

**SWINBURNE VIETNAM
ALLIANCE PROGRAM**



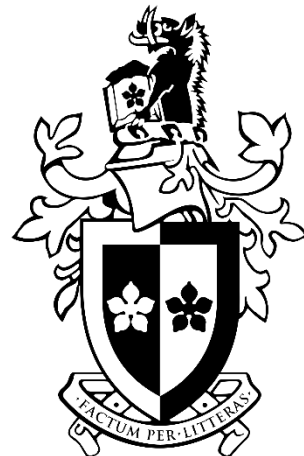
Project Part 1: Individual Report

(Computing Technology Inquiry Project – COS10026)

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I. Introduction

Computing Technology Inquiry, students in the class must form a group of four members to complete this project. Therefore, the scenario requires each group to develop a website for an IT company that must include a Homepage, Position Descriptions page, Job application page, and a page about the group, attached with CSS files. In general, the primary purpose of the task is to evaluate students' knowledge and skills in HTML and CSS.

Additionally, the website aims to help an IT company recruit employees in various positions with a friendly and gentle interface. Due to these requirements, my group including four members named APTX-4869 decided to develop a website for an IT company named CodeWeave Innovations, containing five categories as the project's requirement. Moreover, the report begins with the Introduction, Accessibility Guideline, Website Content and Style, Your Contribution and Reflection, Conclusion, References, and Appendix.

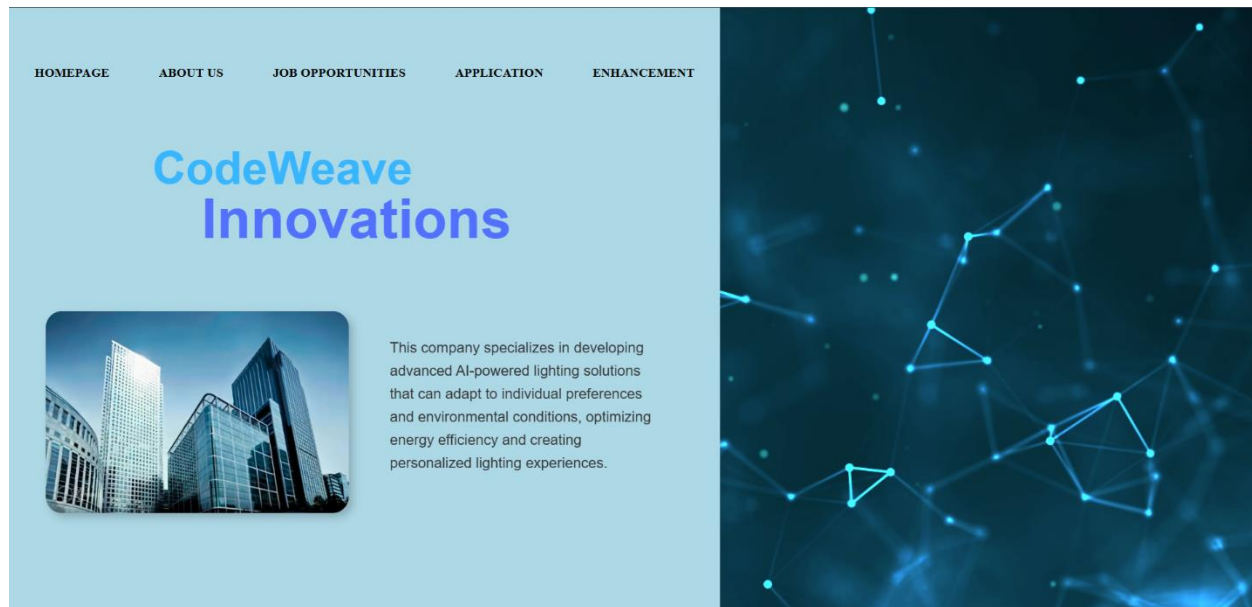
II. Accessibility Guideline

While developing the CodeWeave Innovation IT Company recruitment website, my 4-member team meet various challenges throughout the development phase. Moreover, the following sections below instruct readers, users, and job seekers to access the webpage from the Homepage to the Enhancement page, allowing them to have a unique experience and friendly interface. In addition, during the building web process, all members in APTX-4869 always prioritize important work, collaborative problem-solving, leveraging each member's specialized skills, and allowing all team members suggest creativity solutions, specifically in the CSS structure. Furthermore, as a co-leader and programmer in the group, implementing accessibility best practices, ensuring the website was inclusive and usable by all potential candidates. After finishing the website, my team members utilized the Web Content Accessibility Guidelines (WCAG) tool to check for errors, surprisingly, there were no errors.

