

**United Institute of Technology**

**7145**

**FINAL PROJECT SUBMISSION**

**Personal Blog using IBM Cloud Static Web Apps**



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## **Problem Statement:**

Create a personal travel blog hosted on IBM Cloud Static Web Apps. Share your travel adventures, tips and Captivating photos with the world. Use IBM Cloud static Web apps to easily update your blog and document Your journey. Inspire others to explore the beauty of the World and forge unforgettable memories.

## **Abstract:**

Our Aim is to create a personal blog on Traveling, by using IBM Cloud Static Web Apps. Which can be useful to update our Adventures, tips, photos, videos, and to Share the full experience on voyage.

## **Introduction:**

A personal blog using IBM Cloud Static Web Apps is a web-based platform created for individuals to share their personal thoughts, experiences, knowledge, and insights with an online audience. It is hosted and powered by IBM's Static Web Apps service, which allows bloggers to create and maintain their websites easily without the need for complex server infrastructure.

The IBM Cloud platform combines platform as a service (PaaS) with infrastructure as a service (IaaS) to provide an integrated experience. The platform scales and supports both small development teams and organizations, and large enterprise businesses.

Hosting a static website on IBM Cloud Object Storage starts with creating a bucket and configuring it for public access. Then, upload website content to bucket. Finally, configure the website to use documents as an index for the site and to potentially display errors.

Creating a personal travel blog using IBM Cloud Static Web Apps is a great way to share your travel experiences with the world.

## Tools Used:

Text Editor or IDE: Use code editors like Visual Studio Code, Sublime Text, to write and edit HTML and CSS code.

## Flow of Website development:

1. Information gathering
2. Planning
3. Design
4. Content writing and
5. Coding
6. Testing, review and launch
7. Maintenance and regular updating



## **Purpose of creating personal Blog using IBM Cloud Static Web Apps:**

**Customization:** Design blog to reflect unique style and content. IBM Cloud provides tools for customizing websites to our liking.

**Reliability :** IBM Cloud's infrastructure ensures that blog remains available to users with minimal downtime.

**Security:** IBM Cloud offers robust security features to protect website and visitor data.

**Analytics:** Access to data and analytics tools can help track blog's performance and audience engagement.

**Content Management:** IBM Cloud provides content management systems (CMS) that make it easy to create and publish travel content.

**Global Reach:** Leverage IBM Cloud's global data centres for fast loading times and accessibility worldwide.

**Community and Support:** IBM Cloud has an active user community and support resources to help with any technical issues.

Ultimately, using IBM Cloud for travel blog offers a reliable and customizable platform that can help to share travel experiences effectively with audience.

## **Steps to create Personal Blog using IBM Cloud Static Web Apps:**

### **1. Sign Up for IBM Cloud:**

Sign up for an IBM Cloud account at <https://cloud.ibm.com/>. Go with the free tier account.

### **2.Install the IBM Cloud CLI:**

Download and install the IBM Cloud Command Line Interface (CLI) on local machine. Using installation instructions on the IBM Cloud website.

### **3.Create a Static Web App:**

Use the IBM Cloud CLI to create a new Static Web App. Specify the name of the app, the location of code repository (e.g., GitHub), and other details. Here's a sample command:

```
ibmcloud app create my-travel-blog --staticweb
```

#### **4.Set Up Your Code Repository:**

Ensure travel blog code is hosted in a code repository, such as GitHub. IBM Cloud Static Web Apps typically work well with repositories that contain HTML, CSS, JavaScript, and other static files.

#### **5.Connect Your Code Repository:**

Connect the code repository to IBM Cloud Static Web App using the following command: `ibmcloud app githubrepo-enable`

#### **6.Configure Build and Deploy Settings:**

Configure build and deploy settings in the IBM Cloud Console. Specify the branch to deploy, build commands (if needed), and other settings.

#### **7.Deploy Your Travel Blog:**

Trigger the deployment of travel blog by pushing changes to connected repository. Once the deployment is successful, blog will be live.

#### **8.Configure Domain and DNS (Optional):**

If needed custom domain, configure it to point to IBM Cloud Static Web App. This involves setting up DNS records to redirect traffic to app.

