



J.J.COLLEGE OF ENGINEERING AND TECHNOLOGY

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(Sowdambikaa Group of Institutions)



***personal blog on IBM cloud
static web apps***

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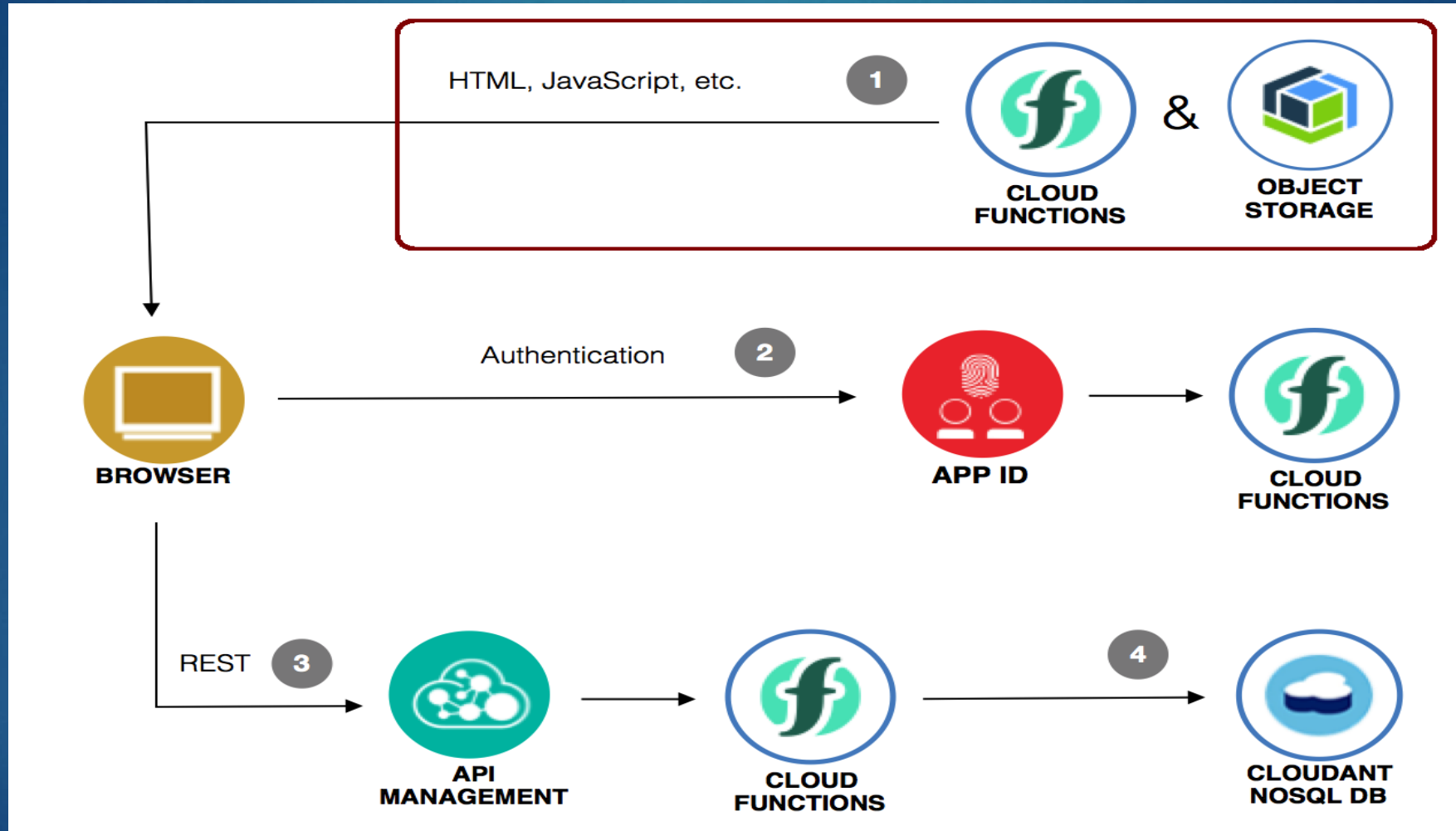
PROBLEM DESCRIPTION :

- IBM Cloud Static Web Apps offers a streamlined process to deploy and host static websites or web applications.
- It's ideal for projects like personal blogs, as they primarily consist of static content.
- When combined with a headless CMS or a static site generator, you can create a dynamic-feeling site that's efficiently hosted and scaled by IBM Cloud
- A cloud static web app is a web application that serves static web pages and assets (HTML, CSS, JavaScript, images) from cloud-based hosting services