III. Website Content & Style

III.1. The “Homepage” interface

In the Website Content and Style section, the report represents the architectural framework of the website, delving into the complex site map, a detailed description of each page's purpose and primary content, and the CSS markup methodologies employed.



First and foremost, the provided picture above presents the homepage for the recruitment of employees of CodeWeave Innovations, an IT company. In addition, the company uses an animation video for the background and color light with a friendly interface, attracting users and job seekers. In addition, the design of the homepage website features a light blue rectangle occupying approximately two-thirds of the left side, enlisting the five sub-categories in the header, company name, and brief description.

Therefore, the navigation bar, which is displayed on the top of Homepage, includes clickable links to five key pages such as “Homepage”, “About Us”, “Job Opportunities”, “Application”, and “Enhancement”, offering a professional and interactive online presence for the CodeWeave Innovations company. Notably, when users or job seekers hover their mouse or click any sub-category, for example “About Us”, the text will change to color white, offering a unique experience for them. Specifically, this function is implemented throughout the company website. On the other hand, the dark background remains nearly one-third of the right side and showcases interconnected graphics, symbolizing innovation and connectivity in today's world.

III.2. The “About Us” page

Furthermore, to gain a deep understanding of CodeWeave Innovations' team and members, navigate to the “About Us” page via the navigation bar on the Homepage. For more details, the “About Us” page provides detailed insights into personal information, positions, group-working timetables, the tutor image, and quotes while supporting and developing the website.

HOMEPAGE

ABOUT US

JOBS

APPLICATION

ENHANCEMENT



APTX-4869



Name : Dương Nguyễn Đăng
Student ID: SWS01389
Position: Designer, Leader
Skill: Teamwork, Communication
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Name : Phạm Đình Đức Anh
Student ID: SWS01484
Position: Programmer
Skill: Teamwork, HTML/CSS
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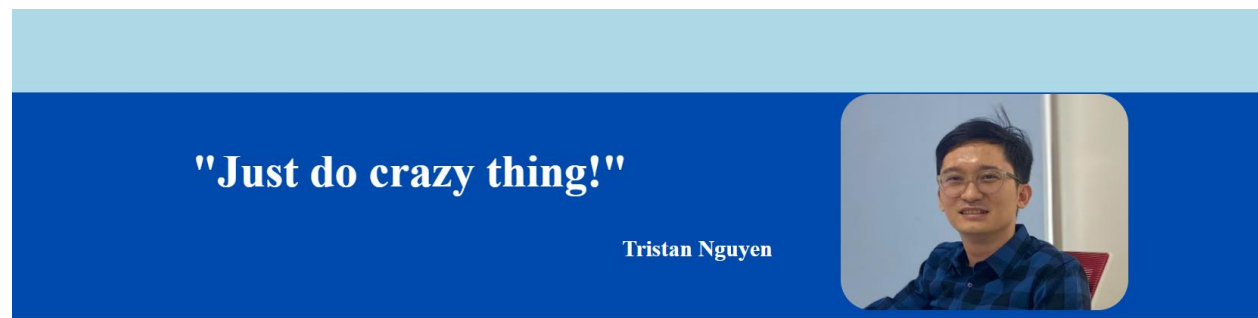
Name : Trương Ngọc Gia Hieu
Student ID: SWS01217
Position: Programmer, Co-Leader
Skill: Teamwork, Communication, Programming
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Name : Nguyễn Minh Hoàng
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Position: Programmer
Skill: Programming
Contact: 105543500@student.swin.edu.vn

Available time

time	mon	tue	wed	thu	fri	sat
7-11 am			X			
1-5pm	X					X
5-9pm						



It is clear from the three given pictures that this page illustrates the detailed portrait of CodeWeave Innovations company, demonstrating the collaboration between team members within the group image. In addition, each white corner rectangle displays personal information including full name, student ID, skills, contact information, and role in this project. Moreover, the available time indicates collaboration time during the project, fostering a community sense and strengthening member relationships. Next, in the header of the “About Us” page, the project requires groups to upload the tutor's image and his quotes as in the provided picture.

III.3. The “Job Opportunities”/” Jobs” page

[HOMEPAGE](#)
[ABOUT US](#)
[JOBS](#)
[APPLICATION](#)
[ENHANCEMENT](#)

Position Descriptions

\$70,000 - \$120,000/month

CI10023: Senior Front-End Developer

Lead the development of beautiful and engaging user interfaces for our web applications, ensuring a top-notch user experience.