#### **9.Customize Your Blog:**

Edit HTML, CSS, and JavaScript files to customize the appearance and functionality of travel blog. Add blog posts, images, and other content as needed.

#### **10.Testing and Monitoring:**

Test the blog to ensure it works correctly. Also set up monitoring and analytics to track visitor traffic and performance.

#### **11.Regular Maintenance:**

Keep the blog updated with fresh content and ensure that IBM Cloud services (such as the Static Web App) are running smoothly.

## **Steps to progress:**

### **1.Choose a Blogging Platform:**

There are several blogging platforms available like WordPress, Ghost, or Jekyll. Choose one that fits the requirements.

### **2.Purchase a Domain Name:**

Register a domain name for the blog. IBM also provides domain registration Services.

### **3.Select IBM Cloud Service:**

IBM offers various cloud services like IBM Cloud Foundry or IBM Cloud Kubernetes Service. Choose the one that suits technical expertise and Requirements. Sign up for IBM Cloud services on their website.

### **4.Set Up a Database (if required):**

If the blogging platform requires a database, set it up. IBM offers various Databases like Db2 and MongoDB on its cloud platform.

### **5.Configure Web Server:**

Configure the web server (e.g., Nginx, Apache) if chosen platform requires it. IBM Cloud services might provide load balancers and other networking tools to assist With this.

### **6.Install and Configure Blogging Platform:**

Install chosen blogging platform on the server. Follow the platform-specific Installation and configuration instructions. There might be needed to upload the Blog files via FTP or through the cloud console.

### **7. Customize the Blog:**

Customize the blog according to the preferences. This includes choosing a theme, Setting up categories, and configuring any necessary plugins or extensions.

### **8. Secure the Blog:**

Implement security measures such as SSL certificates for HTTPS, firewall Configurations, and regular security updates to protect the blog from Vulnerabilities.

### **9. Backup and Monitoring:**

Set up regular backups of the blog and implement monitoring solutions to track Its performance and uptime. IBM Cloud services might offer built-in monitoring Tools.

### **10. Launch the Blog:**

Once everything is set up and configured correctly, launch the blog and make it accessible to the public.

## **Security Features:**

1. HTTPS
2. Authentication
3. Protection Against DDoS Attacks
4. Static Files Security



## Source Code

### Web Page Code:

```
<!DOCTYPE html>

<html>

<head>

  <title>Travel Website</title>

  <link rel="preconnect" href="https://fonts.gstatic.com">

  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300&display=swap"
rel="stylesheet">

  <link rel="stylesheet" type="text/css" href="./style.css">

</head>

<body>

  <div class="navbar">

    <div class="logo">

      <h1>Travel</h1>

    </div>

    <div class="menu">

      <ul>

        <li><a href="#">HOME</a></li>

        <li><a href="/travel/html.html">TRAVEL STORIES</a></li>

        <li><a href="/photogallery.html">TRAVEL TIPS</a></li>

        <li><a href="/sidebar/index.html">PHOTO GALLERY</a></li>

        <li><a href="/map.html">MAP</a></li>

        <li><a href="/contact.html">CONTACT</a></li>

      </ul>

    </div>

  </div>

</body>

</html>
```



```
<li><a href="#">ABOUT ME</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="signup">
```

```
<a href="#">Sign Up</a>
```

```
</div>
```

```
</div>
```

```
<div class="body">
```

```
<div class="heading">
```

```
<h1>Travel With Us</h1>
```

```
<br>
```

```
<p>ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod
```

```
Tempor incididunt ut labore et dolore magna aliqua. </p>
```

```
<br>
```

```
<br>
```

```
<a href="#">Learn More</a>
```

```
</div>
```

```
<div class="tours">
```

```
<div class="places">
```

```
<h2>Australia</h2>
```

```

```

```
<br>
```

```
<br>
```

```
<a href="#">Book Now 15% OFF</a>
```

```
</div>
```

```
<div class="places">
```

```
<h2>New York</h2>
```



