

CLOUD APPLICATION DEVELOPMENT - GROUP 5

Project Title: Personal Travel Blog

Problem Statement: Creating a personal travel blog hosted on IBM Cloud Static Web Apps is an exciting project that requires careful planning and execution.

1. Define Your Blog's Purpose and Audience:

Clarify the purpose of your travel blog. Is it to inspire others, share travel experiences, or provide practical travel tips?

Identify your target audience, as this will influence your content and design decisions.

2. Content Planning:

Structure your blog with the following sections:

Home: Introduction and latest posts.

Travel Stories: Detailed accounts of your adventures.

Travel Tips: Practical advice for fellow travellers.

Photos: A gallery showcasing your captivating travel photos.

Map: An interactive map displaying the places you've visited.

3. Content Creation:

Write engaging and informative travel stories. Include personal anecdotes, local insights, and any unique experiences.

Share practical travel tips, such as packing guides, budgeting advice, and destination recommendations.

Curate and optimize your travel photos. Use image captions to add context and enhance storytelling.

Consider incorporating videos or vlogs for an immersive experience.

4. Website Design:

Create a user-friendly and visually appealing layout using HTML and CSS.

Ensure your blog is responsive, so it looks good on various devices.

Consider adding interactive elements using JavaScript, like a search feature or a comment section.

Choose a colour scheme and typography that aligns with your blog's theme and personality.

5. IBM Cloud Setup:

Sign up for an IBM Cloud account if you don't have one already.

Create a Static Web App in IBM Cloud to host your blog. You can follow IBM's documentation for guidance.

Set up a custom domain if desired.

6. Content Management:

Choose a suitable CMS or static site generator for your blog. Popular options include Jekyll, Hugo, or WordPress (for a headless CMS).

If using a CMS, customize it to match your blog's design.

Ensure your chosen CMS or static site generator allows for easy content updates and publishing.

7. SEO and Social Integration:

Optimize your blog for search engines (SEO) by using relevant keywords and meta tags.

Integrate social sharing buttons to encourage readers to share your content.

Consider adding a newsletter signup form to build an email list.

8. Regular Updates:

Plan a content calendar to maintain a consistent posting schedule.

Engage with your audience through comments and social media.

Continuously improve your blog based on user feedback.

9. Backup and Security:

Implement regular backups of your blog's content and settings.

Ensure your blog is secure by using HTTPS and keeping software up to date.

10. Analytics:

Set up website analytics to track user behaviour and engagement. Use the data to refine your content and marketing strategies.

PERSONAL BLOG ON STATIC WEB APPS

Here's a continuous workflow for transforming our design concept into a functional personal travel blog hosted on IBM Cloud Static Web Apps:



1. Content Planning and Research:

- ✓ Define the blog's structure, categories, and navigation.
- ✓ Conduct keyword research for SEO optimization.
- ✓ Create a content calendar and plan blog posts.

2. Content Creation:

- ✓ Write engaging blog posts with storytelling elements.
- ✓ Include personal anecdotes and practical travel tips.
- ✓ Curate high-quality travel photos with descriptive captions.
- ✓ Optimize blog posts for search engines.

3. Website Design and Front-end Development:

- ✓ Design the blog's user interface (UI) with a focus on aesthetics and functionality.
- ✓ Implement the UI using HTML, CSS, and JavaScript.
- ✓ Ensure responsive design for various devices.
- ✓ Integrate interactive elements and user-friendly navigation.

4. IBM Cloud Setup:

- ✓ Sign up for an IBM Cloud account and configure account settings.
- ✓ Create a Static Web App on IBM Cloud with a chosen domain.
- ✓ Set up automated deployment of front-end code.

5. Deployment and Hosting:

- ✓ Deploy the front-end code and assets to the IBM Cloud Static Web App.
- ✓ Ensure secure and reliable hosting on IBM Cloud.

6. Content Management:

- ✓ Use a content management system (CMS) or admin panel to publish and manage blog posts.
- ✓ Regularly update the blog with fresh content.
- ✓ Monitor comments and engage with readers.

7. Performance Optimization:

- ✓ Monitor website performance and page load times.
- ✓ Optimize images and assets for faster loading.
- ✓ Implement performance improvements based on insights.

8. Security and Compliance:

- ✓ Implement security measures, including SSL certificates.
- ✓ Conduct regular security audits and keep software updated.
- ✓ Ensure compliance with data privacy regulations.

