# Project Part 1

## Computing Technology Project (COS10026)

**SUBMITTED BY:**

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**SUBMITTED TO**

Mr. Tristan Nguyen

**DATE OF SUBMISSION:**

## I/ Introduction

### a) Website introduction

There is no question that websites play a pivotal role in connecting people to each other and easing our life in different ways. With this mindset, We as SFC have developed a website to promote and employ potential workers for the available positions related to the software engineering industry. Hence, the website is designed with clear structure and sufficient job information for those who may have interest in applying for a position.

### b) Objective

The purpose of this report is to illustrate clearly the content, the structure, style and key features that were used for the website.

### c) Report Struture

The report will be presented by the following structure:

First, I would explain how we made the website more accessible for people who have visibility problems, such as color-blindness or visual impairment. Secondly, I would demonstrate our website's content, following that by discussing the style and key features that were applied during the project. Finally, I will show what I have contributed to our project and end with the conclusion.

## II/Accessibility Guideline

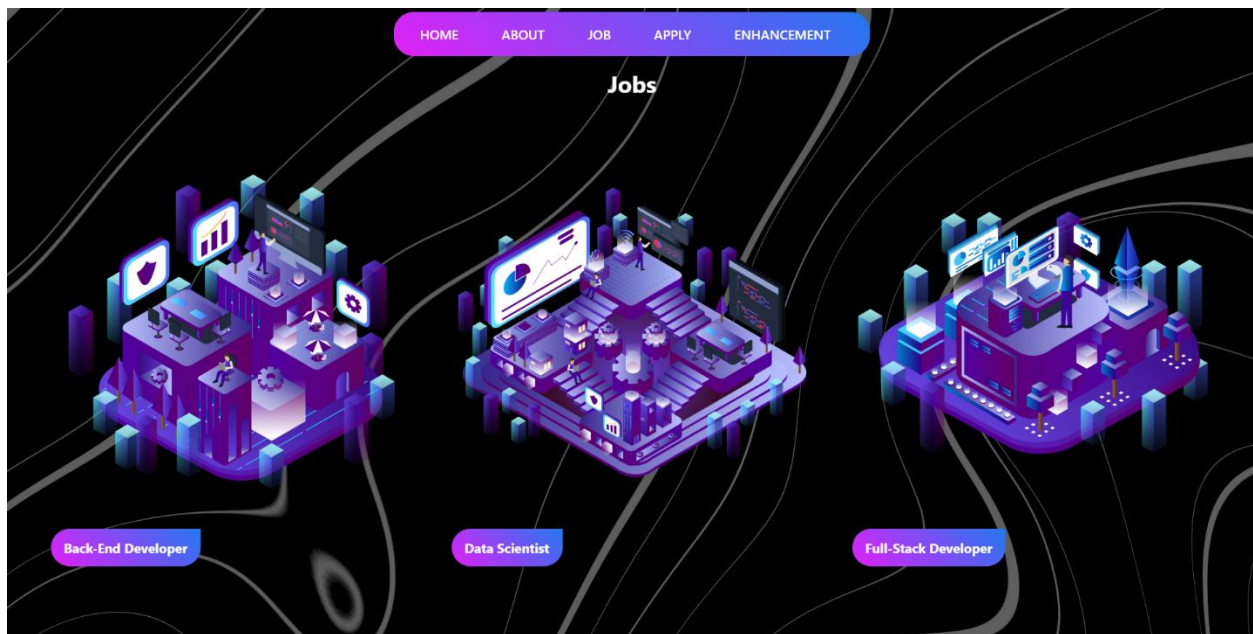### a) Tips and roles to follow to make the web pages accessible

During the process of developing the website, our team has decided to choose a simple font and bigger size for each text so that people can read

each context without any difficulties, even for people who have visual impairments. Furthermore, we chose each color carefully, with the background and text color abstract with each other, but at the same time the color can be read by color-blinded people. And finally, we chose to use a rather colorful gradient design that everyone can see on each website, this can be seen in the following example.

**b) Example of the following guidelines**



## Join Our Team – Build the Future with Us!

Looking for an exciting career opportunity? We're on the hunt for passionate, driven individuals to join our team! Whether you're a seasoned professional or just starting your journey, we offer a dynamic workplace where innovation, collaboration, and growth thrive.

