**Procedures to access the blog:**

**1. Set Up IBM Cloud Account:**

- If you haven't already, sign up for an IBM Cloud account.

**2. Create a Static Website:**

- Develop your travel blog website using HTML, CSS, and potentially JavaScript for interactivity.

**3. Version Control:**

- Use a version control system like Git to manage your project.

**4. Host on GitHub:**

- Host your code on GitHub. This will be the source repository for your web app.

**5. Set Up IBM Cloud Static Web Apps:**

- Log in to your IBM Cloud account.

- Go to the IBM Cloud dashboard and navigate to the "Create Resource" section.

- Search for "Static Web Apps" and create a new instance.

**6. Connect GitHub Repository:**

- In the Static Web Apps instance, connect it to your GitHub repository.

**7. Configure Build and Deploy:**

- Define the build settings, such as the build command and output directory.

**8. Add API (Optional):**

- If your blog requires dynamic features, consider adding an API using serverless functions.

**9. Set Up Domain (Optional):**

- If you have a custom domain, configure it to point to your IBM Cloud Static Web App.

**10. Document Your Blog:**

- Create content for your travel blog, including text, images, and possibly videos.

**11. Add Pages and Navigation:**

- Create separate pages for different blog posts or categories, and implement navigation.

**12. Customize Design and Style:**

- Fine-tune the CSS to make your blog visually appealing and user-friendly.

**13. Test Your Site:**

- Make sure your website works as expected, and that all links and features function properly.

**14. Deploy Your Site:**

- Push your changes to GitHub to trigger the build and deployment process on IBM Cloud.

**15. Monitor and Maintain:**

- Keep an eye on your blog's performance and address any issues that arise.

**16. Document the Process:**

- Create documentation for yourself or others who may want to replicate the setup.

**PROGRAM:**

**1. Dynamic Weather Updates:**

Implement OpenWeatherMap API for real-time weather updates.

**javascript**

// Sample code to fetch weather data using OpenWeatherMap API

const apiKey = 'YOUR\_API\_KEY';

const city = 'Paris';

const

apiUrl = `https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${apiKey}`;

fetch(apiUrl)

.then(response => response.json())

.then(data => {

const weatherDescription = data.weather[0].description;

const temperature = data.main.temp;

console.log(`Weather in ${city}: ${weatherDescription},

Temperature: ${temperature}°C`);});

**2. \*Interactive Map Integration:\***

Integrate Mapbox to display an interactive map with markers.

**html**

<!-- Sample HTML code for Mapbox integration -->

<div id='map' style='width: 800px; height: 600px;'></div>

<script>

mapboxgl.accessToken = 'YOUR\_ACCESS\_TOKEN';

const map = new mapboxgl.Map({

container: 'map',

style: 'mapbox://styles/mapbox/streets-v11',

center: [-74.5, 40],

zoom: 9

});

new mapboxgl.Marker()

.setLngLat([-74.5, 40])

.addTo(map);

</script>

**3. \*AI-Powered Language Translation:\***

Integrate IBM Watson Language Translator API for language translation.

**javascript**

// Sample code for language translation using IBM Watson Language Translator

const LanguageTranslatorV3 = require('ibm-watson/language-translator/v3');

const { IamAuthenticator } = require('ibm-watson/auth');

const translator = new LanguageTranslatorV3({

version: '2018-05-01',

authenticator: new IamAuthenticator({ apikey: 'YOUR\_API\_KEY' }),

url: 'YOUR\_SERVICE\_URL',

});

const translateParams = {

text: 'Hello, how are you?',

source: 'en',

target: 'fr',

};

translator.translate(translateParams)

.then(translationResult => {

console.log(JSON.stringify(translationResult.result, null, 2));

})

.catch(err => {

console.log('error:', err);

});

**4. \*Virtual Reality Tours:\***

Embed a WebVR tour using A-Frame framework.

**html**

<!-- Sample HTML code for WebVR tour -->

<a-scene>

<a-sky src="path/to/360-image.jpg"></a-sky>

</a-scene>

**5. \*Voice Search Integration:\***

Implement IBM Watson Speech to Text for voice search.

