Image Recognition with IBM Cloud Visual Recognition

1. **Problem Definition:**

   The project involves creating an image recognition system using IBM Cloud Visual Recognition. The goal is to develop a platform where users can upload images, and the system accurately classifies and describes the image contents. This will enable users to craft engaging visual stories with the help of AI-generated captions, enhancing their connection with the audience through captivating visuals and compelling narratives.

Design Thinking:

Image Recognition Setup:

- Set up the IBM Cloud Visual Recognition service to lay the foundation for our image recognition system.
- Obtain the necessary API keys and credentials to access the Visual Recognition service.

User Interface:

- Design a user-friendly interface that prioritizes ease of use and a visually appealing experience.
- Ensure that users can intuitively upload images and access AI-generated captions.
- Consider user feedback and usability testing to refine the interface.

Image Classification:

- Implement the image classification process using the IBM Cloud Visual Recognition API.
- Develop a mechanism to securely and efficiently transmit user-uploaded images to the service for analysis.
- Create error-handling mechanisms to handle various image types and formats.

AI-Generated Captions:

- Integrate natural language generation (NLG) techniques to automatically generate captions for recognized images.

- Explore available NLG models or libraries that can produce coherent and engaging captions.
- Ensure that the generated captions are contextually relevant to the image contents.

User Engagement:

- Design features that encourage user engagement and exploration of AI-enhanced images.
- Develop a search and filter system to help users find specific images or themes within their collections.
- Implement a user-specific gallery or storage system for saving AI-enhanced images.
- Enable users to easily share their images and captions on social media or other platforms to maximize audience engagement.