Explore our open positions and take the next step toward a rewarding career. Your future starts here!
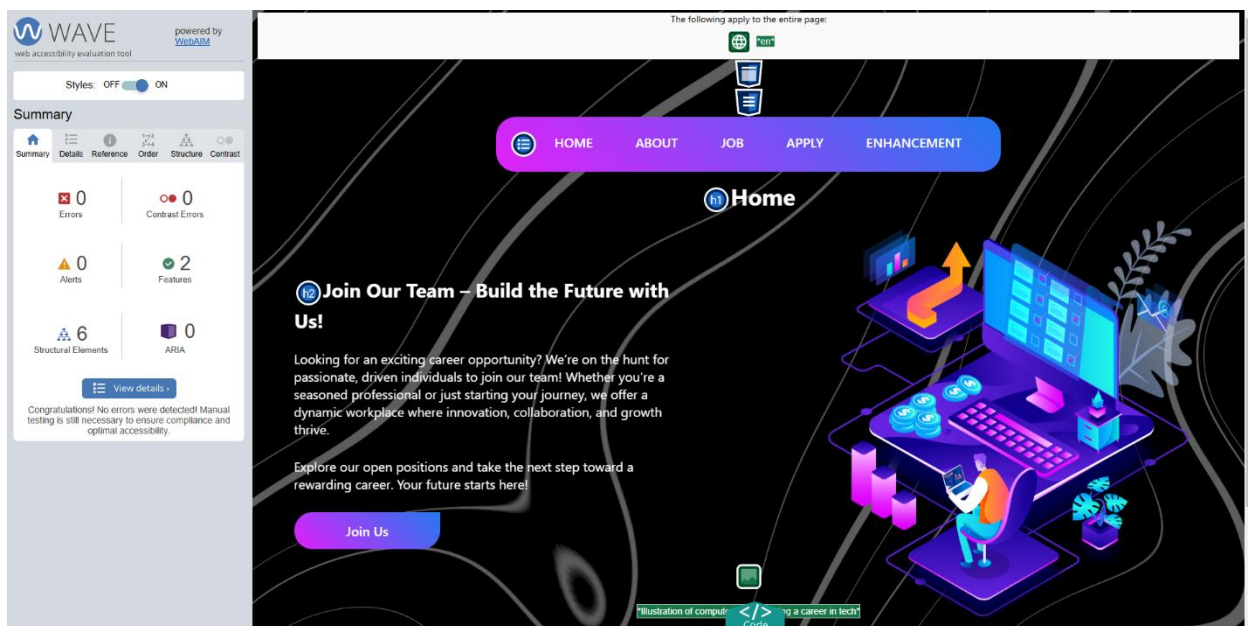
This is an example of how we design our website, The font is simple and quite big. Not only that but the background can differentiate from the text quite easily.
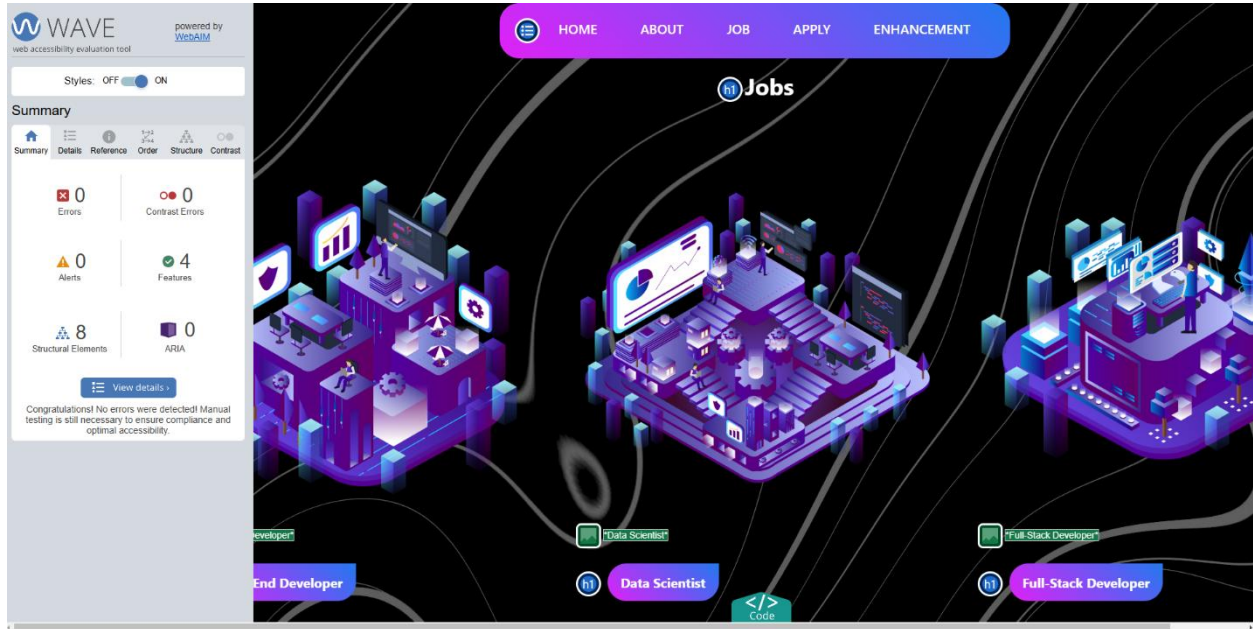
One of the other examples is that we use quite large icons to explicit each position. Not only that but the color of the icon is quite colorful and easy to see.