Requirement:

- Skill: JavaScript (ES6+), React, HTML5, CSS3, Testing Frameworks.
- Certificate: Front-end development certifications/Relative
- Characteristic: Strong problem-solving, creativity, communication, and collaboration
- Experience: 5+ years of professional front-end development experience.
- Language: Excellent English

[Apply now →](#)

\$80,000 - \$160,000/month

CI10015: Full-Stack Developer

Build and maintain the full stack of our web applications, from front-end interfaces to back-end systems and databases, while contributing to various projects throughout the software development lifecycle.

Requirement:

- Skill: JavaScript (ES6+), React, HTML5, CSS3, Testing Frameworks, Node.js, Python/Django, or Java/Spring, SQL/NoSQL
- Certificate: Full-Stack development certifications/Relative
- Characteristic: Strong problem-solving, communication, creativity, and collaboration
- Experience: Experience with database design and management (MySQL, PostgreSQL, MongoDB).
- Language: Excellent English

[Apply now →](#)

\$90,000 - \$170,000/month

CI20053: Data Engineer

Design and maintain our data infrastructure to support data-driven decision-making, working with large datasets, ETL processes, and data warehousing to ensure quality and accessibility.

Requirement:

- Skill: SQL, Data Analysis, Scripting (Python), ETL basics. Experience with cloud data warehousing a plus.
- Certificate: Not required.
- Characteristic: Analytical, detail-oriented, comfortable with data manipulation, proactive.
- Experience: 1-2 years or even recent graduates with relevant projects.
- Language: Excellent English.

[Apply now →](#)

\$65,000 - \$110,000/month

CI10008: Cybersecurity Engineer

Implement and maintain security measures to protect our systems and data from cyber threats, ensuring the safety of digital assets and business continuity.

Requirement:

- Skill: Network Security Basics, Security Auditing, Incident Response, Linux/Unix.
- Certificate: CompTIA Security+ or similar a plus.
- Characteristic: Analytical, problem-solver, security-conscious, adaptable.
- Experience: 1-2 years, or strong entry-level candidates with relevant skills.
- Language: Proficient English.

[Apply now →](#)

\$55,000 - \$100,000/month

CI30025: UX/UI Designer

Design intuitive and engaging user experiences for our web and mobile applications through user research, wireframing, prototyping, and visual design, ensuring products are both aesthetically pleasing and functional

Requirement:

- Skill: Design Tools (Figma, Sketch), User Research, Wireframing, Prototyping, Visual Design.
- Certificate: Not required.
- Characteristic: Creative, user-focused, collaborative, able to iterate quickly.
- Experience: 1-2 years or a strong portfolio of projects.
- Language: Proficient English.

[Apply now →](#)

\$60,000 - \$110,000/month

CI10034: Mobile App Developer (iOS/Android)

Develop and maintain high-quality mobile applications for the iOS or Android platform.

Requirement:

