

## **PHASE-2 SUBMISSION**

### **CLOUD APPLICATION DEVELOPMENT-GROUP 3**

#### **TEAM MEMBERS:**

SANJEEVI .B

SUGANESH .V

ADVAITH .A

## PROJECT TITLE:

### Personal Blog On IBM Cloud Static Web Apps

#### INTRODUCTION:

Our beacon of expression, the "Personal Blog on IBM Cloud Static Web Apps," emerges in the vast expanse of the internet. Here, ideas collide and creativity knows no bounds. In the digital realm's heart, we have carefully crafted a tapestry of words, images, and experiences. Within this sanctuary, personal narratives, profound insights, and artistic endeavors find their place.

#### 1. Project Planning and Setup:

- **Requirement Analysis:** Revisit the requirements of your personal blog and break them down into functional and technical requirements.
- **Technology Stack:** Choose appropriate technologies for frontend (HTML, CSS, JavaScript, frameworks like React or Vue.js) and backend (serverless functions, APIs) development.
- **Tools:** Set up tools like Git for version control, text editors or IDEs, and ensure you have an IBM Cloud account.
- **Architecture Design:** Plan the overall architecture including the structure of your static web app, data storage, and APIs if needed.

#### 2. Frontend Development:

- **Wireframing:** Create wireframes and prototypes of your blog's UI using tools like Figma or Adobe XD.
- **Responsive Design:** Ensure your blog is responsive, meaning it should work seamlessly across various devices and screen sizes.
- **Development:** Code the frontend using HTML, CSS, and JavaScript. Implement features like navigation menus, blog post layouts, and interactive elements.

#### 3. Backend Development :

- **Serverless Functions:** If you need dynamic functionality (like contact forms), implement serverless functions using IBM Cloud Functions or similar services.
- **Database Integration:** If you plan to store data, integrate a database service like IBM Cloudant or MongoDB.

#### 4. Content Creation:

- **Blog Posts:** Start creating content for your blog. Write and format blog posts, create images, and multimedia elements.
- **SEO Optimization:** Optimize your blog posts and website for search engines to improve visibility.

## 5. Integration and Testing:

- **Integration:** Integrate the frontend with any backend services. Ensure that data flows correctly between components.
- **Testing:** Perform extensive testing, including unit testing for functions, cross-browser testing, and responsiveness testing on different devices.
- **User Acceptance Testing (UAT):** Get feedback from potential users and make necessary improvements based on their feedback.
- 

## 6. Deployment:

- **Static Web App Deployment:** Use IBM Cloud Static Web Apps service to deploy your blog. Configure the build and deployment pipelines for automated deployment from your Git repository.
- **Domain Configuration:** If you have a custom domain, configure it to point to your deployed blog.

## 7. Monitoring and Optimization:

- **Monitoring:** Set up monitoring tools to track your blog's performance, including website traffic, errors, and user interactions.
- **Optimization:** Analyze the data from monitoring tools and optimize your blog for better performance, faster loading times, and improved user experience.

## 8. Security and Compliance:

- **Security:** Implement security best practices, including HTTPS, secure coding standards, and data encryption.
- **Compliance:** Ensure your blog complies with relevant regulations and laws, such as GDPR for user data protection.

## 9. Documentation and Maintenance:

- **Documentation:** Document your project, including the architecture, APIs (if any), and how to run the project locally.
- **Maintenance:** Plan for regular maintenance, updates, and bug fixes. Provide a way for users to contact you for support or feedback.

## 10. Launch and Promotion:

- **Launch:** Officially launch your personal blog. Announce it on social

media, forums, and other relevant platforms.

- **Promotion:** Use digital marketing techniques to promote your blog, such as content marketing, social media marketing, and search engine optimization (SEO).