**Project Documentation: VisualiseVibe**

**Project Overview**

**VisualiseVibe** is a multimodal search engine website dedicated to enhancing user experience in the field of interior design. Utilizing HTML, CSS, JavaScript,python(flask) as a backend within Visual Studio Code, the site is composed of four interconnected pages that facilitate intuitive navigation and advanced functionalities. The project integrates with a backend model to provide dynamic and personalized content.

**Key Features and Pages**

1. **Homepage (Home Page)**:
   * **Introduction**: A welcoming interface for users.
   * **Primary Buttons**: main button, "Search", direct users to the respective functionalities.
2. **Navigation Bar**:
   * **Home**: Directs to the Home page.
   * **Search Engine**: Directs to the search functionality page.
   * **About**: Directs to the About page.
3. **Search Page**:
   * **Form**: Users can input a photo and text description and specify the number of images they want to see.
   * **Submit Button**: On clicking submit, the user is redirected to a results page.
4. **Display Results Page**:
   * **Image Slider**: Switch images chosen by the user in a slider format.
5. **About Us Page**:
   * **Team Members**: Introduces the team behind VisualiseVibe and their roles.
   * **Project Background**: Information about the project’s purpose and objectives.

**Technologies Used**

* **HTML**: Structures the content and layout of the web pages.
* **CSS**: Styles the website with a consistent black and golden-yellow theme for a modern and vibrant look.
* **JavaScript**: Adds interactivity and dynamic features, including form handling and image sliders.
* **Flask**: Manages the backend, handling routes, processing user inputs, and integrating machine learning models for dynamic content generation and search functionalities.
* **Visual Studio Code**: The chosen integrated development environment (IDE) for coding and managing the project.

**User Experience (UX) Focus**

The design of VisualiseVibe emphasizes ease of use and aesthetic appeal. Key UX features include:

* **Intuitive Navigation**: Clear and logical page transitions ensure users can easily find and utilize all site functionalities.
* **Responsive Design**: Ensures accessibility and a pleasant experience across various devices.
* **Interactive Elements**: Enhances engagement with interactive forms, image sliders, and dynamic content.

**Backend Integration**

The backend of VisualiseVibe is built using Flask, a lightweight WSGI web application framework in Python. It supports various functionalities including a search engine for images based on text and image inputs, as well as an image generation feature.

**Color Scheme**

* **Primary Colors**: Black and golden-yellow are used throughout the CSS for a sleek and vibrant appearance that aligns with the interior design theme.

**Page Details**

**Home Page**

* **Contents**: Introduction text, main buttons ("Search").

**Search Page**

**Method :** POST

**Description**: Handles the search functionality. Accepts an image file and text input, processes them, and returns the similar images based on combined image and text embeddings. Results are rendered on the results page (display.html).

* **Contents**:
  + **Form Elements**: File input for photo, text input for description, number input for image count.
  + **Submit Button**: Triggers search and redirects to the results page.

**Results Page**

* **Contents**:
  + **Image Slider**: Displays images in a carousel format.

**About Us Page**

* **Contents**: Team member profiles, roles, and project background information.