STEP BY STEP PROCEDURE:

- **Choose Your Blogging Platform:** Start with a static site generator like Jekyll, Hugo, or Gatsby. These tools help generate static HTML, CSS, and JavaScript files from your blog posts and templates.
- **Connect to a Repository:** IBM Cloud can integrate with platforms like GitHub or GitLab. Push your blog's source code and static site generator configuration to one of these platforms.
- **Deployment Configuration:** When setting up IBM Cloud Static Web Apps, specify the build and deploy process based on the static site generator you're using.
- **Domain Configuration:** If you have a custom domain, configure it in IBM Cloud to point to your static web app.
- **Enable HTTPS:** For security and better ranking on search engines, make sure to enable HTTPS for your blog.
- **Continuous Deployment:** One of the significant benefits of hosting on platforms like IBM Cloud Static Web Apps is the continuous deployment feature.
- **Add Additional Features:** While your blog is primarily static content, you might want to add dynamic functionalities like comments, search, or analytics.

DESIGNING DIAGRAM:



DESIGNING AND THINKING:

❑ Purpose & Theme:

- Define the objective of your blog: Is it a tech blog, travel diary, personal journal, etc.?
- Choose a visual theme that resonates with your blog's topic.

❑ Design & Layout:

- Use a responsive design to ensure accessibility across devices.
- Choose a clean, easily readable font and color palette.

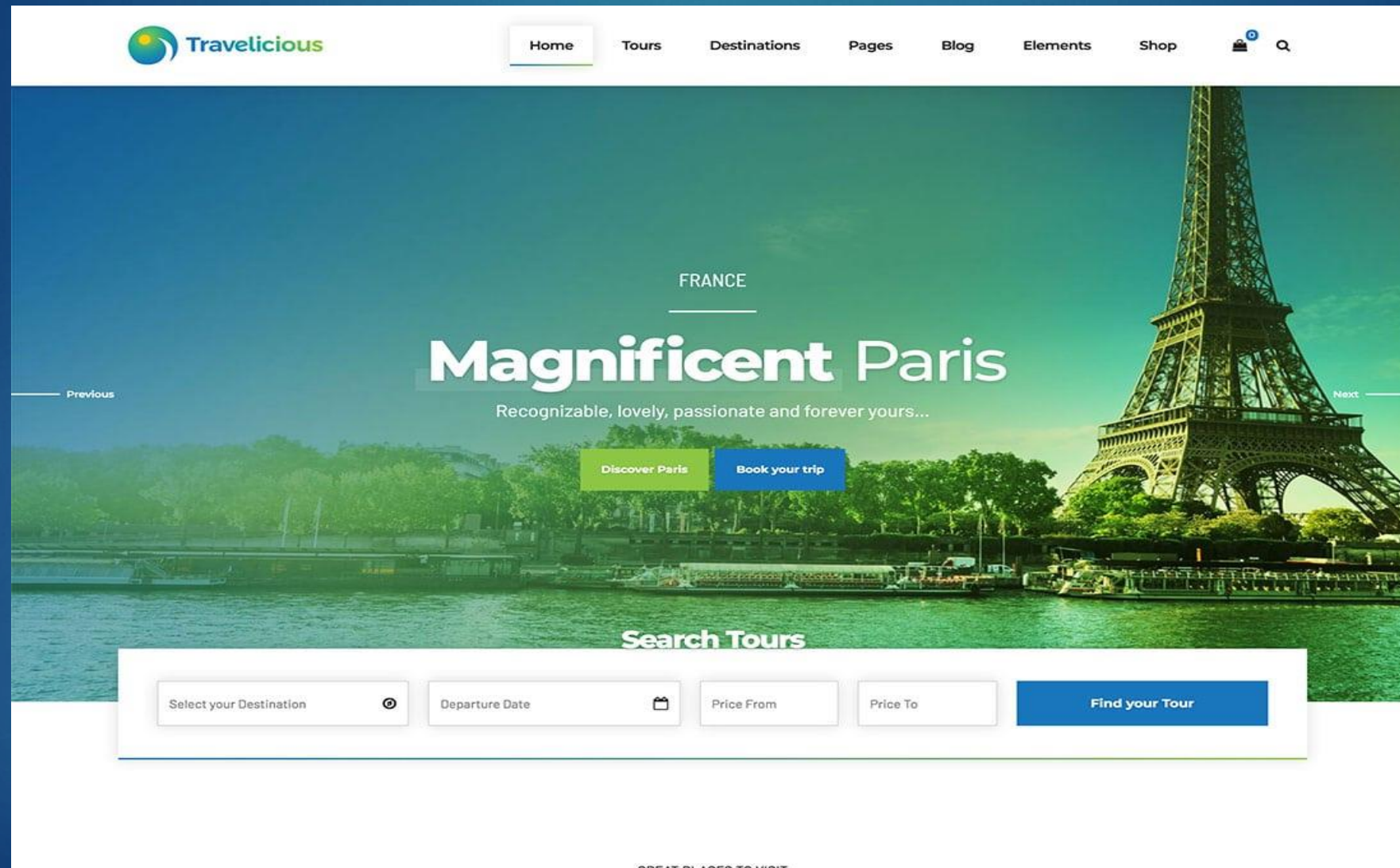
❑ Security:

- Ensure secure data practices by integrating IBM Cloud Identity and Access Management (IAM).
- Implement SSL for encrypted data transfer.

❑ Integration with IBM Cloud:

- Use IBM Cloud Object Storage to store images and ensuring fast loading times and scalability.
- Implement Continuous Integration and Continuous Delivery (CI/CD) pipelines using IBM Cloud's DevOps services for efficient deployment of updates.

WEBSITE STRUCTURE:



CODE FOR PERSONAL BLOG:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>My Personal Blog</title>
<style> body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  background-color: blue;
}
header {
  background-color: #333;
  color: #fff;
```

```
  text-align: center;
  padding: 20px;
}
h1 {
  margin: 0;
}
nav {
  background-color: black;
}
nav ul {
  list-style: none;
  padding: 0;
  margin: 0;
  text-align: center;
}
```

```
nav li {
  display: inline;
  margin: 10px;
}
.container {
  max-width: 800px;
  margin: 20px auto;
  background-color: blue;
  padding: 20px;
}
.post {
  margin-bottom: 30px;
}
```



```
</style>
</head>
<body>
  <header>
    <h1>My Personal Blog</h1>
  </header>
  <nav>
    <ul>
      <li><a href="#">Home</a></li>
      <li><a href="#">About</a></li>
      <li><a href="#">Contact</a></li>
    </ul>
  </nav>
  <div class="container">
    <div class="post">
```


```
<h2>First Blog Post</h2>
<p>Content of your first blog post goes here</p>
</div>
<div class="post">
  <h2>Second Blog Post</h2>
  <p>Content of your second blog post goes here</p>
</div>
</div>
</html>
```

EXPLANATION:

- This code includes a basic structure with a header, navigation menu, and two sample blog posts.
- You can expand the content and style according to your preferences.
- To create a more dynamic and feature-rich blog, consider using a content management system (CMS) like WordPress or a static site generator like Jekyll or Hugo.
- These tools provide more advanced features and flexibility for managing and customizing your blog.

CODE FOR CLOUD STATIC WEB APP:

```
<!DOCTYPE html>
<html>
<head>
  <title>My Static Web Page</title>
  <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
<header>
  <h1>Welcome to My Web Page</h1>
</header>
<nav>
<ul>
  <li><a href="/">Home</a></li>
```

```
<li><a href="about.html">About</a></li>
<li><a href="contact.html">Contact</a></li>
</ul>
</nav>
<main>
  <section>
    <h2>About Us</h2>
    <p>This is a simple static web page hosted in the cloud.</p>
  </section>
</main>
<footer>
  <p>&copy; 2023 My Web Page</p>
</footer>
<script src="script.js"></script>
</body>
</html>
```

EXPLANATION:

- In this html code you have a basic structure with a header, navigation, main content, and a footer.
- The CSS file is linked via the `<link>` tag.
- The JavaScript file is included at the bottom of the page.
- You can create your own `styles.css` and `script.js` files for styling and interactivity. Make sure to set up your bucket/container for static website hosting and configure permissions.

CONCLUSION:

- In conclusion, IBM Cloud Static Web Apps offer an efficient and reliable solution for hosting and managing your website.
- IBM Cloud Static Web Apps can simplify the hosting process, allowing you to focus on creating outstanding content and user experiences.
- Embrace the power of this platform to take your web projects to the next level and enjoy the benefits of scalability, flexibility, and a hassle-free deployment process.