<br>

<br>

<a href="#">Book Now 20% OFF</a>

</div>

<div class="places">

<h2>Thailand</h2>



<br>

<br>

<a href="#">Book Now 25% OFF</a>

</div>

</div>

</div>

<div class="footer">

<a href="#">Copyright</a>

<a href="#">Terms and Conditions</a>

<a href="#">Privacy Policy</a>

<a href="#">Cookies</a>

<a href="#">Complaints</a>

</div>

</body>

</html>

## Contact Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

</head>

<body>

  <!DOCTYPE html>

<html lang="en">


<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Bulma Contact Form</title>

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bulma@0.9.3/css/bulma.min.css">

</head>


<body>

  <section class="section">

    <div class="container">

      <h1 class="title">fabform.io bulma form</h1>

      <div class="columns">

        <div class="column is-half">

          <form action="https://fabform.io/f/{insert-your-form-id}" method="post">

            <div class="field">
```

```
<label class="label">Name</label>
<div class="control">
  <input class="input" type="text" placeholder="Your Name">
</div>
</div>
<div class="field">
  <label class="label">Email</label>
  <div class="control">
    <input class="input" type="email" placeholder="Your Email">
  </div>
</div>
<div class="field">
  <label class="label">Message</label>
  <div class="control">
    <textarea class="textarea" placeholder="Your Message"></textarea>
  </div>
</div>
<div class="field">
  <div class="control">
    <button class="button is-primary">Submit</button>
    <p>Powered by <a href="https://fabform.io" target="_blank">fabform.io</a></p>
  </div>
</div>
</form>
</div>
</div>
```

```
</section>
```

```
</body>
```

```
</html>
```

```
</body>
```

```
</html>
```

## Mapping Code:

```
<!-- <script src=https://www.amcharts.com/lib/3/ammap.js type="text/javascript"></script>
```

```
<script src=https://www.amcharts.com/lib/3/maps/js/worldHigh.js  
type="text/javascript"></script>
```

```
<script src=https://www.amcharts.com/lib/3/themes/dark.js type="text/javascript"></script>
```

```
<div id="mapdiv" style="width:100%; height:100vh;"></div>
```

```
<script type="text/javascript">
```

```
Var map = AmCharts.makeChart("mapdiv",{
```

```
Type: "map",
```

```
Projection: "mercator",
```

```
panEventsEnabled : true,
```

```
backgroundColor : "#535364",
```

```
backgroundAlpha : 1,
```

```
zoomControl: {
```

```
zoomControlEnabled : true
```

```
},
```

```
dataProvider : {
```

```
map : "worldHigh",
```

```
getAreasFromMap : true,  
areas :  
[  
  {  
    "id": "CA",  
    "showAsSelected": true  
  },  
  {  
    "id": "US",  
    "showAsSelected": true  
  },  
  {  
    "id": "AE",  
    "showAsSelected": true  
  },  
  {  
    "id": "IN",  
    "showAsSelected": true  
  },  
  {  
    "id": "MY",  
    "showAsSelected": true  
  },  
  {  
    "id": "QA",  
    "showAsSelected": true  
  },  
]
```

```
{
  "id": "TH",
  "showAsSelected": true
},
{
  "id": "SG",
  "showAsSelected": true
}
],
areasSettings : {
  autoZoom : true,
  color : "#B4B4B7",
  colorSolid : "#84ADE9",
  selectedColor : "#84ADE9",
  outlineColor : "#666666",
  rollOverColor : "#9EC2F7",
  rollOverOutlineColor : "#000000"
}
});
```

</script>

→

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

```
<title>Document</title>
</head>
<body>
  <iframe
src=https://www.google.com/maps/embed?pb=!1m14!1m12!1m3!1d15651.33692213242!2d77.57339365!3d11.27359315!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!5e0!3m2!1sen!2sin!4v1697622093176!5m2!1sen!2sin width="100%" height="800px" style="border:0;"
allowfullscreen="" loading="lazy" referrerpolicy="no-referrer-when-downgrade"></iframe>
</body>
</html>
```

## CSS Code:

```
*{
  Padding: 0px;
  Margin: 0px;
  Box-sizing: border-box;
  List-style: none;
  Font-family: 'Poppins', sans-serif;
}

.navbar{
  Width: 100%;
  Height: 80px;
  Background-color: #fee;
  Display: flex;
  Justify-content: space-around;
  Align-items: center;
  Color: #000;
```