9. SEO and Marketing:

- ✓ Continuously optimize the website for search engines.
- ✓ Promote the blog through social media and email marketing.
- ✓ Measure and analyze website traffic and user behavior.

10. User Training and Documentation:

- ✓ Create a user guide or FAQ section for readers.
- ✓ Encourage user feedback and make improvements.

11. Scaling and Optimization:

- ✓ Plan for scalability as the blog's readership grows.
- ✓ Regularly optimize the website's performance.

12. Backup and Disaster Recovery:

- ✓ Implement a robust backup strategy and off-site storage.
- ✓ Develop a disaster recovery plan.

13. Documentation and Knowledge Transfer:

- ✓ Maintain comprehensive documentation for the website.
- ✓ Conduct knowledge transfer sessions for team members or stakeholders.

This streamlined process covers all aspects of content creation, web development, hosting, and ongoing maintenance.

Here's a document that discusses the integration of social media sharing buttons, interactive maps, and comment sections to enhance user engagement and interaction:

The Personal Travel Blog hosted on IBM Cloud Static Web Apps is a platform dedicated to sharing travel experiences, tips, and captivating photos. To further enrich the user experience and engage readers effectively, we propose the integration of several innovative features, including social media sharing buttons, interactive maps, and comment sections. These enhancements will not only inspire readers but also foster community interaction and user engagement.

Innovative Solutions

1. Social Media Sharing Buttons

Objective: Encourage readers to share content with their social networks, thereby increasing the blog's reach and engagement.

Implementation:

- Add social media sharing buttons to each blog post, allowing readers to easily share articles on platforms like Facebook, Twitter, Instagram, and Pinterest.
- Customize sharing buttons to include visually appealing icons and concise

sharing prompts.

- Implement Open Graph Protocol tags to ensure that shared posts display attractive images and descriptions on social media platforms.

Benefits:

- Amplifies the blog's visibility and attracts a broader audience.
- Empowers readers to become advocates for the blog's content.
- Enhances the blog's overall social presence and brand awareness.

1. Interactive Maps

Objective: Provide readers with a dynamic visual representation of travel destinations and itineraries, enhancing their understanding and engagement.

Implementation:

- Embed interactive maps within relevant blog posts, illustrating the geographic context of travel experiences.
- Utilize mapping APIs to create custom maps with markers, routes, and interactive layers.
- Include descriptions, photos, and links to corresponding blog content directly on the map.

Benefits:

- Offers readers an immersive and informative way to explore travel destinations.
- Helps readers plan their own trips by visualizing routes and attractions.
- Increases user engagement by providing interactive and dynamic content.

2. Comment Sections

Objective: Foster community interaction, discussions, and feedback among readers and the blogger.

Implementation:

- Enable comment sections on each blog post, allowing readers to share their thoughts, questions, and experiences.
- Implement user-friendly and spam-resistant comment forms with options for guest and registered user comments.
- Moderate comments to ensure a positive and respectful environment for discussions.

Benefits:

- Creates a sense of community among readers and the blogger.
- Encourages user-generated content and valuable insights.
- Facilitates direct communication and feedback between the blogger and readers.

Conclusion:

By integrating these innovative features – social media sharing buttons, interactive maps, and comment sections – into the Personal Travel Blog hosted on IBM Cloud Static Web Apps, we aim to elevate the user experience, foster reader engagement, and create a dynamic and interactive platform. These enhancements will not only inspire travel enthusiasts but also facilitate valuable interactions and discussions within the blog's community.

Cloud App Development

Personal Blog on IBM Cloud Static Web Apps

Here's an overview of the structure and content for a personal travel blog on a static web page for CAD Phase 3. Website layout is designed using HTML and CSS. It has been made with engaging content, captivating photos and travel stories as described:

1. Home Page:



- ✓ Welcome Screen: The home page features a welcome message and the title of your travel blog.
- ✓ Menu: A navigation menu with four options: "Home," "Blog," "About Me," and "Contact."
- ✓ Footer: A footer with copyright information

2. Blog Page:

- ✓ Header: A header with the blog page title.
- ✓ Blog Posts:

1.Yercaud:

- ✓ A blog post with information and captivating pictures about Yercaud.
- ✓ You can use an `<h2>` for the post title and one or more `` tags for images



Yercaud

Yercaud is a hill station near Salem, in the Servarayan range of hills (anglicized as Shevaroy) in the Eastern Ghats. It is at an altitude of 1515 metres (4969 feet) above the sea level. The total extent of Yercaud Taluk is 382.67 Sq.kms. including Reserve Forest. The entire Taluk is a Township. Yercaud has also a Panchayat Union with its Head Quarters at Yercaud and its Jurisdiction is the same as for Yercaud

Taluk. Popular as the "Poor man's Ooty". Yercaud is one of the low cost hill station destination in India.

