**Cat Image Fetcher & Favorites Manager**

This project allows users to fetch random cat images from TheCatAPI, add them to a favorites list, and display their favorite images. It uses the fetch API to retrieve and send data and requires an API key for authentication.

**Features**

* Fetch a random cat image from TheCatAPI.
* Add cat images to a favorites list.
* Display all favorite cat images.
* **Fetch a Cat Image**: Click the "Fetch Cat Image" button to retrieve a random image of a cat.
* **Add to Favorites**: After fetching an image, click "Add to Favorites" to save the image to your favorites list.
* **Get Favorites**: Click "Get Favorites" to display all favorited cat images.

**Code Explanation**

* **fetchCatImage()**: Sends a GET request to TheCatAPI to fetch a random cat image. Displays the image and provides a button to add it to favorites.
* **displayCatImage(imageId, imageUrl)**: Displays the fetched cat image along with an "Add to Favorites" button.
* **favoriteCatImage(imageId, imageUrl)**: Sends a POST request to save the image to favorites on TheCatAPI and adds it to a local favorites array.
* **displayFavorites()**: Displays all favorited images from the favorites array.

**API Endpoints**

1. **Fetch a Random Cat Image**: https://api.thecatapi.com/v1/images/search
   * Headers: { 'x-api-key': apiKey }
2. **Add to Favorites**: https://api.thecatapi.com/v1/favourites
   * Method: POST
   * Headers: { 'Content-Type': 'application/json', 'x-api-key': apiKey }
   * Body: { "image\_id": imageId, "sub\_id": "user-123" }