Work shops

This semester, I participated in workshops designed to help me achieve various learning outcomes. These workshops provided valuable insights and skills that contributed to my overall educational development, ensuring I met the required competencies for my course.

LO:Development and vision Control

What I did:

I had the opportunity to create a Pokémon using only HTML and CSS. I chose to recreate Mew and implemented media queries to change the Pokémon's color when the screen was resized ***(see Figure 1).*** This exercise allowed me to practice responsive design techniques and enhance my CSS skills.

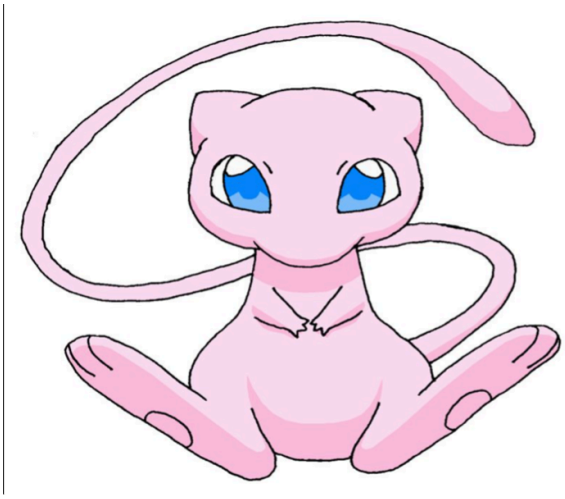
I developed a Tic-Tac-Toe game using JavaScript, HTML, and CSS. My tasks included making the winning player's boxes turn green and displaying a GIF that moves around the screen upon a win. Additionally, I implemented functionality to allow the game to be replayed ***(see Figure 2).*** This project helped me improve my programming skills and understand the dynamics of interactive web applications.

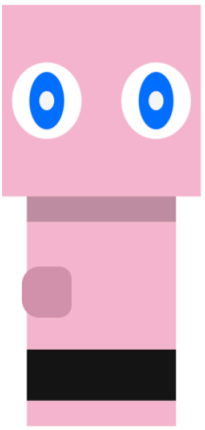
I created a mini Pokémon battle game using an API that fetches data from PokeAPI. This allowed me to retrieve information about various Pokémon, such as their names, images, and types. I added features to the game where Pokémon can fight, display the attacks used, gain points, and level up. As they level up, they can also evolve to their next stage***(See figure 3)***. This project enhanced my skills in API integration and game development, making the gameplay experience engaging and dynamic.

I set up an HTTP server on my own laptop and explored augmented reality (AR) using Node.js and AR.js. This project allowed me to delve into server management and AR technology, expanding my technical skills and understanding of how to create interactive and immersive web experiences. ***(see figure 4)***

I also learned about web accessibility and its importance in creating inclusive websites that are accessible to everyone, including people with disabilities. As part of my assignment, I used the WAVE tool to analyze a website of my choice and assess its level of web accessibility. This exercise helped me understand the critical aspects of accessible web design and the necessary steps to ensure a website meets accessibility standards. ***(see figure 4)***

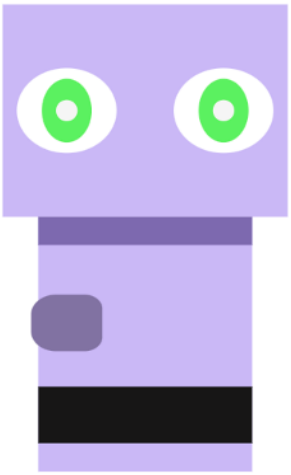
Figure 1: Pokemon mew





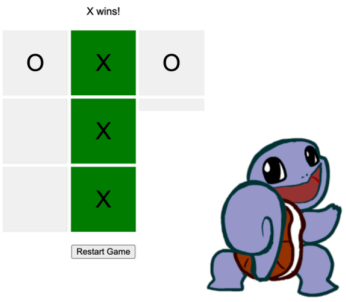
I attempted to recreate a Pokémon character, as shown on the left, using only HTML and CSS. On the right, you can see my recreation of the Pokémon.

```css
@media  screen and (max-width: 1000px) {

    .head {

        background-color: #cab8f7;

    }

    .pupils {

        background-color: #5bf160;

    }

    .body{

        background-color:  #cab8f7;
    }
    .shadow {

        background-color:  #7d69af;
    }


    .arm1{

        background-color:  #8173a2;
    }

}
```



Here you can see the media query I used to make the Pokémon change color when you resize the screen.