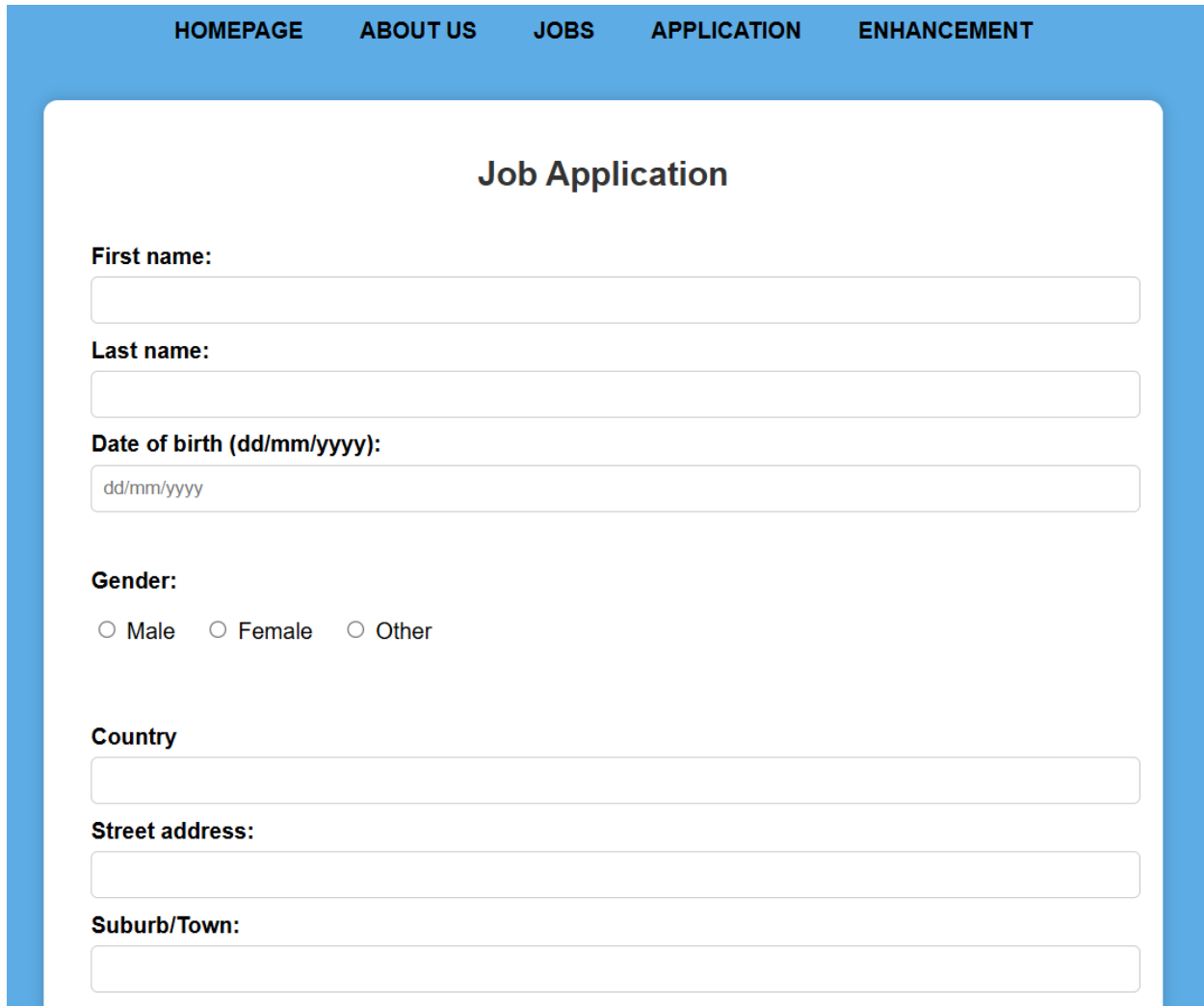
- Skill: Swift/Kotlin, mobile UI frameworks,
- Certificate: Not required
- Characteristic: Creative, user-focused, collaborative, communication, and proactive.
- Experience: 1-2 years or a strong portfolio of projects.
- Language: Proficient English.

[Apply now →](#)

Following the “About Us” page, individuals seeking to participate in the CodeWeave Innovations company on the professional level are invited to the “Job Opportunities” page via the sub-category on the header.

It can be seen from the two provided pictures that in the “Job Opportunites” part, CodeWeave Innovations, an IT Company, needs six distinct roles including Senior Front-End Developer, Full-Stack Developer, Data Engineer, Cybersecurity Engineer, UX/UI Designer, and Mobile App Developer (IOS/Android). Notably, each position describes its suitable salary, description, reference number, role, and requirements to adapt to the professional job.

III.4. The “Application” page



HOMEPAGE ABOUT US JOBS APPLICATION ENHANCEMENT

Job Application

First name:

Last name:

Date of birth (dd/mm/yyyy):

Gender:

☐ Male ☐ Female ☐ Other

Country

Street address:

Suburb/Town:

Suburb/Town:**State:****Postcode:****Job reference number:****Email address:****Phone number:****Skill list (tick the ones you have, can choose multiple options):**

- ☐ Teamwork ☐ Problem-Solving ☐ Adaptability ☐ Time Management ☐ Leadership
☐ HTML/CSS ☐ Python ☐ React ☐ JavaScript ☐ MySQL

Other skills:[Apply](#)

Following the "Job Opportunities"/"Job" page, suppose applicants adapt the required skills according to the job requirements. In that case, they can click the text “Apply now” to navigate the application form and embark on the occupation journey with IT Company.

On the “Apply” page, job seekers must fill out the job application form in accordance with the standard requirements in Project Description Part 1. Specifically, applicants must fill in all information and are not allowed to fill in any fields.

