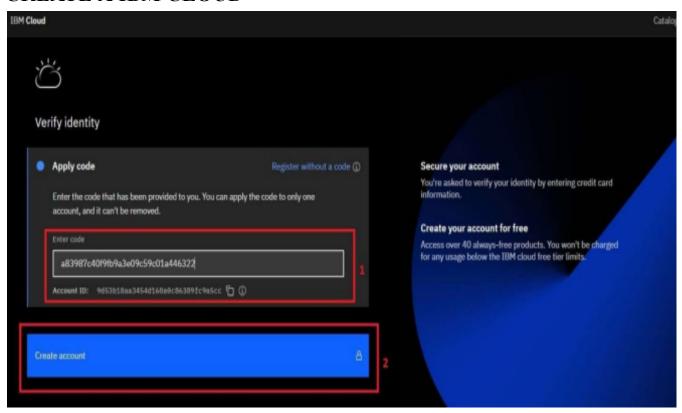
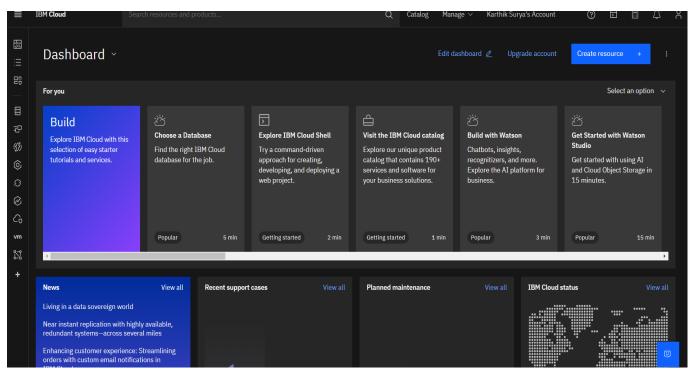
IMAGE RECOGNITION WITH IBM CLOUD VISUAL RECOGNITION PHASE 3

OVERVIEW

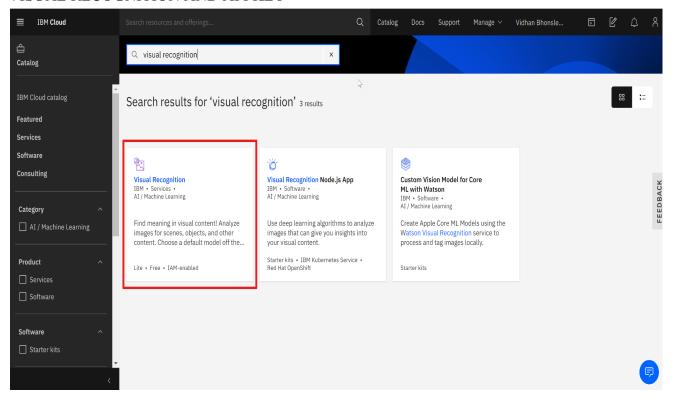
Certainly! Here's an overview of the steps to build an image recognition system using IBM Cloud Visual Recognition and design a simple web interface for users to upload images and view AI-generated captions

IBM CLOUD VISUAL RECOGNITION CREATE A IBM CLOUD





VISUAL RECOGNITION AND API KEY



CODE TO CREATE WEBSITE

STEP 1 CREATE A HTML

```
<!DOCTYPE html>
<html>
<head>
    <title>Image Recognition</title>
</head>
<body>
    <h1>Image Recognition</h1>
    <input type="file" id="imageInput" accept="image/*">
    <button id="analyzeButton">Analyze Image</button>
    AI-generated Caption: <span id="caption"></span>
    <img id="uploadedImage" style="display: none;" />
    <script src="script.js"></script>
</body>
</html>
```

STEP 2:Set Up JavaScript to Call the Visual Recognition API Create a JavaScript file (script.js) to handle user interactions and call the Visual Recognition API using the API key.

```
document.getElementById('analyzeButton').addEventListener('click', () => {
  const fileInput = document.getElementById('imageInput');
  const image = fileInput.files[0];
```

```
if (!image) {
    alert('Please select an image to analyze.');
    return;
  }
  const formData = new FormData();
  formData.append('images file', image);
  // Call the Visual Recognition API
  analyzeImage(formData);
});
async function analyzeImage(imageData) {
  // Replace with your Visual Recognition API key
  const apiKey = 'YOUR API KEY';
  const url =
'https://api.us-south.visual-recognition.watson.cloud.ibm.com/instances/YOUR INSTANCE
_ID/v3/classify?version=2018-03-19;
  try {
    const response = await fetch(url, {
       method: 'POST',
       headers: {
         'Authorization': `Basic ${btoa(`apikey:${apiKey}`)}`,
       },
       body: imageData,
    });
    if (response.ok) {
       const result = await response.json();
       displayCaption(result);
    } else {
       alert('Error analyzing the image. Please try again.');
  } catch (error) {
    console.error('An error occurred:', error);
}
function displayCaption(result) {
  const caption = result.images[0].classifiers[0].classes[0].class;
  const captionElement = document.getElementById('caption');
  captionElement.textContent = caption;
```

```
}
// Replace with your Visual Recognition API key
const apiKey = 'YOUR API KEY';
// Event listener for the "Analyze Image" button
document.getElementById('analyzeButton').addEventListener('click', () => {
  const fileInput = document.getElementById('imageInput');
  const image = fileInput.files[0];
  const formData = new FormData();
  formData.append('images file', image);
  // Use the IBM Watson Visual Recognition SDK to analyze the image
  // Include code here to send the image to the Visual Recognition service
  // and display the AI-generated caption in the 'caption' span.
});
  Upload files
                                                                                        ×
  to Shared / Projects / Syrah
                                       Choose file(s)
                                    or drag & drop files here
                           You can select more than one file at a time.
                                                                                    Close
```