CAD – PHASE 3 ASSIGNMENT

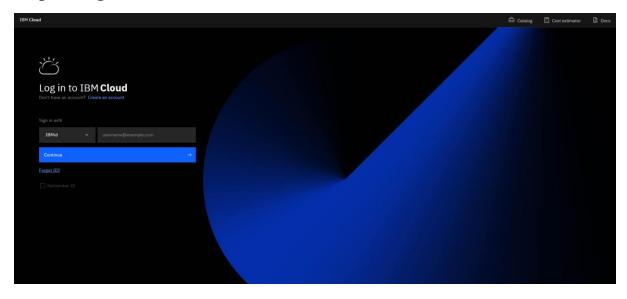
DEVELOPMENT PHASE 1

Design a simple web interface where users can upload images and view the AI-generated captions.

Here are the step-by-step instructions to create a simple web interface for users to upload images and view AI-generated captions.

Step 1: Create an IBM Cloud Account

Step 2: Log into IBM Cloud





Step 3: Set Up the Visual Recognition Service

- Once you are logged in, go to the IBM Cloud Dashboard.
- Click on "Create Resource" to create a new service.
- In the search bar, type "Visual Recognition" and select the "Visual Recognition" service from the catalog.
- Follow the prompts to create the service. You may need to choose a region and give your service a name.

Step 4: Obtain API Keys

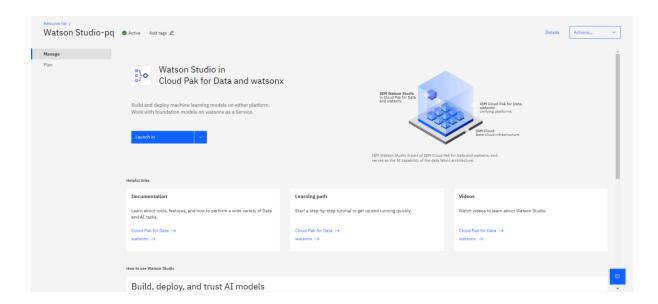
function uploadImage() {

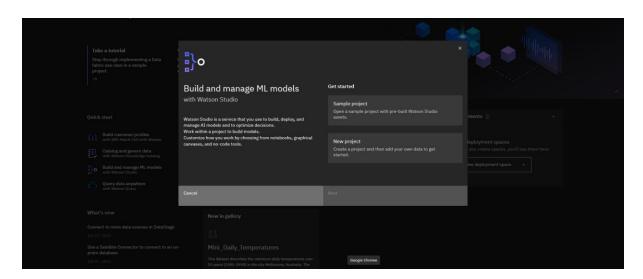
```
Step 5: Design a Simple Web Interface
<!DOCTYPE html>
<html>
<head>
  <title>Image Recognition</title>
</head>
<body>
  <h1>Image Recognition</h1>
  <input type="file" id="imageInput" accept="image/*" />
  <button onclick="uploadImage()">Upload Image</button>
  <div id="imageContainer"></div>
  <div id="captionContainer"></div>
  <script>
    const apiKey = 'YOUR API KEY';
    const apiUrl = 'YOUR API URL';
```

const fileInput = document.getElementById('imageInput');

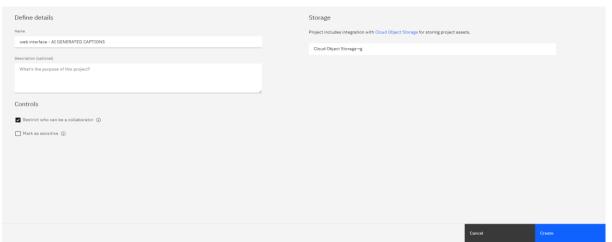
```
const imageContainer = document.getElementById('imageContainer');
       const captionContainer =
document.getElementById('captionContainer');
      if (fileInput.files.length > 0) {
         const imageFile = fileInput.files[0];
         const formData = new FormData();
         formData.append('images file', imageFile);
         fetch(apiUrl + '/v3/classify?version=2022-01-01', {
           method: 'POST',
           headers: {
              'Authorization': 'Basic ' + btoa('apikey:' + apiKey)
           body: formData
         })
         .then(response => response.json())
         .then(data => {
           // Display the uploaded image
            const imageUrl = URL.createObjectURL(imageFile);
            const imgElement = document.createElement('img');
            imgElement.src = imageUrl;
           imageContainer.innerHTML = ";
           imageContainer.appendChild(imgElement);
           // Display the AI-generated captions
```

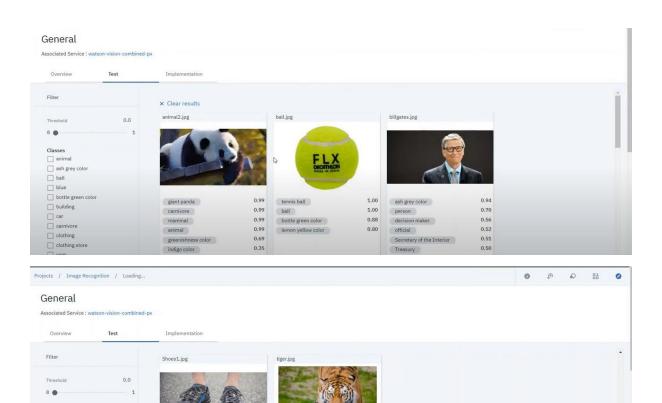
Step 6: Integrate the Visual Recognition API





New project





0.98

0.97

0.97 0.97

0.97 0.78

0.99

0.84

0.84

0.80 0.78

ash grey color

bar sports equipment

foot pedal

clothing footwear

animal

feline

big cat

0.78 tiger 0.70 light brown color

mammal

adult person
animal
ash grey color
ball
bar
beige color
Bengal tiger

☑ big cat