2. Tanjore Brahadeswara Temple:

- ✓ Another blog post with information and images describing your journey through the Tanjore Brahadeswara Temple.
- ✓ Use a title and images as in the first blog post.

Tanjore Brahadeswara Temple

This famous Thanjavur temple is the biggest attraction of this place. This temple is also known as Thanjavur big temple that was built by the great Chola King Raja Raja Chola. This temple is an architectural prodigy and is famous among devotees. This temple is protected by deep ditches on both sides and the Grand Anicut River is passing through another side of the temple. The shrine of the temple is 216 feet. The temple is adorned with several astonishing paintings from the Chola and Nayak periods. At the entrance of the temple, you will find the statue of Nandi (the Bull).



3. Kutralam-The Land of Majestic Waterfalls & Healing Waters:

- ✓ A third blog post showcasing your adventures KutralamWaterfalls
- ✓ Include images and engaging content.
- ✓ Navigation Menu: The menu with options like "Home," "Blog," "About Me," and "Contact" remains present for easy navigation.
- ✓ Footer: The footer provides copyright information and a linkback to the home page.



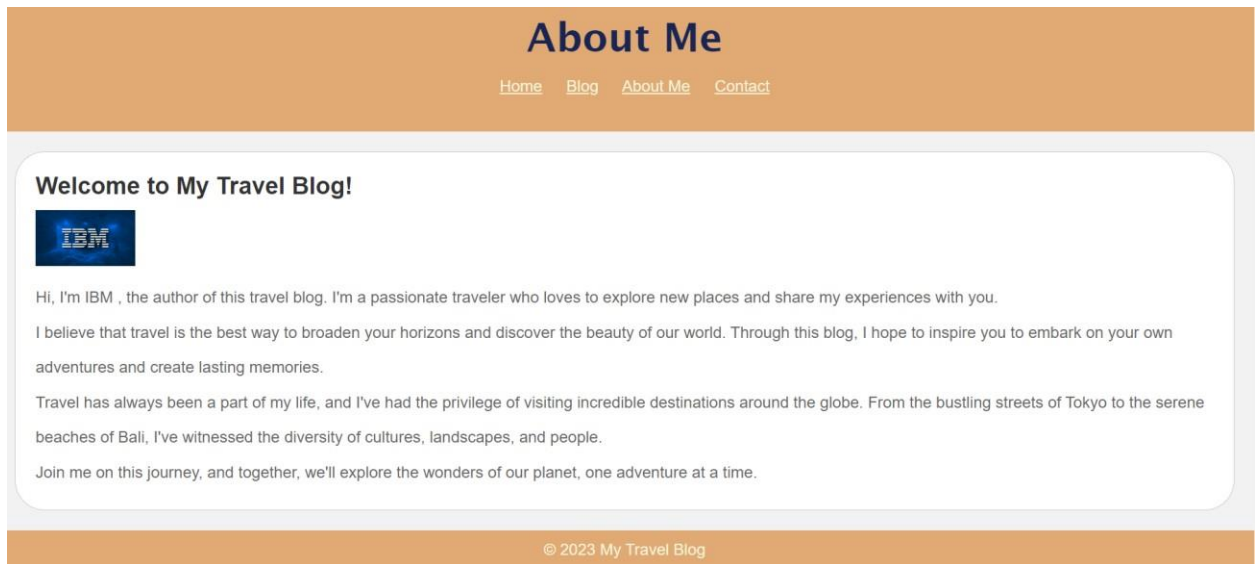
Kutralam – The Land Of Majestic Waterfalls & Healing Waters