```
}  
.menu ul{  
    Display: flex;  
    Align-items: center;  
}  
.menu ul li a{  
    Text-decoration: none;  
    Color: #000;  
    Padding: 5px 12px;  
    Letter-spacing: 2px;  
    Font-size: 18px;  
}  
.menu ul li a:hover{  
    Border-bottom: 4px solid #000;  
    Transition: 0.4s;  
}  
.signup a{  
    Text-decoration: none;  
    Color: #000;  
    Font-size: 18px;  
    Font-weight: bold;  
    Border-radius: 12px;  
    Padding: 12px 30px;  
    Border: 2px solid #ff0000;  
}  
.signup a:hover{  
    Background-color: red;
```

```
    Transition: 0.6s;
}

.body{
    Width: 100%;
    Height: 90vh;
    Display: flex;
    Justify-content: space-around;
    Align-items: center;
    Background-image: linear-gradient(rgba(0,0,0,0.50),rgba(0,0,0,0.50)),url(img1.jpg);
    Background-position: center;
    Background-size: cover;
}

.heading{
    Width: 30%;
    Text-align: center;
    Color: #fff;
}

.heading h1{
    Font-size: 40px;
}

.heading a{
    Text-decoration: none;
    Color: #000;
    Font-size: 25px;
    Font-weight: bold;
    Border-radius: 45px;
    Padding: 14px 50px;
```

```
    Background-color: #fff;
}

.heading a:hover{
    Letter-spacing: 3px;
    Transition: 0.6s;
}

.tours{
    Width: 70%;
    Display: flex;
    Justify-content: space-around;
}

.places{
    Display: inline;
    Text-align: center;
    Border-radius: 12px;
}

.places h2{
    Color: red;
    Font-size: 35px;
    Letter-spacing: 3px;
    Border-radius: 1px;
    Padding: 30px 30px;
    Background-color: #000;
}

.places a{
    Text-decoration: none;
    Color: red;
```

```
    Font-weight: bold;
    Font-size: 18px;
    Border-radius: 12px;
    Padding: 12px 30px;
    Background-color: #fff;
}

.places a:hover{
    Background-color: #000;
    Letter-spacing: 3px;
    Transition: 0.6s;
}

.footer{
    Width: 100%;
    Height: 50px;
    Display: flex;
    Justify-content: space-around;
    Align-items: center;
}

.footer a{
    Text-decoration: none;
    Color: green;
    Font-size: 18px;
    Font-weight: bold;
}

.footer a:hover{
    Text-decoration: underline;
    Transition: 0.4s;
```

```
}
```

## Photo Gallery Code:

```
@import  
url(https://fonts.googleapis.com/css2?family=EB+Garamond:ital,wght@0,400;0,500;0,600;1,400;1,500;1,600&display=swap);
```

```
Body {  
  
    Max-width: 800px;  
  
    Margin: 0 auto;  
  
    Background: #e7dfcf;  
}
```

```
Section {  
  
    Margin: 80px 0;  
  
    Display: grid;  
  
    Grid-template-areas: "title title img3 img3"  
                        "img2 img1 img3 img3";  
  
    Grid-gap: 8px;  
}
```

```
H2 {  
  
    Grid-area: title;  
  
    Color: #111;  
  
    Font-size: 120px;  
  
    Font-family: "EB Garamond", serif;
```

```
Font-weight: normal;
Margin: 0 0 20px 0;
Position: relative;
z-index: 1;
line-height: 1;
mix-blend-mode: hard-light;
max-width: 240px;
```

```
}
```

```
H2 span {
  Font-weight: bold;
}
```

```
H2::after {
  Display: none;
  Content: "";
  Height: 8px;
  Border-radius: 30px;
  Width: 70%;
  /* display: block; */
  Background: currentColor;
  Transition: 0.5s ease;
}
```