### c) Screenshots of WAVE or other accessibility checkers

**1)**

**2)**



## III/Website content

There are several web pages included on the website, each serving different purposes.

### Homepage (index.html)

- Purpose: It is the first page of the website that provides an overview of how the website is designed and what our site is about. Our homepage is designed to contain a suitable heading, a brief description, and a company-related graphic to improve our company's identification. Additionally, there is a navigation menu on top of the homepage that can help to locate the searchers to other pages through hyperlink.
- Technical details: since this is just an introduction page, it mainly contains texts and related images to best describe our page to the candidates. Therefore, we use <h2> for heading and <img> tag for the background graphic. Besides, to improve the user experience, we also create a navigation bar located on top of the page that can help locate the searchers to other pages through the hyperlink.

### Position description page (jobs.html)

- Purpose: the company's position description page serves as a structured and visually engaging platform to showcase job opportunities for potential applicants. The page highlights three positions – Back End Developer, Data Scientist and Full-Stack Developer – each represents with a futuristic, isometric illustrations that enhance the user experience.
- Technical details: As for the main job page, the website only contains 3 job roles structured using a grid layout. By using lazy loading, the images are rendered more efficient. Under each picture are a button that will use <a href> to hyperlink over a job description page for a specific position. By doing this, the amount of content and information for each position can be comfortably displayed.

**Job application page (apply.html)**

- Purpose: The page contains an application form that is easy to use and accessible. It is used to gather all the necessary personal data from potential employees, including name, gender, email address, and the abilities they possess. The candidates must complete a form with all the questions in the proper manner. When candidates click the "Apply" button, a form can gather their information and transmit it to the server for storage.
- Technical details: To create a functional form, the <form> element is essential, along with attributes like **method** and **action**, which determine how the data is sent. The <label> tag helps define each question, making it clear for users. Different <input> types—such as **text, date, and checkbox**—are used to collect various types of information. To ensure all required fields are filled, the **required** attribute is used, while **pattern attributes** help guide users to enter information in the correct format. **Placeholders** provide hints on what to enter in each field, making the form more user-friendly. Finally, buttons are included for submitting or resetting the form, ensuring a smooth experience for users.
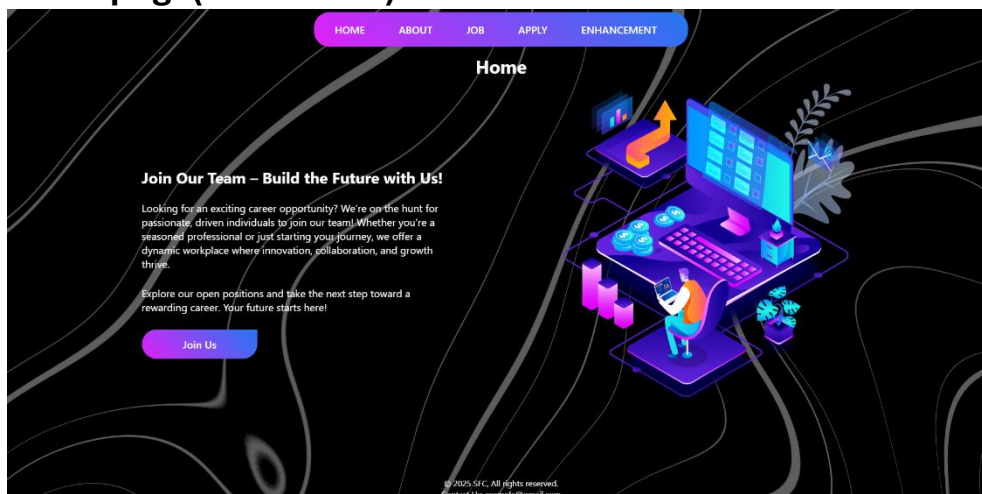
## About group page (about.html)