First name: maximum 20 alpha characters

Last name: maximum 20 alpha characters

Date of birth: fill in with the format dd/mm/yyyy

Gender: Allows applicant to select one of three options (Male, Female, or Other)

Country: Fill the country that applicant comes from

Street Address: maximum 40 characters

Suburban/Town: maximum 40 characters

State: applicant must choose one option from the dropdown list

Postcode: exactly 4 digits

Job reference number: applicant must choose one option from the dropdown list

Email address: validate format

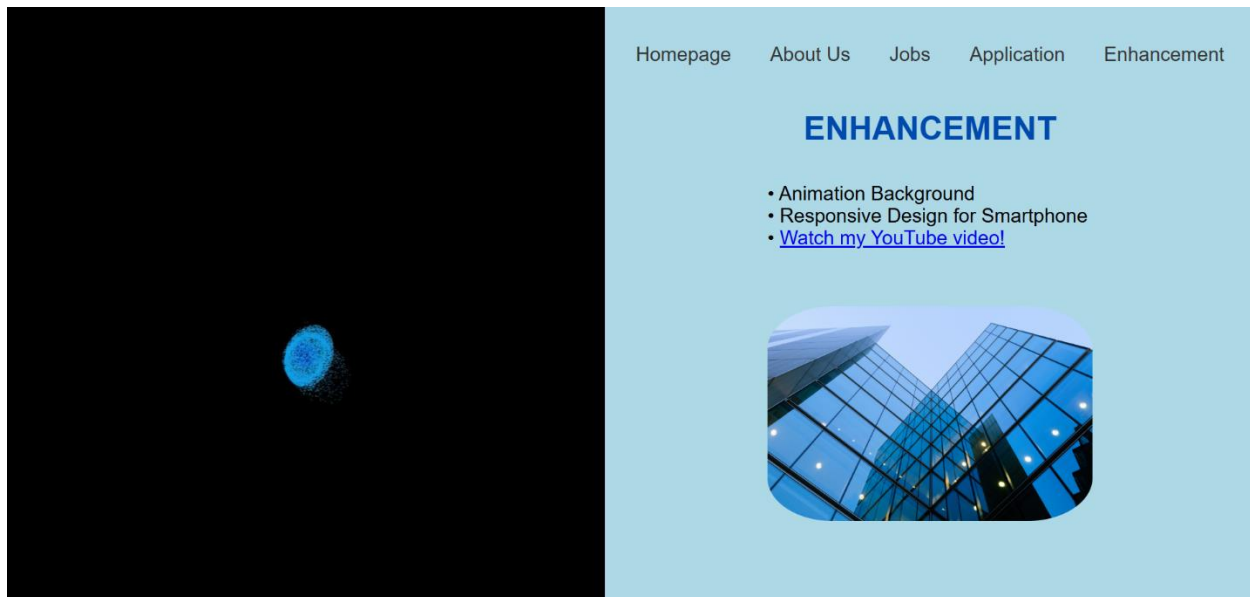
Phone number: from 8 to 12 digits, or spaces

Skill list: There is already a provided list so the applicant can select one or more skills.

Other skill: The applicant can text other skills in this section

After filling on the personal information and skills in the application form, the applicant can click on the button “Apply”

III.5. The “Enhancement” page



Upon successful submission of the application, the user or applicant can navigate to the “Enhancement” page. In this section, the report offers additional resources and information, enhancing the website interface and user experience.

On the “Enhancement” page, the Codeweave Innovations company decides to split the screen into half which the background is the animation video. Therefore, in the right side, the blue rectangle

contains five-subcategories, a bulleted list detailing “Animation Background”, “Responsive Design for Smartphone”, and a clickable link “Watch my Youtube video!”. Finally, a company image is positioned in the lower right, adding a visual element. In conclusion, the page “Enhancement” displays innovative factors like using animation video for background, suitable font size and images, colors, attracting user and applicants.