Nestled in the scenic Western Ghats, Kutralam (குற்றாலம்) is a popular tourist destination of South Tamil Nadu. Courtallam or Kutralam is a town situated at a height of 160 m (520 ft) above sea level in the foothills of the Western Ghats in Tirunelveli district of Tamil Nadu, India. The very name of the place has become synonymous with the thundering waterfalls that flow here. It is also home to centuries old ancient temples and other famous places of interest. Several seasonal and perennial rivers such as Thamirabarani, Manimuthar, Pachaiyar and Chittar originate in this lush region. The title "Spa of South India" fits perfectly for Kutralam due to the numerous magnificent waterfalls and the healing and medicinal properties of the water that flows here. This

has led to the rise of numerous health resorts in and around this quaint town. The falls do not flow throughout the year and are highly dependent on rainfall. They carry substantial amounts of water when the rivers feeding the falls receive heavy rain. The best time to visit Kutralam is from June to September, when the South West Monsoon kicks off in the nearby state of Kerala. People are not allowed to bathe when the falls are flooded due to heavy rainfall.

About Me Page:

- ✓ Header: A header with the title "About Me."
- ✓ Content: Information about you, your travel experiences, and motivations for writing the blog.
- ✓ Profile Picture: An image of yourself.
- ✓ Navigation Menu: The menu with options like "Home," "Blog," "About Me," and "Contact" remains present.
- ✓ Footer: The footer provides copyright information.



Contact Page:

- ✓ Header: A header with the title "Contact."
- ✓ Contact Form: A form that allows readers to get in touch with you. The form should include fields for their name, email, and a message
- ✓ Submit Button: A button for submitting the form.
- ✓ Navigation Menu: The menu with options like "Home," "Blog," "About Me," and "Contact" is available.
- ✓ Footer: The footer provides copyright information.

Contact Me

[Home](#)[Blog](#)[About Me](#)[Contact](#)

Get in Touch for any Queries

Your Name:

Your Email:

Message:

Submit

This is just an overview, and we could expand and customize each section with more details, images, and styling to create a fully-fledged personal travel blog.

Here is the HTML & CSS Code

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="styles.css">
  <title>My Travel Blog</title>
</head>
<body >
  <header>
    <h1 style="color: #192655; font-family:Lucida Sans; font-size: 40px;" >Welcome to
My Travel Blog</h1>
    <nav>
      <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="blog.html">Blog</a></li>
```

```

        <li><a href="about.html">About Me</a></li>
        <li><a href="contact.html">Contact</a></li>
    </ul>
</nav>
</header>
<main>

    <div class="img">
        
    </div>
</main>
<footer>
    <p>&copy; 2023 My Travel Blog</p>
</footer>
</body>
</html>

```

Styles.css

```

/* styles.css */
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #F3F0CA;
}

header {
    background-color: #E1AA74;
    color: white;
    padding: 20px;
    text-align: center;
}

nav ul {
    list-style: none;
}

nav ul li {
    display: inline;
    margin-right: 20px;
}

main {
    padding: 20px;
}

```

```

footer {
    background-color: #E1AA74;
    color: beige;
    text-align: center;
    padding: 10px;
}

a{
    color: beige;
}

```

Blog.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="style.css">
    <title>Blog - My Travel Blog</title>
</head>
<body>
    <header>
        <h1 style="color: #192655; font-family:Lucida Sans; font-size: 40px;">My Travel
Blog</h1>
        <nav>
            <ul>
                <li><a href="index.html">Home</a></li>
                <li><a href="blog.html">Blog</a></li>
                <li><a href="about.html">About Me</a></li>
                <li><a href="contact.html">Contact</a></li>
            </ul>
        </nav>
    </header>
    <main>
        <section class="blog-post">
            <figure class="image-left" style="margin: 0px;">
                <div class="bb">
                    
                </div>
                <figcaption>
                    <h2>Yercaud</h2>
                    <p style="margin-top: 30px; word-spacing: 5px;line-height: 35px;">
                        <span style="margin-left: 35px;">Yercaud is a hill station near
Salem, in the Servarayan range of hills (anglicized as Shevaroys) in the Eastern Ghats.
It is at an altitude of 1515 metres (4969 feet) above the see level. The total extent of
Yercaud Taluk is 382.67 Sq.kms. including Reserve Forest. The entire Taluk is a Township.

```

Yercaud has also a Panchayat Union with its Head Quarters at Yercaud and its Jurisdiction is the same as for Yercaud Taluk. Popular as the “Poor man’s Ooty”.

Yercaud is one of the low cost hill station destination in India.