- Purpose: This page contains essential information about our team, including each member's name, id and timetable, a group image and most importantly, the team location. There is also a board with the team members' email address if the candidates want to contact.
- Technical details: each information is divided into groups; each group is written as a list using <ul> and <li>. With the contact section, <a> tags are used to hyperlink emails for easy communication. As for the timetable, <table> element is used to present work schedule. Finally, for the group photo and map, we used a <img> tag for the team and an embedded Google Maps <iframe> for location sharing.

## Enhancements (enhancements.html)

● Purpose: We use this page to list out all the enhancements that we apply for the website.

● Technical details: unordered list <ul> tag and its child <li> are used to demonstrate all the enhancements that we use.
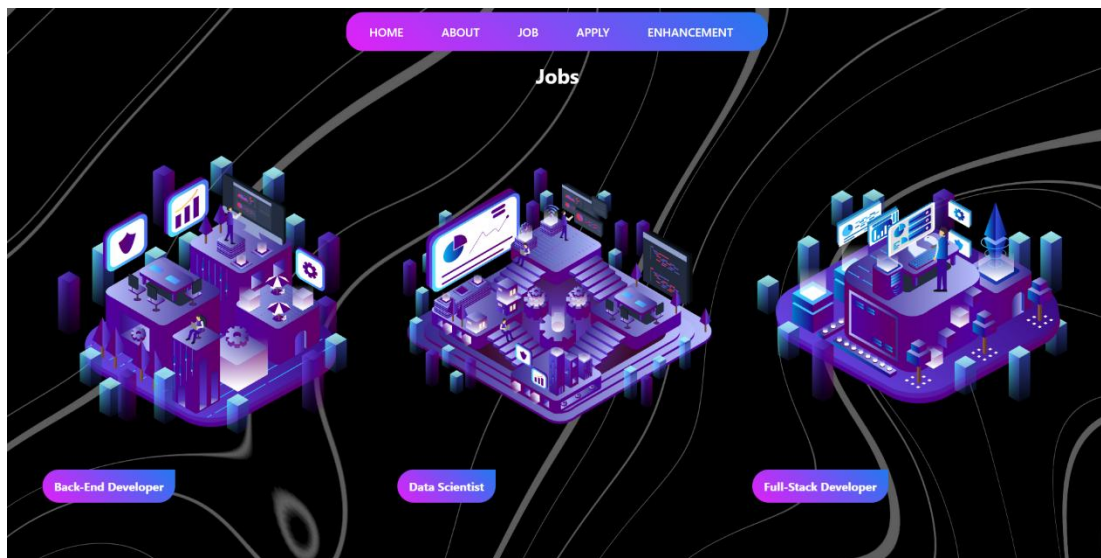
## IV/ Website style

## Homepage(index.html)

Since the index.html serves as the website's front page, its main purpose is to draw visitors. We decided to locate the footer and navigation bar in every webpage to enhance user experience. To provide the navbar a unique visual gradient color with a small animation of line appearing under whenever the mouse hover over a title.

