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ASSIGNMENT NO 1

(WEB ENGINEERING)

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DEGREE PROGRAM: BS (SE) (BATCH 2024).

SECTION: G.

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In this assignment, I have selected **Kawsar Design** as a reference. Kawsar Design serves as a great source of inspiration due to its clean and minimalistic design approach, which balances functionality with aesthetics. The website focuses on ease of navigation, effective use of whitespace, and a responsive layout that ensures compatibility across all device sizes. These design principles have been incorporated into my project to enhance user experience, readability, and mobile friendliness.

**5.1 Design and Layout Choices:**

**1. Home Page (Navigation and Introduction Section)**

**Layout**: **Flexbox**

* **Justification**:
  + **Flexibility**: Flexbox allows for flexible arrangement of elements, which is perfect for ensuring that the navigation bar and hero section adapt to different screen sizes without breaking the layout.
  + **Alignment**: The navigation links and logo are horizontally aligned and spaced evenly across the screen, enhancing readability and providing a clean look.
  + **Mobile Friendliness**: Flexbox enables easy stacking of items (e.g., hamburger menu) for mobile, improving the overall mobile experience.

**2. Profile Page (Information Section)**

**Layout**: **Grid Layout**

* **Justification**:
  + **Content Organization**: A grid layout helps divide the profile information (e.g., personal details, images, and descriptions) into well-structured sections, making it easier for users to scan and absorb the information.
  + **Consistency**: The grid ensures consistent spacing and alignment, which enhances the professional appearance of the page.
  + **Responsiveness**: With CSS Grid, it's easy to rearrange elements based on the screen size, ensuring a smooth transition between desktop and mobile views.

**3. Gallery Section**

**Layout**: **Grid Layout**

* **Justification**:
  + **Visual Display**: A grid layout is ideal for displaying images or media content. It allows multiple images to be presented uniformly without the need for excessive scrolling.
  + **User Experience**: Users can easily browse through the images since they are neatly aligned in rows and columns, improving navigation and interactivity.
  + **Mobile Optimization**: The grid automatically adjusts the number of columns depending on the screen size, ensuring the gallery is mobile-friendly.

**4. Career Goals Section**

**Layout**: **Flexbox**

* **Justification**:
  + **Flow and Readability**: Flexbox allows the content (career goals, achievements, etc.) to be displayed in a linear flow, maintaining a balance between text and whitespace, which makes reading easier for users.
  + **Responsiveness**: Flexbox provides dynamic resizing, ensuring that text content adapts seamlessly to various screen sizes, maintaining readability without overloading mobile users.

**5. Projects Section**

**Layout**: **Flexbox**

* **Justification**:
  + **Vertical and Horizontal Alignment**: Flexbox allows for flexible alignment of project cards, making it easy to manage spacing between items and centering them for an aesthetically pleasing look.
  + **Mobile Friendliness**: With flexbox, project cards can stack vertically on mobile screens, making them easier to browse compared to a fixed grid on smaller devices.

**6. Skills Section**

**Layout**: **Grid Layout**

* **Justification**:
  + **Display of Skill Icons**: A grid layout provides a structured way to showcase different skills, such as icons with labels, making the page look organized and easy to navigate.
  + **Responsive Layout**: The grid automatically adjusts the number of items per row based on the screen width, providing an optimal viewing experience across devices.

**7. Contact Page**

**Layout**: **Flexbox**

* **Justification**:
  + **Form Alignment**: Flexbox simplifies the alignment of form fields, buttons, and other elements, ensuring a consistent layout that looks professional.
  + **User Experience**: Flexbox ensures that the form elements are aligned and spaced evenly, which improves the overall usability of the form, especially on mobile where field sizes and spacing are critical.
  + **Mobile Responsiveness**: The flex layout ensures the form adapts to different screen sizes, stacking fields for better usability on mobile.

**General Design Considerations:**

* **Mobile Friendliness**: All layouts (flexbox and grid) are chosen to ensure that content scales effectively for mobile devices. Flexbox and grid both allow for easy reorganization of elements without extensive media queries.
* **Readability**: Both layouts focus on maintaining clear spacing, alignment, and easy-to-read text, which enhances the overall readability and flow of content for users.
* **User Experience**: The combination of grid and flexbox ensures a seamless and responsive design across all pages, allowing users to easily navigate through the website, whether on desktop or mobile.