</p>

</figcaption>

</figure>

</section>

<section class="blog-post">

<h2 style="margin-left: 5px;">Tanjore Brahadeswara Temple</h2>

<div class="amazon">

</div>

<p style="margin-top: 30px; word-spacing: 5px;line-height: 35px;">

This famous Thanjavur temple is the biggest attraction of this place.

This temple is also known as Thanjavur big temple that was built by the great Chola King Raja Raja Chola. This temple is an architectural prodigy and is famous among devotees. This temple is protected by deep ditches on both sides and the Grand Anicut River is passing through another side of the temple. The shrine of the temple is 216 feet. The temple is adorned with several astonishing paintings from the Chola and Nayak periods. At the entrance of the temple, you will find the statue of Nandi (the Bull).

</p>

</section>

<section class="blog-post">

<h2 style="margin-left: 680px;">Kutralam – The Land Of Majestic Waterfalls & Healing Waters</h2>

<div class="amazon">

</div>

<p style="margin-top: 30px; word-spacing: 5px;line-height: 35px;">

Nestled in the scenic Western Ghats, Kutralam (குற்றாலம்) is a popular tourist destination of South Tamil Nadu. Courtallam or Kutralam is a town situated at a height of 160 m (520 ft) above sea level in the foothills of the Western Ghats in Tirunelveli district of Tamil Nadu, India. The very name of the place has become synonymous with the thundering waterfalls that flow here. It is also home to centuries old ancient temples and other famous places of interest. Several seasonal and perennial rivers such as Thamirabarani, Manimuthar, Pachaiyar and Chittar originate in this lush region.

The title “Spa of South India” fits perfectly for Kutralam due to the numerous magnificent waterfalls and the healing and medicinal properties of the water

that flows here. This has led to the rise of numerous health resorts in and around this quaint town. The falls do not flow throughout the year and are highly dependent on rainfall. They carry substantial amounts of water when the rivers feeding the falls receive heavy rain. The best time to visit Kutralam is from June to September, when the South West Monsoon kicks off in the nearby state of Kerala. People are not allowed to bathe when the falls are flooded due to heavy rainfall.

```
        </section>
    </main>
    <footer>
        <p>&copy; 2023 My Travel Blog</p>
    </footer>

</body>
</html>
```

Style.css

```
/* Reset some default styles for consistency */
body, h1, h2, p, img, a {
    margin: 0;
    padding: 0;
}

/* Apply a background color and style the body text */
body {
    font-family: Arial, sans-serif;
    background-color: #f2f2f2;
    color: #333;
}

header {
    background-color: #E1AA74;
    color: white;
    padding: 20px;
    text-align: center;
}

header h1 {
    font-size: 2em;
}

nav ul {
    list-style: none;
}

nav ul li {
    display: inline;
    margin-right: 20px;
```

```
}

main {
    padding: 20px;
}

.blog-post {
    background-color: white;
    border: 1px solid #ccc;
    padding: 20px;
    margin: 10px 0;
    overflow: auto;
}

.blog-post h2 {
    font-size: 1.5em;
    color: #333;
}

.blog-post img {
    max-width: 40%;
    float: left;
    margin: 10px 20px 10px 0;
}

.blog-post p {
    color: #666;
}

.blog-post a {
    color: #007bff;
    text-decoration: none;
}

.blog-post a:hover {
    text-decoration: underline;
}

footer {
    background-color: #E1AA74;
    color: beige;
    text-align: center;
    padding: 10px;
}

a{
    color: beige;
}
```

About.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="abtstyles.css">
  <title>About Me - My Travel Blog</title>
</head>
<body>
  <header>
    <h1 style="color: #192655; font-family:'Lucida Sans'; font-size: 40px;">About
Me</h1>
    <nav>
      <ul>
        <li><a style="color: beige;" href="index.html">Home</a></li>
        <li><a style="color: beige;" href="blog.html">Blog</a></li>
        <li><a style="color: beige;" href="about.html">About Me</a></li>
        <li><a style="color: beige;" href="contact.html">Contact</a></li>
      </ul>
    </nav>
  </header>
  <main>
    <section class="about-me">
      <h2>Welcome to My Travel Blog!</h2>
      