Figure 2: Tic-Tac-Toe Game

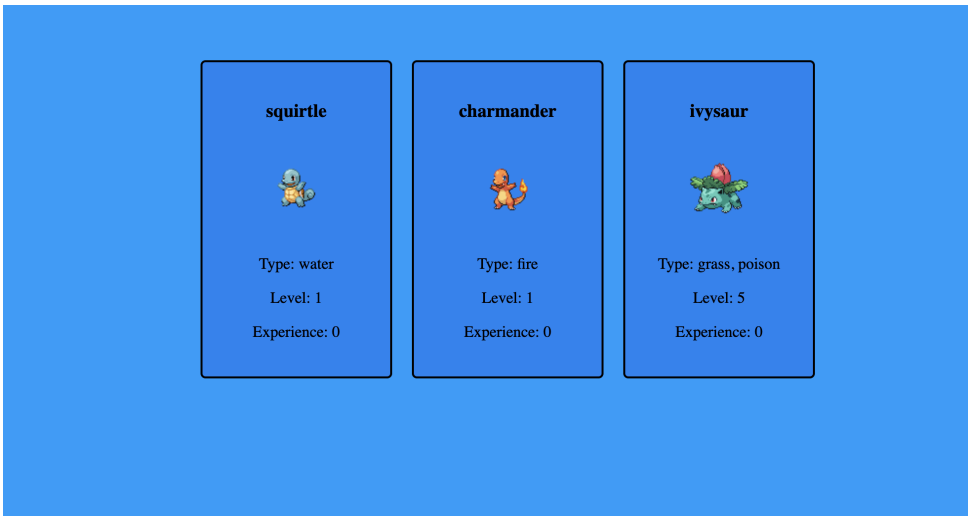



```javascript
  return winConditions.some(condition => {
      if (condition.every(index => cells[index].textContent.trim() === player)) {
          condition.forEach(index => {
              cells[index].style.backgroundColor = 'green'; // Apply green background
          });
          return true;
      }
      return false;
  });
}
function restartGame() {
  cells.forEach(cell => {
      cell.textContent = '';
      cell.style.backgroundColor = '';  // Reset background color
  });
  currentPlayer = 'X';
  statusText.textContent = "Player X's turn";
  document.getElementById('winGif').style.display = 'none';  // Hide the GIF
  document.getElementById('winGif').style.animation = 'none';  // Stop the animation
  cells.forEach(cell => cell.addEventListener('click', handleClick));  // Re-add event listeners
}
```

Here you can see some of the code from the Tic-Tac-Toe game. This code sets the background of the winning player's cells to green. It also includes a restart game function, which clears the cells of colors and removes the 'X' and 'O' markers, allowing the game to be played again from the start.