In the footer, we want to keep it simple, so we make it smaller than the other elements, but still easy to see and read. Addition to that, we use padding and margin to make it stay in the center and help the content in the page be placed at the middle of the page.
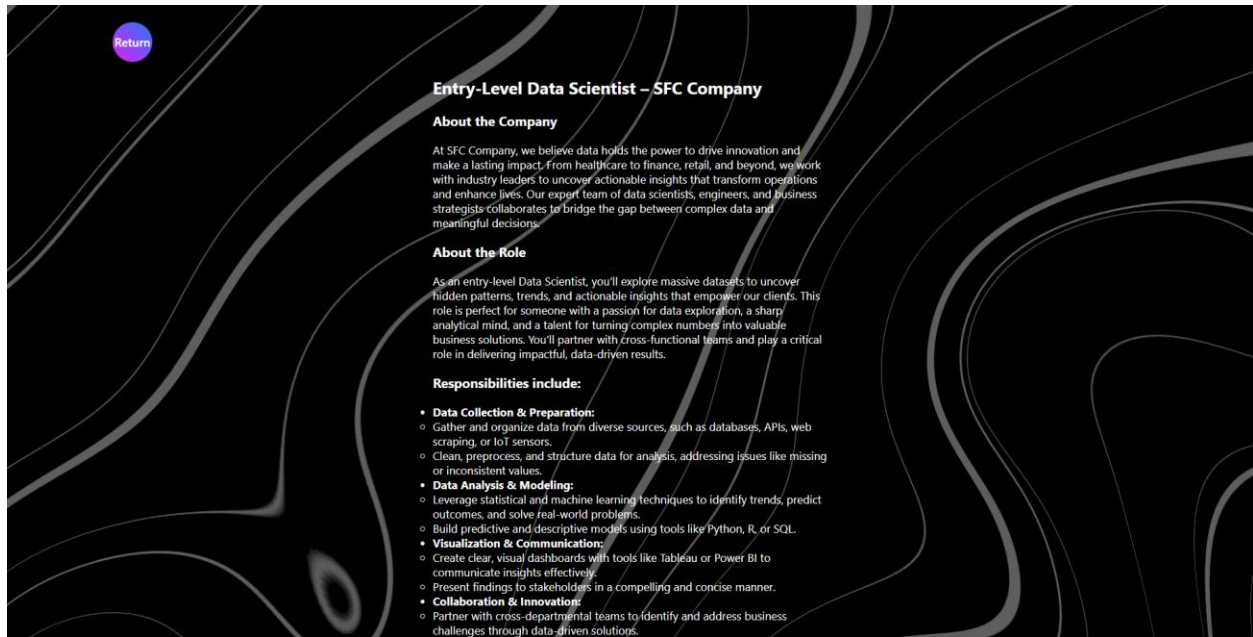
On the index page, the page will only contain our slogan and background graphics are given a flex container via the display property, allowing its children to be flex items and allowing for flexible positioning. To improve our page visual impact through the image, our background graphic is styled with several properties like width, margins. Finally, each element in the page has a class of "anim" which will allow it to have an animation of appearing from the bottom up which make it more seamless.

**Position description page**



Similarly, the color and style of this webpage is also the same as the index page by using similar properties. Each job description is displayed in the box in horizontal direction by using display: flex. Additionally, each button will

forward users to a more detailed job description, and they can go back by clicking the return button. Other necessary properties such as margin, text-align, etc. are used to justify the elements properly. This is an example of three positions:



The background color

The background color of the job page is set to black, suitable padding and margins have been added, and the content is centered. For a more visual appealing look, each graphic has a gradient color to make it more eye-catching.

Proper position, appearance, and transition effects are provided for the major contents. When the mouse is over the box, a small animation will indicate that it is hovered by rounding the top-right box corner.

**About group page**

**Our Group: SFC**

Welcome to the official page of SFC. We are a dedicated team working together to achieve our goals and deliver outstanding results.

**Our Tutor**

Dr. Vinh Trung is our mentor and guide, providing us with invaluable knowledge and support throughout our journey.

**Members and Contributions**

Vo Cong Minh - 104505729 - 100% - finding, summarizing information of the group members, and supervising for CSS file.
Le Ngoc Trieu Duong - 105709988 - 100% - responsible for designing the CSS
Truong Minh Tinh - 105509269 - 100% - finding jobs information, structuring the HTML file and seek out for enhancements.
Hoang Don Xuan Vinh - 105545302 - 100% - making the website format, homepage, adding CSS features.