      <p style="line-height: 35px;">
        Hi, I'm IBM , the author of this travel blog. I'm a passionate traveler
        who loves to explore new places and share my experiences with you.
      </p>
      <p style="line-height: 35px;">
        I believe that travel is the best way to broaden your horizons and
discover
        the beauty of our world. Through this blog, I hope to inspire you to
embark on
        your own adventures and create lasting memories.<br>
        Travel has always been a part of my life, and I've had the privilege of
        visiting incredible destinations around the globe. From the bustling
streets
        of Tokyo to the serene beaches of Bali, I've witnessed the diversity of
cultures,
        landscapes, and people.<br>
        Join me on this journey, and together, we'll explore the wonders of our
planet,
        one adventure at a time.
      </p>
    </section>
  </main>
  <footer>
```

```
        <p>&copy; 2023 My Travel Blog</p>
    </footer>
</body>
</html>
```

Style.css

```
body, h1, h2, p {
    margin: 0;
    padding: 0;
}

body {
    font-family: Arial, sans-serif;
    background-color: #f2f2f2;
    color: #333;
}

header {
    background-color: #E1AA74;
    color: white;
    padding: 20px;
    text-align: center;
}

header h1 {
    font-size: 2em;
}

nav ul {
    list-style: none;
}

nav ul li {
    display: inline;
    margin-right: 20px;
}

/* Style the main content area */
main {
    padding: 20px;
}

/* Style the "About Me" section */
.about-me {
    background-color: white;
    border: 1px solid #ccc;
```

```

padding: 20px;
border-radius: 30px;
}

.about-me h2 {
font-size: 1.5em;
color: #333;
}

.about-me img {
max-width: 100px;
height: auto;
margin: 10px 0;
}

.about-me p {
color: #666;
}

footer {
background-color: #E1AA74;
color: beige;
text-align: center;
padding: 10px;
}

```

Contact.html

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="cntstyles.css">
  <title>Contact - My Travel Blog</title>
</head>
<body>
  <header>
    <h1 style="color: #192655; font-family: Lucida Sans; font-size: 40px;">Contact
Me</h1>
    <nav>
      <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="blog.html">Blog</a></li>
        <li><a href="about.html">About Me</a></li>
        <li><a href="contact.html">Contact</a></li>
      </ul>
    </nav>

```

```

</header>
<main>
  <section class="contact-form">
    <h2>Get in Touch for any Queries</h2>
    <form action="submit.php" method="post">
      <label for="name">Your Name:</label>
      <input type="text" id="name" name="name" required autocomplete="off">

      <label for="email">Your Email:</label>
      <input type="email" id="email" name="email" required autocomplete="off">

      <label for="message">Message:</label>
      <textarea id="message" name="message" rows="4" required
autocomplete="off"></textarea>

      <button type="submit">Submit</button>
    </form>
  </section>
</main>
<footer>
  <p>&copy; 2023 My Travel Blog</p>
</footer>
</body>
</html>

```

Style.css

```

/* Reset some default styles for consistency */
body, h1, h2, form, label, input, textarea, button {
  margin: 0;
  padding: 0;
}

/* Apply a background color and style the body text */
body {
  font-family: Arial, sans-serif;
  background-color: #f2f2f2;
  color: #333;
}

/* Style the header, including the navigation menu */
header {
  background-color: #E1AA74;
  color: white;
  padding: 20px;
  text-align: center;
}

```

```
header h1 {
    font-size: 2em;
}

nav ul {
    list-style: none;
}

nav ul li {
    display: inline;
    margin-right: 20px;
}

/* Style the main content area */
main {
    padding: 20px;
}

/* Style the contact form section */
.contact-form {
    background-color: white;
    border: 1px solid #ccc;
    padding: 20px;
}

.contact-form h2 {
    font-size: 1.5em;
    color: #333;
}

form label {
    display: block;
    margin: 10px 0;
}

form input,
form textarea {
    width: 100%;
    padding: 10px;
    margin: 5px 0;
    border: 1px solid #ccc;
    border-radius: 5px;
}

form button {
    background-color: #007bff;
    color: white;
    border: none;
    border-radius: 5px;
}
```

```
padding: 10px 20px;
cursor: pointer;
}

/* Style the footer */
footer {
  background-color: #E1AA74;
  color: beige;
  text-align: center;
  padding: 5px;
  margin-top: 100px;
}

a{
  color: beige;
}
```