Code pen: https://codepen.io/Brayan-Garzon/pen/GRaowyw

Figure 3: pokemon Battle

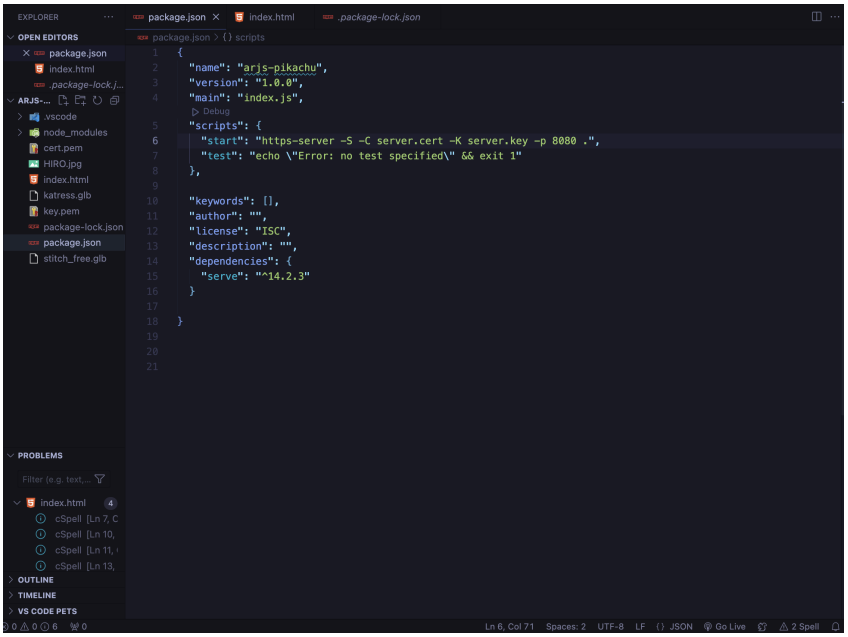



```
function checkEvolution(pokemon) {
    if (pokemon.evolutions.length > 0 && pokemon.level >= 5) {  // Example evolution level
        const nextEvolution = pokemon.evolutions.shift();  // Get the next evolution
        fetch(`https://pokeapi.co/api/v2/pokemon/${nextEvolution}`)
        .then(response => response.json())
        .then(evolvedData => {
            // Update the evolved Pokémon data
            evolvedData.level = pokemon.level;
            evolvedData.experience = pokemon.experience;
            evolvedData.experienceThreshold = getExperienceThresholdForEvolutionStage(pokemon.level);
            evolvedData.evolutions = pokemon.evolutions;
            // Create and display the next evolution
            createPokemonElement(evolvedData);
            // Remove the pre-evolution Pokémon from the display
            removePokemonElement(pokemon.name);
            // Update the existing Pokémon data
            Object.assign(pokemon, evolvedData);
            alert(`${pokemon.name} has evolved!`);
            updatePokemonDisplay(pokemon);
        });
    }
}

function adjustExperienceThreshold(pokemon) {
    // Example thresholds based on evolution stage
    if (pokemon.name.includes('ivysaur') || pokemon.name.includes('charmeleon') || pokemon.name.includes('wartortle')) {
        pokemon.experienceThreshold = 200;
    } else if (pokemon.name.includes('venusaur') || pokemon.name.includes('charizard') || pokemon.name.includes('blastoise')) {
        pokemon.experienceThreshold = 300;
    } else {
        pokemon.experienceThreshold = 100;  // Default for starter Pokémon
    }
}
```

Here you can see the code for the evolution feature in my mini Pokémon battle game. This code handles the process of a Pokémon evolving to its next stage when it levels up.

Code Pen: https://codepen.io/Brayan-Garzon/pen/abrdQyW

Figure 4: HTTP Server & AR


EXPLORER
OPEN EDITORS
package.json
index.html
.package-lock.j...
ARJS-...
.vscode
node_modules
cert.pem
HIRO.jpg
index.html
katress.glb
key.pem
package-lock.json
package.json
stitch_free.glb
PROBLEMS
Filter (e.g. text,...
index.html 4
cSpell [Ln 7, C
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cSpell [Ln 11,
cSpell [Ln 13,
OUTLINE
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VS CODE PETS
package.json index.html .package-lock.json
package.json > {} scripts
{
"name": "arjs-pikachu",
"version": "1.0.0",
"main": "index.js",
Debug
"scripts": {
"start": "https-server -S -C server.cert -K server.key -p 8080 .",
"test": "echo \"Error: no test specified\" && exit 1"
},
"keywords": [],
"author": "",
"license": "ISC",
"description": "",
"dependencies": {
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}
}
Ln 6, Col 71 Spaces: 2 UTF-8 LF {} JSON Go Live 2 Spell

