealing and clickable. The code for these features is found in the `style.css` file.

Profile: Includes a centered layout with a profile picture beside the introduction and one under the 'About Me' section. Flexbox is used to align images and provide spacing between elements for better readability.

Tools and Technology

A combination of computing languages was used, with the majority of the site done in HTML and CSS:

- **HTML**: Used for the content of the portfolio (`index.html`).

- **CSS**: Used for styling and ensuring website responsiveness (`style.css` and `mediaqueries.css`).

- **JavaScript**: Used for adding interactive features such as toggling the navigation menu.

- **GitHub**: Used for version control, hosting the webpage through Pages, and organizing files in a repository.

- **Virtual Studio Code**: Primary text editor used for building the webpage. Extensions like Live Server allowed viewing the webpage during development.

- **Git**: Used for pulling, pushing, and committing changes to the GitHub repository.

```
function toggleMenu() {
  const menu = document.querySelector(".menu-links");
  const icon = document.querySelector(".hamburger-icon");
  menu.classList.toggle("open");
  icon.classList.toggle("open");
}
```

Figure 1: Interactive Elements code snippet

Reflections

Strengths

- **Responsive Design**: The website looks good on all devices.

- **Clean Layout**: The design is simple and professional.

- **Easy Navigation**: The navigation menu is user-friendly and responsive.

Weaknesses

- **Limited Interactivity**: The website does not have many interactive elements.

- **Basic Styling**: Although the website appears clean, it could benefit from more styling enhancements.

Future Improvements

- **Expand Content**: Add more projects and provide detailed descriptions.

- **Add Animations**: Use subtle animations to improve user experience.

- **Improve Accessibility**: Add features to make the website more accessible for users with disabilities.

```css
nav, .nav-links {
  display: flex;
}

nav {
  justify-content: space-around;
  align-items: center;
  height: 17vh;
}

.nav-links {
  gap: 2rem;
  list-style: none;
  font-size: 1.5rem;
}

a {
  color: black;
  text-decoration: none;
  text-decoration-color: white;
}

a:hover {
  color: grey;
  text-decoration: underline;
  text-underline-offset: 1rem;
  text-decoration-color: rgb(181, 181, 181);
}
```

Figure 2: Navigation Menu code snippet

```css
@media screen and (max-width: 1200px) {
  #desktop-nav {
    display: none;
  }
  #hamburger-nav {
    display: flex;
  }
}
```

Figure 3: Responsive design snippet

```css
@import url("https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap");
body {
  font-family: "Poppins", sans-serif;
}
```

Figure 4: Typography Code snippet