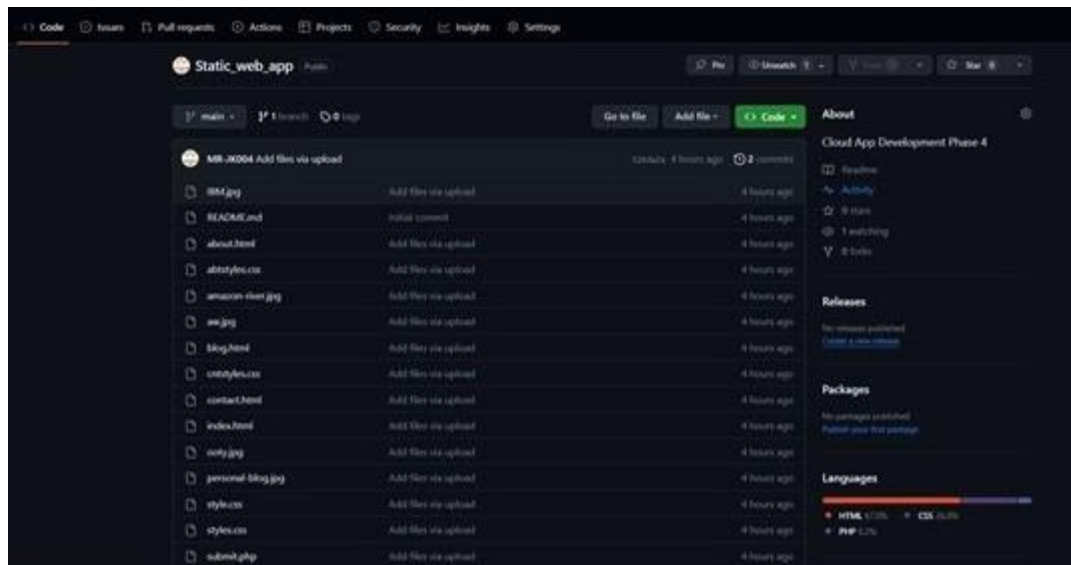
Cloud App Development

Personal Blog on IBM Cloud Static Web Apps

Creating a static web app with IBM Cloud involves several steps, including setting up a repository, creating a build pipeline, and configuring deployment options. Additionally, it has been mentioned using a static site generator like Jekyll or Hugo to manage our blog content more easily. Below are the steps to go:

1. Create a GitHub Repository:

Start by creating a new GitHub repository to store our project. If we're using an existing repository, make sure it contains HTML files, CSS files, and any other assets that are need.



2. Choose a Static Site Generator:

Select and set up a static site generator like Jekyll or Hugo. Follow the documentation to create templates for our content. These templates will make it easier to manage our blog content.



3. Add Template Files:

Convert our HTML content into template files that are compatible with our chosen static site generator. For example, we might convert our index.html into Jekyll's Liquid template format or Hugo's Markdown format. Customize these templates to suit our blog's design.



4. Set Up the Local Development Environment:

Install and configure the necessary tools and dependencies for our chosen static site generator. Typically, this involves installing the generator, setting up a development server, and testing our templates locally.

5. Build Our Blog Content:

Create blog posts, pages, or other content using the templates we've set up. This content will be converted into HTML pages by the static site generator.

The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with a 'blog' directory containing 'personalBlog' and 'archetypes'. The 'personalBlog' directory contains a 'posts' directory, which contains the file 'mypost.md'. The code editor shows the content of 'mypost.md', which is a Markdown file for a blog post titled 'Yercaud'. The content includes a title, date, and two paragraphs of text about Yercaud.

```
1 ---
2 title: "Yercaud"
3 date: 2023-10-25T19:23:31+05:30
4 ---
5
6 - Yercaud is a hill station near Salem, in the Servarayan range of hills (anglicized as Shevaroy) in the
  Eastern Ghats. It is at an altitude of 1515 metres (4969 feet) above the sea level. The total extent of Yercaud
  Taluk is 382.67 Sq.kms. including Reserve Forest. The entire Taluk is a Township. Yercaud has also a Panchayat
  Union with its Head Quarters at Yercaud and its Jurisdiction is the same as for Yercaud Taluk. Popular as the
  "Poor man's Ooty".
7
8 - Yercaud is one of the low cost hill station destination in India.
```

6. Push Code to GitHub:

Commit our code, including the template files, content, and any additional assets, to our GitHub repository.