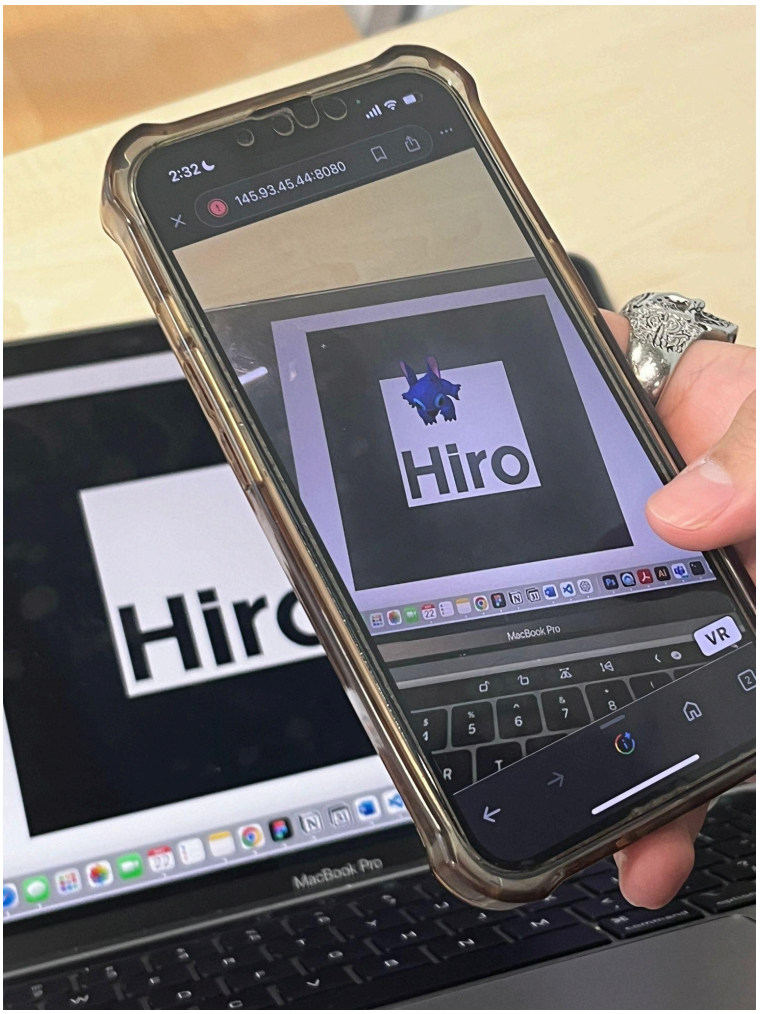
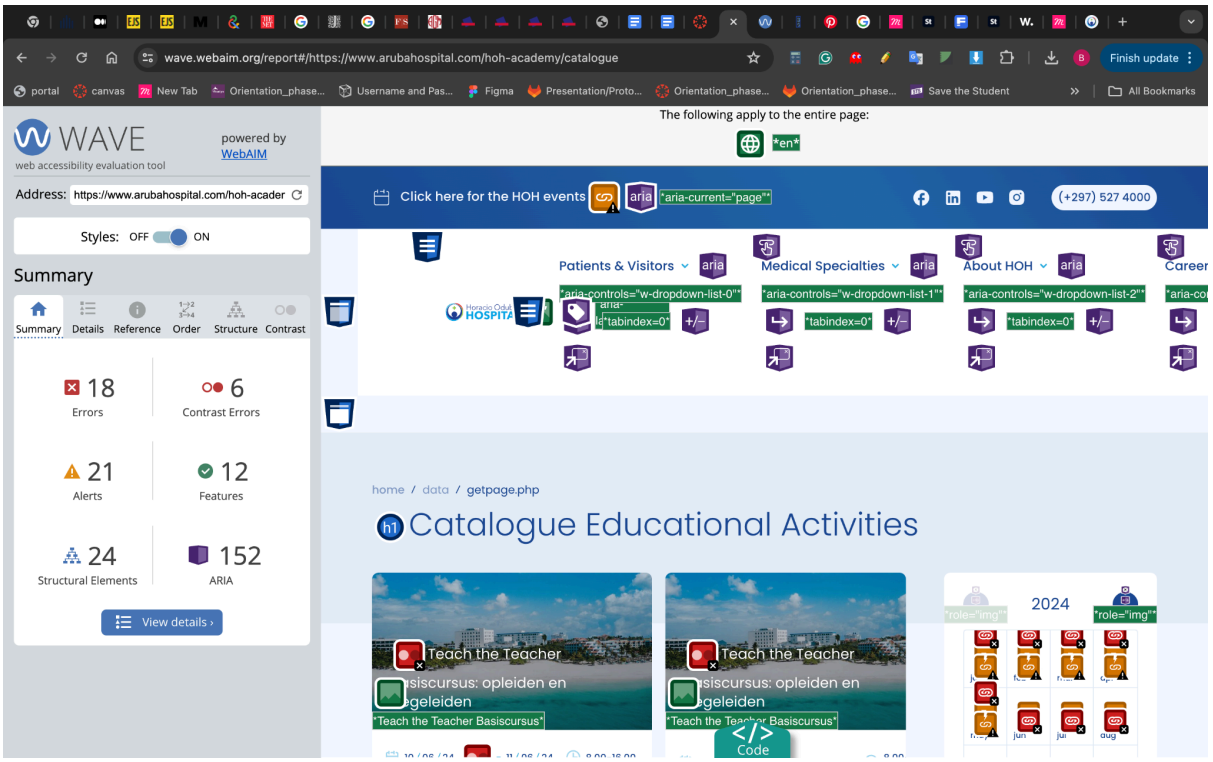

2:32
145.93.45.44:8080
Hiro
MacBook Pro
VR

Figure 5: web accessibility



Here is the website I tested using the WAVE tool. As you can see, there are 18 errors that need to be addressed to improve its web accessibility. This analysis highlighted the importance of identifying and fixing accessibility issues to ensure that the website is usable by everyone, including individuals with disabilities

What i learned:

Using Media Queries for Responsive Design: I learned how to use media queries to make elements responsive, enhancing the adaptability and user experience of web designs.

