**Developer Documentation for Demo Presentation Website**

**Overview**

This project involves creating a demo presentation website that simulates a fully functional website experience. The website is designed for showcasing a feature that allows users to reimagine room interiors using AI-generated images. The demo will consist of three main pages, each serving a unique purpose in the room selection and visualization process.

Please see here the figma designs as well as the protype and video.

<https://www.figma.com/file/WVHsaT1TnhQDBbXBRWKqlX/b2b-Presentation-AI-version?type=design&node-id=301%3A3&mode=design&t=HwLhgvBVekQMqXkE-1>

<https://www.figma.com/proto/WVHsaT1TnhQDBbXBRWKqlX/b2b-Presentation-AI-version?type=design&node-id=2906-237&t=6zSxbpD7ZNJ95EUg-1&scaling=min-zoom&page-id=301%3A3&starting-point-node-id=2906%3A237&show-proto-sidebar=1&mode=design>

**Required Skills**

* HTML: For structuring the web pages.
* CSS: To style the website, ensuring a visually appealing and responsive design.
* Bootstrap: Utilized for rapid, responsive design with minimal effort, leveraging its grid system and pre-designed components.
* JavaScript: For adding interactivity to the website, handling user inputs, and managing dynamic content changes without page reloads.

**Website Structure and Functionality**

**1. Select Room Page**

Objective

Allows users to choose a room for reimagining by displaying a list of available rooms fetched from storage (with future integration to a database).

Parameters

* Project Name
* Building
* Apartment Number
* Array/List of Rooms, each containing:
  + Link to Room Image
  + Room Name

Functionality

* Dynamically fetch and display room data from storage.
* Users can select a room and proceed to the "AI Imagine" page by clicking "Next."

**2. AI Imagine Page**

Objective

Enables users to reimagine a selected room by choosing a style from a carousel of thumbnails, then rendering a new image based on the selection.

Parameters

* Project Name
* Building
* Apartment Number
* Room Name
* Link to Room Image
* Array/List of Styles with Thumbnails

Functionality

* Present a carousel of style thumbnails for user selection.
* On selecting a style and clicking the "Render" button, display a pre-determined image that simulates the result of the AI reimagination process.
* Note: In the demo, the image is fetched locally as a placeholder for future API integration, which will generate and store the image in a database.

**3. Gallery Page**

Objective

Displays all AI-reimagined images, allowing users to browse and filter results by room.

Parameters

* Project Name
* Building
* Apartment Number
* Room Name

Functionality

* Showcase all generated images with options to filter by room.
* Provide a user-friendly interface for easy navigation and viewing of the reimagination results.

**Development Considerations**

* **Local Storage for Demo**: Initially, use local storage or mock data to simulate fetching room data and images. This approach facilitates easy transition to database integration in the future.
* **Responsive Design**: Utilize Bootstrap effectively to ensure the website is accessible and functional across different devices and screen sizes.
* **Interactive Elements**: Implement JavaScript to manage the dynamic aspects of the website, such as the carousel functionality, rendering button actions, and filtering capabilities in the gallery.

**Future Enhancements – for later development**

* **API Integration**: Replace local data fetching with real-time API calls to a backend service for fetching room details and submitting style choices for AI reimagination.
* **Database Storage**: Store user selections, generated images, and associated parameters in a database for persistence and analytics.