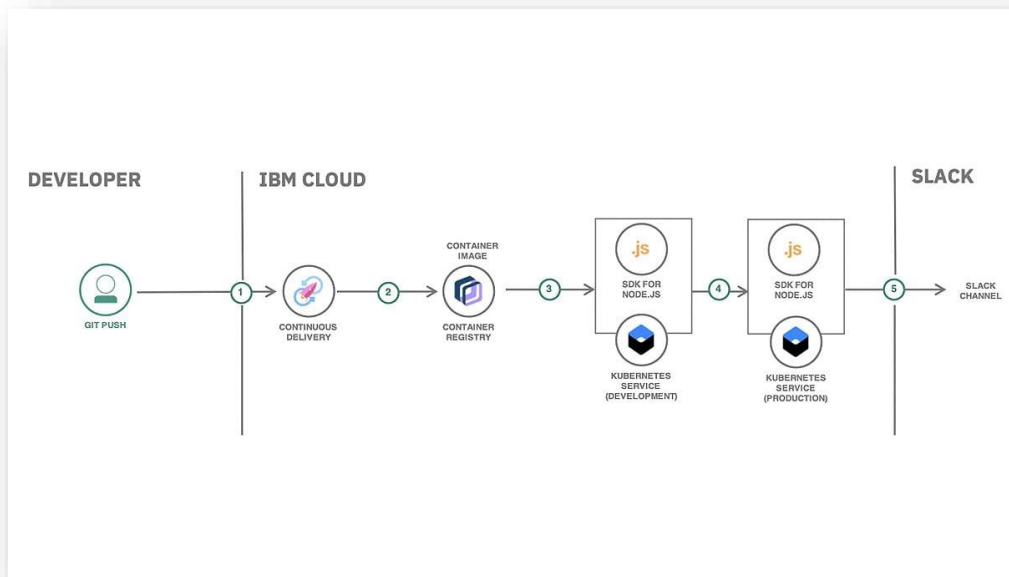
7. Set Up IBM Cloud DevOps Services:

- ✓ Sign in to IBM Cloud and navigate to the DevOps Services.
- ✓ Create a new toolchain.
- ✓ In the toolchain, add a Git repository as a source, connecting it to our GitHub repository.



8. Create a Build Pipeline:

- ✓ Within our IBM Cloud toolchain, create a build pipeline that includes a build stage for building our static site. Configure the build pipeline to use the appropriate build tools for our chosen static site generator (e.g., Jekyll, Hugo).

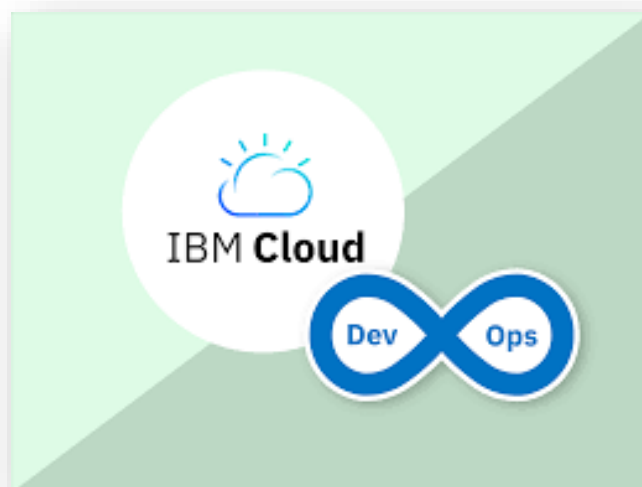


9. Configure Deployment Options:

- ✓ In the build pipeline, set up deployment options. IBM Cloud provides integrations with various cloud storage services (e.g., IBM Cloud) where we can host our static website files.
- ✓ Configure the deployment to automatically deploy our built website files to the chosen cloud storage service when a new build is successful.

10. Deploying the Blog:

- ✓ Trigger the build pipeline to start the build process.



- ✓ Once the build is complete and successful, our blog will be automatically deployed to the cloud storage service we configured.

11. Accessing Static Web App:

We can access our static web app via a URL provided by our chosen cloud storage service or configure a custom domain name for our blog if needed.

By following these steps, we'll have successfully set up a static web app using IBM Cloud, incorporated a static site generator to manage our content, and automated the build and deployment processes for our blog. Our blog will be accessible online, and we can easily update and manage the content using the site generator.

