REPORT ON THE DESIGN AND DEVELOPMENT PROCESS

1.Design Choices and UX/UI Principles

- Simple and Clean Design: The layout adopts a minimalistic style, with a light background (#f4f4f4) for the body and a black (#333) for the header and footer. This color contrast enhances readability and directs user attention.
- Font Selection: The entire page was designed with Arial, a popular sans-serif font that is widely supported. This ensures crisp, contemporary typography that improves reading on a variety of devices.
- Navigation: With bold writing and enough space between links, the navigation bar is clear and easy to read. Links are left without underlining to maintain a clean style, and hover effects offer a subtly interactive visual indication.
- Adaptability: The layout of the website adjusts fluidly to various screen sizes thanks to the use of max-width for parts, which makes the site more user-friendly on various devices.

2. Front-End Development Process and Technologies Used

- HTML and CSS: CSS was used for styling, whereas HTML was used for content organization. For rapid updates, inline CSS was used; nevertheless, a separate stylesheet (style.css) makes sure that style changes in the future are controlled and consistent.
- Sectioning Elements: For the benefit of both users and search engines, semantic HTML elements such as , , and structure the material.
- Media: To improve the visual appeal, the image in the "home" section has a borderradius applied to it, creating the illusion of rounded corners.

3. Cross-Browser Compatibility, Accessibility, and Website Security

- Cross-Browser Compatibility: To ensure consistent rendering across platforms, the HTML and CSS are developed to be compatible with the majority of browsers.
 There was less chance of incompatibility because neither browser-specific code nor proprietary components were used.
- Accessibility: The campus image has alt text, which improves visibility for screen reader-dependent visually challenged people. The website is also accessible to a wider audience due to its proper contrast and uncomplicated structure.

Security: Clean HTML and CSS that are free of known vulnerabilities support
basic website security. To improve security going forward, more form section
development (such as input validation) should be put into place.

4. CMS Integration and Content Management

Although the current HTML does not showcase CMS integration, the website's structure is easily adaptable for a CMS like WordPress:

- **Custom Templates:** Each page (e.g., "Programs," "About Us," "Contact Us") can be converted into a WordPress template. The header and footer sections can be reused across different pages via CMS templates, while the main content can be dynamically updated through the WordPress admin panel.
- Content Management: Site admins will be able to update the "Campus Image," titles, and text from the WordPress dashboard without needing to modify the HTML code.

5. SEO Best Practices

- Meta Tags: The inclusion of meta tags like description and keywords helps search engines better understand the page content and improves the chances of appearing in relevant searches.
- Clean URLs: Links like "programs.html" and "contact.html" are descriptive, which is helpful for SEO and user navigation.
- Alt Text: Providing alt text for the campus image improves the accessibility and searchability of the website.

6. User Data and Form Implementation (Future Development)

While not implemented in this HTML example, the next steps include adding a contact form using Core PHP and MySQL. This form will:

- Capture User Data: Through fields like name, email, and message.
- **Store Data Securely:** Using a MySQL database, managed through PHPMyAdmin, ensuring all submissions are stored for future reference.

Conclusion

This landing page is designed and developed with clarity, simplicity, and ease of use in mind. With modern UX/UI principles and basic SEO best practices, the design is ready for CMS integration and scalable for future functionalities like form submission. The site ensures accessibility and cross-browser compatibility while setting the foundation for secure interactions in future developments.