**javascript**

// Sample code for speech to text using IBM Watson Speech to Text

const SpeechToTextV1 = require('ibm-watson/speech-to-text/v1');

const { IamAuthenticator } = require('ibm-watson/auth');

const speechToText = new SpeechToTextV1({

authenticator: new IamAuthenticator({ apikey: 'YOUR\_API\_KEY' }),

serviceUrl: 'YOUR\_SERVICE\_URL',

});

const recognizeParams = {

audio: fs.createReadStream('path/to/audio-file.wav'),

contentType: 'audio/wav',

};

speechToText.recognize(recognizeParams)

.then(speechRecognitionResult => {

console.log(JSON.stringify(speechRecognitionResult.result, null, 2));

})

.catch(err => {

console.log('error:', err);

});

Remember to replace placeholders like `'YOUR\_API\_KEY'` and `'YOUR\_SERVICE\_URL'` with actual values.

**6. \*AR Souvenir Collection:\***

- Use AR.js to create a virtual souvenir collection.

**html**

<!-- Sample HTML code for AR Souvenir Collection -->

<a-scene embedded arjs>

<a-marker preset="hiro">

<a-entity

position="0 0 0"

scale="0.4 0.4 0.4"

gltf-model="path/to/souvenir-model.glb">

</a-entity>

</a-marker>

<a-entity camera></a-entity>

</a-scene>

**7. \*Blockchain-Based Reviews:\***

Implement a simple blockchain for secure reviews using Ethereum and web3.js.

**javascript**

// Sample JavaScript code for Blockchain-Based Reviews

const Web3 = require('web3');

const web3 = new Web3('https://mainnet.infura.io/v3/YOUR\_INFURA\_API\_KEY');

const contractAddress = 'CONTRACT\_ADDRESS';

const

api=[{"constant":false,"inputs":[{"name":"\_review","type":"string"}],

"name":"addReview","outputs":[],"payable":false,"stateMutability":"nonpayable","type":"function"}];

const contract = new web3.eth.Contract(abi, contractAddress);

const addReview = async (review) => {

const accounts = await web3.eth.getAccounts();

await contract.methods.addReview(review).send({ from: accounts[0] });

};

addReview('Great experience!');

**8. \*Live Webcam Feeds:\***

Use an API like EarthCam to embed live webcam feeds.

**html**

<!-- Sample HTML code for Live Webcam Feed -->

<iframe src="https://www.earthcam.com/cams/newyork/timessquare/?cam=tsrobo1" width="800" height="600"></iframe>

**9. \*Voice Assistant Integration:\***

Implement a simple voice assistant using a framework like Dialogflow.

**javascript**

// Sample JavaScript code for Voice Assistant

const dialogflow = require('dialogflow');

const sessionClient = new dialogflow.SessionsClient();

const projectId = 'YOUR\_PROJECT\_ID';

const sessionId = '123456';

const sessionPath = sessionClient.sessionPath(projectId, sessionId);

const query = 'What are some travel tips for Paris?';

const request = {

session: sessionPath,

queryInput: {

text: {

text: query,

languageCode: 'en-US',

},

},

};

sessionClient.detectIntent(request)

.then(responses => {

const result = responses[0].queryResult;

console.log(`Response: ${result.fulfillmentText}`);

})

.catch(err => { console.error('ERROR:', err);});

**10. \*Dynamic Itinerary Generator:\***

Use a combination of HTML, CSS, and JavaScript to dynamically generate travel itineraries based on user preferences.

**html**

<!-- Sample HTML code for Dynamic Itinerary Generator -->

<div id="itinerary"></div>

<script>

const preferences = ['Museum Visit', 'Outdoor Activities', 'Shopping'];

const generateItinerary = () => {

const itineraryElement = document.getElementById('itinerary');

preferences.forEach(preference => {

const activityElement = document.createElement('div');

activityElement.textContent = `Day 1: ${preference}`;

itineraryElement.appendChild(activityElement);

});

};

generateItinerary();

</script>