```
H2: hover::after {
  Transform: translateX(50%);
}
```

```
Section img:nth-child(4) {
```

```
    Grid-area: img3;
```

```
    Aspect-ratio: 3 / 4;
```

```
}
```

```
Section img:nth-child(1) {
```

```
    Grid-area: img1;
```

```
}
```

```
Section img:nth-child(2) {
```

```
    Grid-area: img2;
```

```
}
```

```
Section img {
```

```
    Aspect-ratio: 4 / 3;
```

```
}
```

```
Img {
```

```
    Max-width: 100%;
```

```
    Width: 100%;
```

```
    Height: 100%;
```

```
    Border-radius: 5px;
```

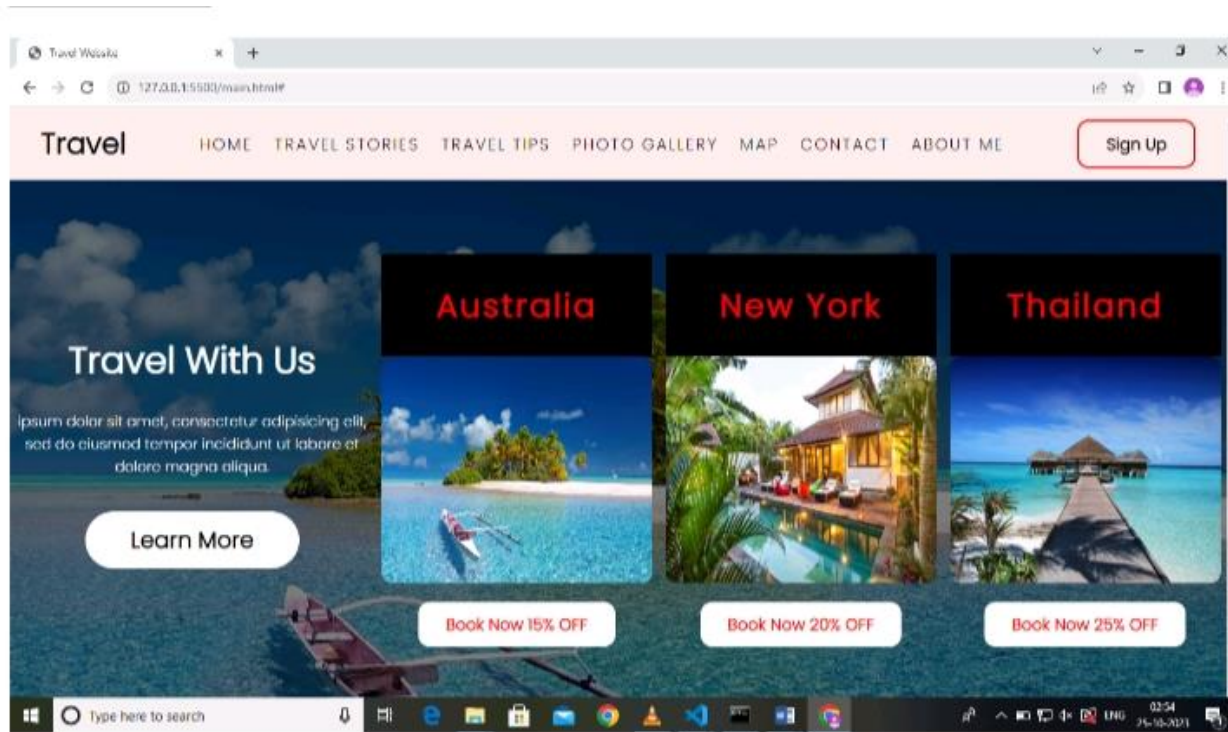
```
    Object-fit: cover;
```

```
    Transition: 0.3s ease;
```

```
    Box-shadow: 0 1px 3px 0 rgb(0 0 0 / 0.1), 0 1px 2px -1px rgb(0 0 0 / 0.1);
```

```
}
```

## OUTPUT:



## Conclusion:

The successful completion of the personal travel blog using IBM Cloud Static Web Apps marks a significant achievement. This project showcases the ability to leverage modern cloud technologies for hosting and serving a static website efficiently. It also demonstrates the commitment to sharing the travel experiences with the world in an accessible and visually appealing manner. With this project, not only created a platform to document the adventures but also acquired valuable skills in web development and cloud computing. As we continue to update and expand the travel blog, we'll be able to reach a wider audience and leave a lasting digital footprint of the journeys.