**ELEC 3C – Technical Elective III**

A.Y. 2024-2025

Activity 1

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**Course/Year/Section:** BSCpE – 4B

**TASK: Create a responsive navigation bar with a dropdown menu using HTML, CSS and JavaScript.**

**Requirements:**

1. The navigation bar should have a maximum width of 800px and be centered on the page.
2. The navigation bar should have the following items: Home, About, Services, and Contact.
3. When the user hovers over the Services item, a dropdown menu should appear with the following sub-items: Web Development, Mobile App Development, and UI/UX Design,
4. The dropdown menu should be hidden by default and should appear only when the user hovers over the Services item.
5. The navigation bar should be responsive and work well on desktop, tablet, and mobile devices.

**Constraints:**

1. You can use any HTML, CSS and JavaScript libraries or frameworks you like, but you must provide a working solution.
2. You cannot use any CSS frameworks like Bootstrap or Tailwind CSS
3. You must provide a clear and concise explanation of your solution.

**Deliverables:**

1. A working HTML file with the navigation bar and dropdown menu.
2. A CSS file with the styles for the navigation bar and dropdown menu.
3. A JavaScript file with the code to show and hide the dropdown menu.
4. A brief explanation of your solution, including any design decisions you made and how you implemented the responsive design.

**Brief Explanation of the Activity:**

The following activity of mine consists of the HTML file, CSS file, and JavaScript file in order to create a page for the navigation bar and dropdown menu. In this working activity of mine, the HTML file is created in order to add important contents needed in creating the activity. This included the logo, the name of the web page, the navigation items such as Home, About, Services, and Contact, and the sub-items to be found under the Service item: Web Development, Mobile App Development, and UI/UX Design.

As for my CSS file, this is where my overall layout is encoded. Fonts such as Libre Baskerville and Cinzel are used as my font styles for the navigation items and sub-items, and the web page name, respectively. Also, I had added animations, transitions, and the cursor’s design for a smoother and favorable view of the page. As an avid fan of the dark academia aesthetic, I incorporated them into this page while also following the requirements given above.

Lastly, the JavaScript (or JS) code was used for dictating the items’ functionality. For instance, this is where the function for showing and hiding the dropdown menu is seen. It also includes other animations that are necessary for the web page.

Both the CSS and JS files are incorporated into the HTML code, as well as the fonts used in order for the web page to work properly.