JavaScript with Tic-Tac-Toe Game: I gained practical JavaScript skills through developing a Tic-Tac-Toe game. I managed to add several features, including making the winning player's boxes turn green, displaying a moving GIF upon a win, and enabling game replay functionality.

Understanding and Using APIs: I learned what APIs are and how to use them. Creating a mini Pokémon battle game with data from PokeAPI helped me grasp how to integrate APIs to fetch and utilize dynamic data in applications.
Exploring Virtual Reality (VR) with JavaScript Libraries: I discovered that VR can be achieved using JavaScript libraries, and I learned how to set up a local server on my laptop to facilitate this. This expanded my knowledge of interactive and immersive web technologies.
Web Accessibility: I learned about the importance of web accessibility, understanding how to create inclusive websites accessible to everyone, including people with disabilities. Using the WAVE tool to analyze a website helped me identify and address accessibility issues.

How I think it went:

I believe the overall experience went well. With every single assignment, I learned something valuable for my studies and gained knowledge in areas I was previously unfamiliar with. These experiences not only enhanced my technical skills but also sparked a deeper interest in pursuing a career in development. Each task contributed to my growth and solidified my passion for the development career path.

LO: Interative design

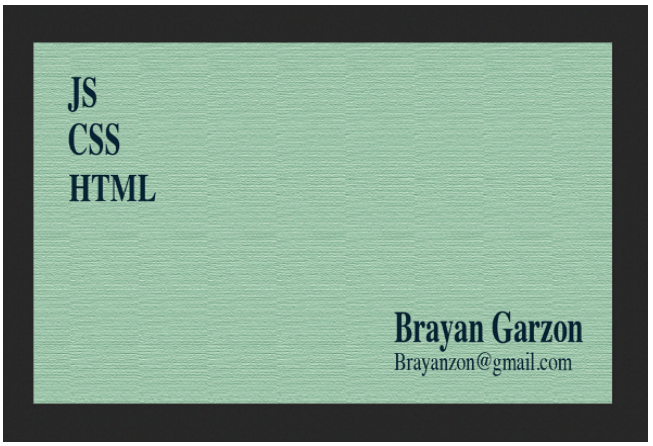
What I did:

In the first week of semester 2, I explored photography by creating both professional and creative portraits ***(see Figure 6)***. For this assignment, I used Photoshop to edit and enhance my images, improving their overall quality and appeal.

Additionally, I designed a business card using Illustrator ***(see Figure 7)***. This task allowed me to apply graphic design principles and develop my skills in creating professional marketing materials.

Figure 6: creative portrait

Figure 7: Business card



What i learned:

I learned how to use Photoshop and Illustrator. Before this semester, I had never used either of these software programs. This experience provided me with valuable foundational skills and opened up new creative possibilities

How I think it went:

I believe it went well. I learned how to use Photoshop and Illustrator, gaining foundational skills in both programs. This experience was valuable and has significantly expanded my creative capabilities.r

LO: Professional Standards

What I did:

I attended a workshop on web accessibility, where I learned about the importance of creating inclusive websites that are accessible to everyone, including people with disabilities. As part of my assignment, I used the WAVE tool to analyze a website of my choice and assess its level of web accessibility. After identifying the key issues that needed to be addressed, I created an action plan to fix these problems and improve the website's usability for all users. ***(see figure 8)***

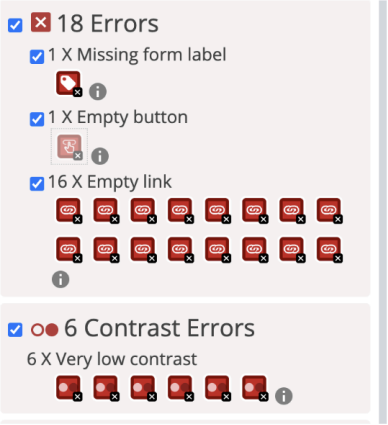
Figure 8: action plan

Action plan:

To fix the 18 important errors, I will
Add the label to the missing label.