**Contact Us:**

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**Timetable**

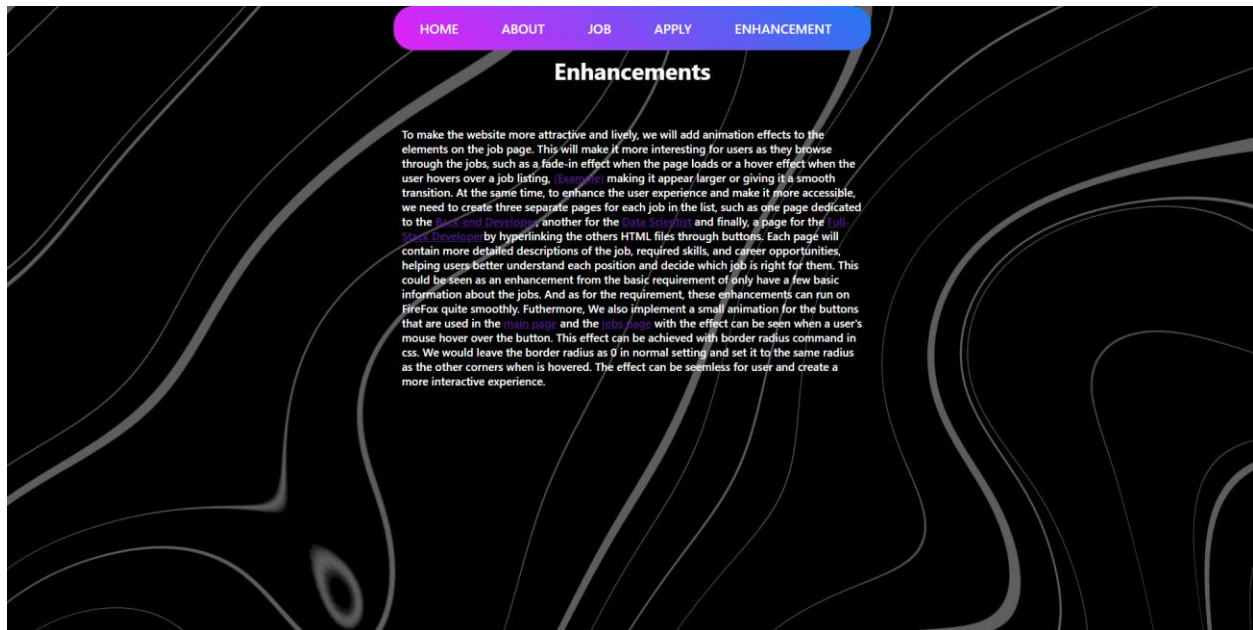| Time slot | Xuan Vinh | Minh Tinh | Cong Minh | Trieu Duong |
|---|---|---|---|---|
| 7:00 - 7:45 PM | Doing HTML structure | Designing CSS for the job description page | Designing HTML for about page | Designing CSS for the main page |
| 8:00 - 9:00 PM | Doing enhancements for the whole page | Designing CSS file for apply page | Designing HTML for apply page | Designing CSS for the enhancement page |

**Our Group Photo**

Our amazing team working together!

**Our Location**

Our group information is written in multiple unordered lists, and our image is located on the same line as the map by using display: flex, property. Centering all the information and applying borders for each box to make it more rounded.

**Enhancements**

Since this page contains mainly text, its layout just needs to be clear and organized by using margin property.

## V/ Key Features

This website is designed to advertise job openings within our company by providing potential candidates with comprehensive job descriptions. It utilizes multiple webpage levels to present information progressively. Initially, a general overview of available positions is displayed. If a candidate is interested in a particular role, they can navigate to a more detailed job description page. This structured approach ensures clarity by outlining key responsibilities, required qualifications, and essential skills for each position.

Additionally, the website includes a user-friendly and accessible application form for those who wish to apply. The collected candidate information is securely transmitted to the Mercury server for processing.

## VI/ My Contribution

For this project, my job is to create the index page, apply page and validate project file.

- Index page: This page was the first one I made, setting the tone and the overall color palette for the whole website, I tried to keep it as simple as possible but also adding small details in each element of the website such as animation or a minimal but elegant font. I also try to make it look a bit more futuristic with a gradient picture that has an inspiration from neon lights.
- Apply page: because this page is just a form application for the candidate to register, it is styled with only a few CSS properties as it just needs to be organized and clear for the users. However, this page required me to focus more on its functionality. Each question is designed with different requirements patterns, ensuring only the correct answer form from the candidate is accepted. For instance, the last name is limited to 20 alpha characters, or the date of birth must be written in the form of date/month/year.
- Validation: after our group finishes developing the website, my job is to check and validate our code by using a website validator to eliminate all the possible errors.

## VII/ Conclusion

In summary, our project aims to promote job opportunities in the field of artificial intelligence. The website's design, structure, and core functionalities are thoughtfully implemented to ensure seamless user experience. It effectively presents job details while maintaining a user-friendly and accessible interface. Each page's layout and formatting are carefully designed to enhance readability and visual appeal and further improvements will be made in the future.