III.6. The CSS markups

```
1  /* Basic Styling */
2  √ #background-video {
3      position: fixed; /* Stays in place even when scrolling */
4      top: 0;
5      left: 0;
6      width: 100%;
7      height: 100%;
8      object-fit: cover; /* Makes the video cover the entire viewport */
9  }
10
11 √ .rectangle {
12     position: absolute; /* Or fixed, as you prefer */
13     top: 0;
14     left: 0;
15     width: 57%; /* Adjust as needed */
16     height: 100%; /* Adjust as needed */
17     background-color: ■lightblue; /* Or your blue color */
18     display: flex; /* Enable Flexbox */
19     flex-direction: row; /* Arrange items in a row */
20     justify-content: center; /* Center horizontally */
21     align-items: flex-start; /* Align items to the top */ /* Changed this line */
22     padding-top: 20px; /* Add top padding to create space */ /* Changed this line */
23     gap: 20px; /* Adjust spacing between items */
24 }
```

```
26 .company-name {
27     display: flex;
28     flex-direction: column;
29     align-items: center; /* Center horizontally within name container */
30     line-height: 1.2;
31     margin-right: auto; /* Push name to the left */
32     margin-left: 20px; /* Add space from the left edge */
33 }
34
35 .company-name span {
36     display: block;
37     font-size: 1.2em; /* Adjust as needed */
38     font-weight: bold; /* Adjust as needed */
39 }
40
41 .nav-links {
42     display: flex;
43     flex-direction: row;
44     gap: 10px; /* Adjust spacing between links */
45     /* No margin adjustments here - let them stay where they are */
46 }
47
48 .rectangle a {
49     color: black;
50     text-decoration: none;
51     font-size: 0.97em; /* Adjust as needed */
52     padding: 50px 20px; /* Adjust as needed */
53     background-color: transparent; /* Or a different background color */
54     transition: background-color 0.3s ease;
55     border: none;
56     font-weight: bold; /* Adjust as needed */
57 }
58
```

In the CSS markups section, the report describes how CSS markup is structured around selectors and declaration blocks. Moreover, CSS styling involves selecting HTML elements and then defining their visual attributes. Furthermore, element selection is achieved through a set of selectors, and the attributes are defined within declaration blocks. As a result, the cascade and specificity rules determine which attributes are applied, maintaining the logical structure while developing the company website, readable CSS code, and commented code.

IV. Contribution and Reflection

As the co-leader of the group APTX-4869 for developing a recruitment website for CodeWeave Innovations IT company, I frequently suggest a logical strategy for developing the company

website, keeping track of the progress, and generating a suitable time for team collaboration, allowing team members to have a deep understanding of each other and supporting my team leader. Additionally, as a programmer in the group, I should have a fundamental knowledge to understand complex code, write, and fix to adapt to the project requirements. Therefore, I frequently ensure the IT Company website is strong technically robust, and user-friendly. Therefore, my team APTX-4869 always implements the best practices in web development, organizes clear performance, and collaborates to deliver a platform for effectively attracts users and applicants.

On the other hand, in my role as a co-leader and programmer of the group APTX-4869 for creating a recruitment website for the CodeWeave Innovations company, my group faces various challenges throughout the development website process. Therefore, CodeWeave Innovations' recruitment website requires a complex interplay of technical and strategic hurdles. In addition, the primary challenge for the website is to ensure a responsive and visually engaging user interface across a multitude of devices and screen sizes, demanding meticulous attention to CSS frameworks and media queries. Moreover, implementing smooth and interactive interfaces like dynamic job filters and animation video require advanced CSS techniques and logical performance optimization to prevent several errors, ensuring maintainability and scalability for future updates. Due to these difficult challenges, my team always features them and finds suitable solutions to solve these problems. As a result, CodeWeave Innovations company recruitment website is user-friendly and efficient platform for applicants and users.

V. Conclusion

Next, to further enhance the CodeWeave Innovations recruitment website, the company recommend several key improvements. Firstly, implementing various testing on page layouts and content elements suggest valuable data for optimizing user engagement and conversion rates. Secondly, incorporating personalized content based on user behavior, such as recommended job listings or targeted testimonials, creating a more tailored experience. Thirdly, continuous monitoring of website analytics and user feedback is extremely important for identifying areas for improvement and ensuring ongoing optimization. In addition, combining a chatbot for instant candidate support and frequently asked questions would also improve the user's experience. Therefore, the powerful AI tool allows users and job seekers to ask relevant questions about job opportunities on the webpage. Finally, exploring advanced SEO strategies, including targeted content marketing and backlink building, can further expand the website's reach and attract a wider pool of qualified candidates.

In conclusion, the report detailed the development of CodeWeave Innovations' recruitment website, emphasizing the challenges and achievements encountered during the front-end development phase. Furthermore, the CodeWeave Innovations team addressed complexities of creating a user-friendly and responsive interface, optimizing performance for interactive elements and media, and ensuring cross-browser compatibility. Although there are several challenges during

developing the website, the team successfully delivered a dynamic recruitment website with complex scalable CSS architecture, significantly enhancing the candidate experience and strengthening CodeWeave's company brand. Finally, the project underscores the critical role of a well-crafted online presence in attracting top-tier IT talent and effectively communicating company culture.