**JavaScript Image Editor**

## Introduction

This section provides a brief overview of the project, highlighting its purpose and objectives. The JavaScript Image Editor is designed to allow users to apply various filters and transformations to images in real-time within a web browser. Its main objective is to provide a simple yet effective tool for editing images without the need for specialized software.

## Technologies Used

Here, we list the technologies and libraries utilized in building the image editor. HTML, CSS, and JavaScript are the core technologies used for front-end development. Additionally, external libraries such as Font Awesome, dom-to-image, and FileSaver.js are employed to enhance functionality and provide additional features

**Features**

This section outlines the main features of the image editor:

* **Image Filters:** Users can apply various filters like blur, contrast, hue-rotate, sepia, grayscale, opacity, invert, saturate, and brightness to modify the appearance of images.
* **Image Transformation:** Users can flip images horizontally or vertically to achieve different visual effects.
* **Additional Functionality:** Users can upload images from their local storage, reset the image and applied filters to their default values, and download the edited image for further use.

**Project Structure**

This section describes the structure of the project:

* **HTML Structure:** Explains how the HTML file is organized, including the main structure, head section with metadata and links, and body section containing two main divisions: **.side-bar** for filter controls and **.img-bar** for displaying the image.
* **CSS Styling:** Describes the styles applied to achieve the layout, design, and responsiveness of the image editor.
* **JavaScript Functionality:** Discusses the role of JavaScript in handling image filters, transformations, and user interactions through event listeners.

## Usage Instructions

This section provides step-by-step instructions for using the image editor.

* Upload the image in editor using upload icon  which is in green color.
* Apply the filters that you want such as Blur, Contrast, Hue-Rotate, Sepia, Grayscale, Opacity, Invert, Saturate and Brightness.
* You can also flip the image using flip icon in horizontal and vertical direction.
* After completing the editing you can download edited image using download icon.
* Or you can reset your filters that you have applied to image using reset icon.

## References

1. “<https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css>” directs to the Font Awesome CSS file hosted on the content delivery network (CDN) operated by Cloudflare. This CSS file contains styles for Font Awesome icons, facilitating their integration and usage within web projects.
2. "[https://fonts.googleapis.com](https://fonts.googleapis.com/)" grants access to the Google Fonts API, enabling developers to easily incorporate custom fonts into their web projects, thereby enhancing typography and overall design aesthetics.
3. "[https://fonts.gstatic.com](https://fonts.gstatic.com/)" serves as the domain for hosting font files provided by Google Fonts, enabling developers to access and integrate a diverse selection of fonts into their web projects with ease.
4. "<https://cdnjs.cloudflare.com/ajax/libs/dom-to-image/2.6.0/dom-to-image.min.js>" grants access to the minified version of the Dom-to-Image library, allowing developers to easily integrate image capture functionality into their web applications or websites.
5. "<https://cdnjs.cloudflare.com/ajax/libs/FileSaver.js/2.0.5/FileSaver.min.js>" allows developers to access the minified version of FileSaver.js from a CDN, facilitating the integration of file download functionality into their web applications or websites.