I will fix the button for it to actually have a content to navegate to when clicked.

And to fix the other 16 errors i will add a page to the empty link or if the link is not of importance i will remove them



What i learned:

I learned about the importance of web accessibility and how to create inclusive websites accessible to everyone, including people with disabilities. Using the WAVE tool to analyze a website helped me identify and address accessibility issues. This process enabled me to develop an action plan to fix these problems, ensuring a better user experience for all.

How I think it went:

I believe it went well. I successfully analyzed the problems of the website and created an action plan to address these issues. I am confident that implementing these solutions will significantly improve the website's accessibility and overall user experience.

LO:Personal Leadership

What I did:

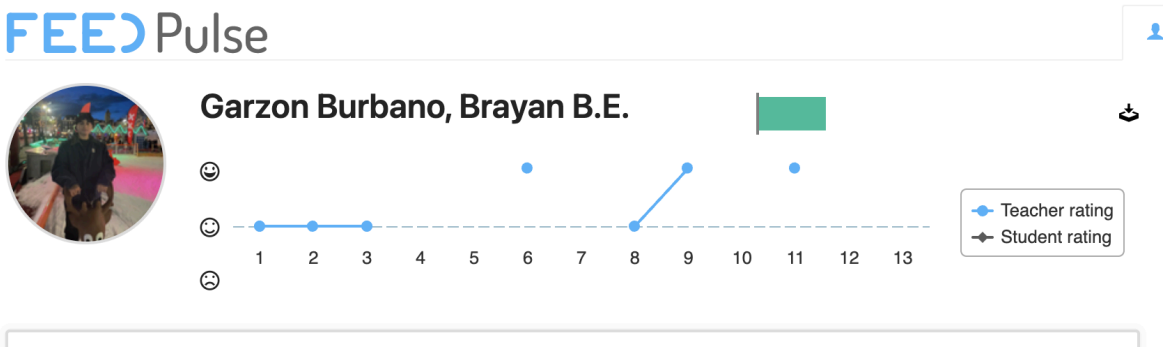
This semester I actively seeked feedback on my designs and projects ***(see Figure 8).*** In addition, I have been keeping up with design trends by watching YouTube videos and following individuals on social media who post content related to media design. This continuous learning approach helps me stay updated with the latest developments in my field.

I participated in a workshop that involved a unique assignment. I was asked to write down what I believed my core values were and then seek feedback from my classmates on what they thought my core values were. After gathering their input, I identified the three values that were mentioned most frequently: ***creative,honest and stylish***. This exercise was enlightening and helped me gain a clearer understanding of my personal values.

I also completed a personality test from 16Personalities as part of another assignment. This test provided insights into my personality traits, which I then compared with those of other people in my group ***(see Figure 10)***. This comparison allowed me to better understand my strengths and areas for improvement in a group setting.

