**Personal Portfolio Website**

**Introduction**

Welcome to Mohsan's portfolio, which serves as evidence of his proficiency in and successes using Python. In addition to assisting, you with website navigation, this documentation offers insights into the underlying technology and ideas that make this digital display possible.

**Technologies Used**

* **HTML**

HTML (HyperText Markup Language), the common markup language for building web pages, serves as the foundation for the website's structure. The foundation is provided by HTML, which establishes the structure and content of every part. <div>, <h1>, <ul>, and <li> are some of the tags used to efficiently arrange and display the content.

* **CSS**

The website's visual styling is made possible with CSS (Cascading Style Sheets). It controls the overall aesthetics as well as the fonts, colors, and layout. The styling guidelines for different elements are contained in the style.css file, guaranteeing a unified and aesthetically pleasing design. For structures that are both responsive and well-organized, ideas like flexbox and grid layout are used.

* **Javascript**

JavaScript is a dynamic programming language that enhances a website's functionality and engagement. 'About' tab switching, side menu opening and closing, and form submission handling are all made possible by the JavaScript code found in the script.js file. It adds dynamic information and responsive elements to improve the user experience.

**Concepts and Features**

* **Smooth Scrolling and Parallax Effect**

A visually captivating experience is produced by the header's (#header) parallax effect, which moves the background image more slowly than the foreground items

The website has smooth scrolling, which improves the way sections segue into one another. The HTML element's scroll behaviour: smooth CSS property allows for the implementation of this feature. The menu scrolls smoothly, giving users a seamless experience as they go through it.

* **Responsive Design**

The portfolio's design allows it to smoothly adjust to various screen sizes and orientations. Using media queries in the CSS guarantees that the design and arrangement adapt to offer the best possible viewing experience on any device—desktop, tablet, or smartphone.

* **Font Awesome Icons**

The Font Awesome icon library is used throughout the website to incorporate eye-catching icons. Font Awesome icons that symbolize navigation and social networking help to create a contemporary and unified visual language.

* **Google Sheet Integration**

The contact form is set up to use JavaScript to submit data to a Google Sheets script. This interface makes it possible for a Google Sheets document and the website to communicate seamlessly, effectively collecting form submissions. After submitting a form successfully, users receive a success message (#msg).

**Navigation**

The portfolio website is easy to navigate and a pleasure to use. Clear and responsive navigation at the top of the page provides easy access to the different sections.

* Home: `#header`
* About: `#about`
* Services: `#services`
* Portfolio: `#portfolio`
* Contact: `#contact`

The design seamlessly adjusts to users with smaller screens, including a collapsible side menu that can be accessed via a hamburger icon located in the upper right corner.

**Home (header Section)**

The #header ID designates the visually arresting header of the website. Mohsan is presented in this section as a proficient Python Developer. An added dimension to the visual experience is provided by the parallax-enhanced background image. The name Mohsan and the slogan are shown prominently. When clicked, the logo in the navigation bar acts as a doorway to open or close the side menu.

**About Section**

The #about section goes into great detail regarding Mohsan's upbringing, training, and experiences. It balances information distribution and visual appeal with a clever two-column layout.

**Tabs**

Three tabs highlight Mohsan's diverse skill set:

* **Skills:** revealing details about his expertise in graphic design, front-end development, and Python programming.
* **Experience:** describing Mohsan's career path, including research posts and internships.
* **Education:** describing Mohsan's scholarly activities, including his ongoing Master of Computer Science program.

Users can quickly navigate between tabs to see all of Mohsan's expertise facets.

**Services Section**

The professional offers of Mohsan can be accessed through the #services section. Every service is tastefully packaged in a box with a title, a symbol, and a brief explanation. The "Learn more" link takes users to comprehensive details about each service.

* **Python Development:** showcasing Mohsan's aptitude for machine learning, deep learning, and Python.
* **Website Design:** describing Mohsan's skills in HTML, CSS, and JavaScript for traditional web development.
* **Graphic Designing:** showcasing Mohsan's creative abilities, such as his ability to use Adobe's creative tools and create logos and posters.

**Portfolio Section**

Mohsan's noteworthy projects are displayed in a gallery-style format under the #portfolio section. Every project entry includes an image, a title, a synopsis, and a GitHub link for additional research.

* **Travel List Generator:** A command-line application in Python designed to generate travel lists efficiently.
* **Task Management:** An efficient task management application written in Python CLI.
* **Handwritten Text Recognition:** An inventive idea that speaks handwritten text**.**

Upon selecting the GitHub link, users can explore the nuances of any project.

**Contact Section**

The #contact section acts as a conduit for dialogue. Contact information, such as an email address and phone number, is provided so that visitors can get in touch with Mohsan. Links to Mohsan's social media accounts also enable more communication.

* **Download CV:** The "Download CV" button allows users to obtain Mohsan's resume in case they're interested in his qualifications.

**Contact Form**

If users would want to message Mohsan directly, a form is located on the right side of the contact area. There are fields on this form for a name, email, and message. After the form is submitted, the data is automatically sent to a Google Sheets script, which guarantees effective communication. The successful submission is confirmed with a brief success message (#msg) at the bottom.

**Testing**

It is vital to do functions and component tests to guarantee the website's strong functioning. Thorough testing comprises verifying the design's responsiveness on various platforms, evaluating the operation of interactive components like tab switching and form submissions, and ensuring the smooth incorporation of external resources like Font Awesome icons. Extensive testing ensures that Mohsan's portfolio website is easy to use, has seamless navigation, and flawlessly implements dynamic elements.