**Course**: Business Intelligence and Data Analytics

**Module:** Web and Multimedia Development CSE105

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**Website objective and purpose.**

The objective of this personal profile website is to present a comprehensive and appealing overview of myself. This aims to showcase my (Bixente’s) skills, achievements, and contact information while providing engaging user experience. The website serves as a digital portfolio that reflects my expertise as a web developer, passion for creativity, and aspirations. Furthermore, this platform allows people to easily connect with me (Bixente, the creator of the profile) through contact details.

By incorporating interactive elements, the site is intended to leave a long-lasting impression on those who visit the site, as well as display me as a competent data analyst and web developer. Each page focuses on a specific aspect of the profile, as it displays the personal introduction (index), personal details (about), academic achievements (education), capabilities (skills), and ways to communicate (contact), with the style (CSS) being used consistently across the site.

**Technologies used (HTML, CSS, Bootstrap).**

The website employs a combination of essential web development technologies including:

* **HTML (Hypertext Markup Language):** Used to create the structure of the web pages. Content is divided into headers, navigation menus, sections and lists.
* **CSS (Cascading Styling Sheets):** This enhanced the visual design with custom styles for backgrounds, fonts, and hover effects. The elements like box shadows and gradients were used to improve aesthetics and user engagement.
* **Bootstrap:** I used this for responsive design and predesigned components such as the navbar, and buttons. This was done to aid in maintaining consistency by styling across various screen sizes, for the purpose of ensuring mobile friendliness.

These technologies create a sleek modern, and interactive user interface.

**Challenges faced and how they were resolved.**

1. **Organizing content across multiple pages**: To create a seamless structure for different sections such as About, Education and Skills was a challenge. I had addressed this issue was by categorizing content into logical pages and ensuring consistent navigation through the Bootstrap navbar.
2. **Maintaining styling consistency:** Making sure that uniform styles cross multiple pages using styles.css which required a systematic approach. By sharing the CSS file with reusable classes, it helped maintain consistency while reducing duplicates in code.
3. **Visual Appeal and Interactivity:** By adding some animations and hover effects without overloading the design posed a challenge. The balancing using subtle transitions and keyframes in Cascading Style Sheets(CSS) to add to the interface whilst keeping it professional.

**Future improvements.**

* Enhanced User Interactivity: Include an interactive contact form on the contact page with integrated from validation.
* Dynamic Content: The plan is to incorporate animations triggered by scrolling or hovering and add an engaging experience that does not affect loading times.
* Performance Optimization: To further optimize image sizes further and reduce CSS to improve loading times.
* Accessibility Enhancements: Improving usability for visitors with disabilities by adding alt texts.
* Portfolio Section: What I plan on implementing is project/portfolio page as way to showcase completed work with descriptions, images, and links.