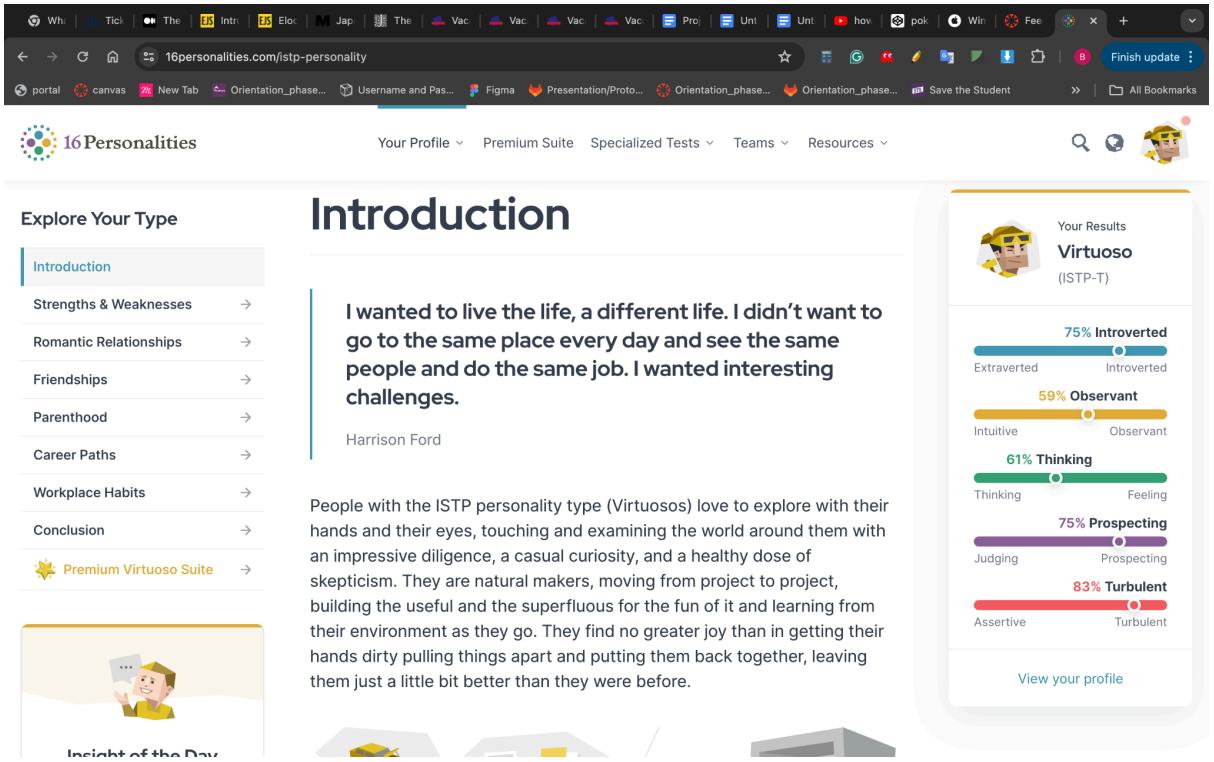
Outside of school, I am dedicated to furthering my knowledge in development. I am currently taking free online courses on platforms like Udemy, focusing on front-end and full-stack development. Additionally To complement my learning, I try to attend job fairs and career events related to my studies. These activities provide valuable opportunities to network and learn more about potential career paths. ***(see Figure 11)***.

Figure 9: feedpuls



This semester, I was consistently seeking feedback to improve my work. In these pictures, you can see the numerous feedback pulses I received. Actively asking for and incorporating feedback played a crucial role in my learning process, helping me refine my skills and produce higher-quality work.

Figure 10: 16 personality test



According to the 16 Personality Test, my personality type is ISTP (Virtuoso). This personality type is characterized by a hands-on

approach, a love for exploring how things work, and a knack for problem-solving.

- **Diligent and Observant** – People with the ISTP personality type (Virtuosos) are usually up to their elbows in some project or another. As hands-on individuals, they love readily engaging with their environment and transforming their observations into practical solutions.
- **Handy and Resourceful** – This personality type is very imaginative when it comes to practical things, mechanics, crafts, and skills. Novel ideas come easily to ISTPs, and they love using their hands to put them into action.
- **Spontaneous** – They are generally able to go with the flow and think on their feet. This flexibility comes with some unpredictability, but ISTPs are able to store their spontaneity for a rainy day, releasing their energy just when it's needed most.
- **Direct and Authentic** – ISTPs value straightforward and honest communication. They speak their mind without sugarcoating, reflecting their authenticity. This directness often fosters clarity in their relationships and helps them advocate for their wants and needs.
- **Independent** – Very self-reliant individuals, ISTPs thrive on regularly undertaking tasks alone, which helps them foster their creativity along with strong problem-solving abilities.
- **Grounded** – ISTPs have the uncanny ability to stay rooted in the present moment. With a keen focus on what's happening now, this personality type is less likely to get swept up in hypothetical future scenarios or past regrets.

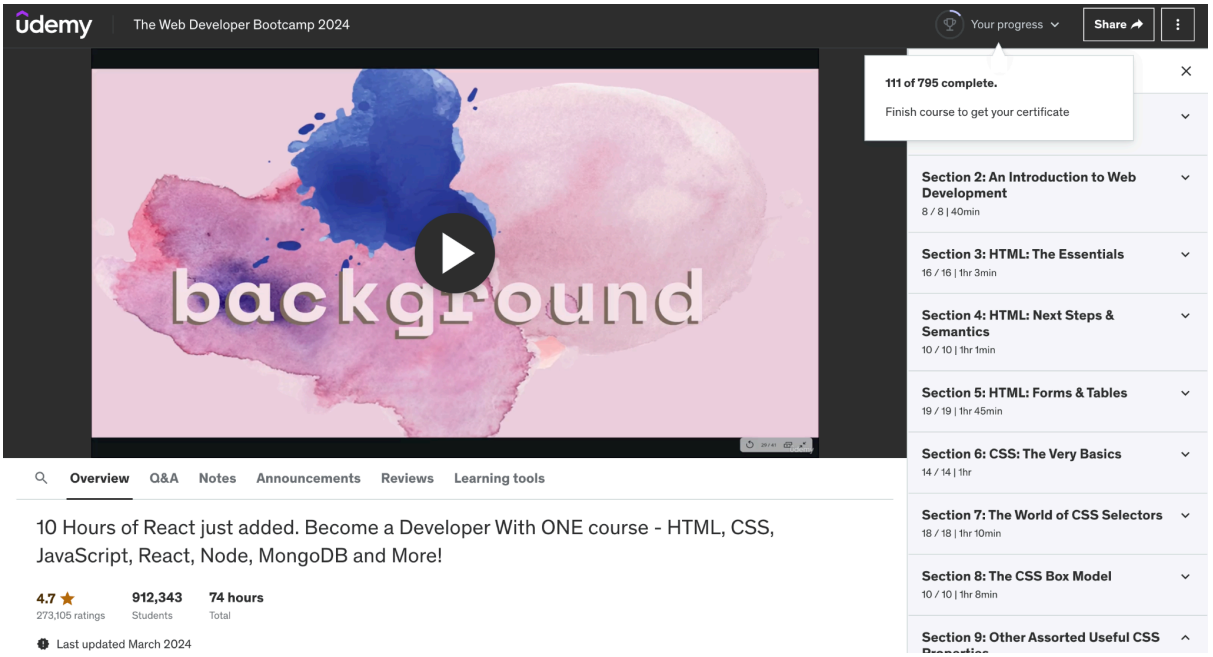
nesses

These are my strengths according to my personality type.

- **Unapologetic** – As easily as ISTPs go with the flow, people with this personality type can also ignore it entirely and move in another direction with little consideration for others' preferences. If someone tries to propose a different direction, ISTPs can become quite blunt in their irritation.
- **Insensitive** – ISTPs rely on logic, and even when they try to meet others halfway with empathy and emotional sensitivity, it rarely seems to come out quite right, if anything is even said at all.
- **Private and Reserved** – This personality type is notoriously difficult to get to know. They keep their personal matters to themselves and often just prefer silence to small talk.
- **Easily Bored** – ISTPs enjoy novelty, which makes them excellent tinkerers, but they are much less reliable when it comes to focusing on things as novelty wanes. Once something is understood, they tend to simply move on to something new and more interesting.
- **Independent** – While also listed as a strength, ISTP personalities' independence can be a challenge in their social relationships, including in romance. Having someone else's schedule – especially a social calendar – imposed on them is unlikely to sit well for long. Their tolerance can be quite low for having others take their time away from what they'd prefer to be doing.
- **Overly Skeptical** – ISTPs' generally skeptical outlook can help them avoid unfounded assumptions, but unchecked skepticism may lead them to dismiss more subjective truths or unquantifiable aspects of the human experience. It can also lead to missed opportunities – they may not take risks or explore unfamiliar concepts due to a lack of definitive proof. Similarly, excessive skepticism may

These are my weaknesses according to my personality type.

Figure 11: outside of school



In my free time, I am participating in a web developer bootcamp.

What i learned:

Asking for feedback is crucial. It has provided me with new ideas and perspectives I hadn't considered and has helped me ensure that I'm on the right track and fulfilling the intended objectives. Through this process, I learned what might be my core values according to my classmates: creativity, honesty, and 'stylishness.'

Taking a personality test has been enlightening. It has helped me understand my strengths and weaknesses, which is crucial information for future group projects. Knowing these aspects of myself allows me to contribute more effectively and focus on areas that need improvement.

Furthermore, I have been exploring various career paths that align with my studies. This process of discovery has been both exciting and overwhelming, as I am still uncertain about the exact direction I want to pursue. However, this exploration is helping me narrow down my options and find a path that truly resonates with my interests and skills.

How I think it went:

I believe it went well. Throughout this period, I have gained valuable knowledge about my study path and potential career opportunities. This experience has provided me with clearer insights into the direction I want to pursue, helping me make more informed decisions about my future. Additionally, the skills and understanding I've developed have increased my confidence in navigating my career journey.Recognizing my strengths and weaknesses allows me to leverage my practical problem-solving skills and adaptability, making me more effective in my studies and future career. This self-awareness has been instrumental in guiding my personal and professional growth.