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Cloud Application Development- Group 1

Project 1: Personal Blog on IBM Cloud Static Web Apps

Phase 1: Problem Definition and Design Thinking

ABSTRACT

In pursuit of creating a personal travel blog hosted on IBM Cloud Static Web Apps, this project aims to inspire and inform readers about diverse travel experiences. The multifaceted problem involves content planning, creation, website design, IBM Cloud infrastructure setup, and efficient content management. To tackle these challenges, our approach focuses on structured content organization, engaging narratives, visually appealing design, secure cloud hosting, and user-friendly content management systems. This project's success relies on effective execution, a well-defined timeline, resource allocation, budget estimation, and a proactive risk mitigation strategy, all facilitated by seamless communication and collaboration among team members, where applicable.

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CHAPTER 1 : INTRODUCTION

The project's objective is to develop a personal travel blog hosted on IBM Cloud Static Web Apps. This blog will serve as a platform for sharing travel experiences, tips, and captivating photographs, with the aim of inspiring and informing readers about various travel destinations. The project entails several key components:

Understanding the Problem:

The problem at hand involves the following main aspects:

➢ **Content Planning:** The need to structure the blog effectively, organizing content into sections that include travel stories, travel tips, photos, and possibly a map of visited places.

➢ **Content Creation:** Creating engaging and informative travel content, including well-written stories, practical travel tips, and visually appealing photographs.

➢ **Website Design:** Designing a user-friendly and visually appealing layout for the blog using HTML, CSS, and possibly JavaScript for interactive elements. Ensuring that the design is responsive for various devices is crucial.

➢ **IBM Cloud Setup:** Setting up the necessary infrastructure on IBM Cloud to host the travel blog, which includes creating a Static Web App, configuring domain settings, and ensuring secure communication via SSL certificates.

➢ **Content Management:** Selecting an efficient content management system (CMS) or static site generator to simplify content updates and management.

CHAPTER 2 - CONTENT PLANNING

OBJECTIVE:

The goal of content planning is to create a structured and engaging travel blog that effectively communicates the project's vision and provides valuable information to readers. This involves organizing the blog's content into well-defined sections and developing a clear strategy for content creation and publication.

CONTENT PLANNING APPROACH:

➢ **Home Page:** The entry point to the blog, featuring a brief introduction and highlights of recent posts.

➢ **Travel Stories:** Section dedicated to sharing detailed travel narratives and experiences.

➢ **Travel Tips:** A resourceful section offering practical travel advice, recommendations, and insights.

➢ **Photos:** A gallery showcasing captivating photographs from various journeys.

➢ **About Me:** An author's profile or biography, establishing a personal connection with readers.

➢ **Possibly a Map:** Consider including an interactive map displaying the places visited, creating an immersive experience.

CHAPTER 3 - CONTENT CREATION

OBJECTIVE:

content creation is a crucial aspect of a travel blog, and it involves producing engaging travel stories, practical tips, and captivating photographs. Below is a detailed approach for content creation for your travel blog:

CONTENT CREATION APPROACH:

➢ **Research and Planning:**Start by researching your target audience, their interests, and the types of travel content that resonate with them. Develop a content strategy based on your findings.

➢ **Travel Experiences and Stories:**Focus on storytelling techniques to create engaging narratives, such as introducing conflict, setting the scene, and building suspense.

➢ **Travel Tips and Guides:**Create informative guides on topics like packing tips, budget travel, safety precautions, and cultural etiquette. Offer insider insights into specific destinations, including hidden gems, local cuisine, and off-the-beaten-path experiences

➢ **Photography and Visual Content:**Curate visually stunning photographs that complement your written content and engage your audience. Capture high-quality images during your travels, paying attention to composition, lighting, and storytelling through visuals.

➢ **Engagement and Interaction:**Encourage reader engagement and interaction with your content. Respond promptly to comments and messages from your readers to foster a sense of community.

CHAPTER 4 - WEBSITE DESIGN

OBJECTIVE:

The web design phase aims to create an appealing and user-friendly layout for the travel blog, enhancing the overall user experience. This section covers the visual and interactive aspects of the blog's design.

WEB DESIGN APPROACH:

➢ **Design Principles:** Define the blog's color palette and typography to reflect the travel theme.Specify design elements such as buttons, navigation bars, and icons.

➢ **Responsive Design:** Describe how the design will adapt to different screen sizes and orientations. Discuss responsive design frameworks or libraries used (e.g., Bootstrap, Foundation).

➢ **User Interface (UI) Design:** Provide wire-frames or mock-ups for key pages (e.g., homepage, article page). Highlight the placement of key features (e.g., navigation menus, search bar).

➢ **Interactive Elements:** Detail the use of JavaScript for interactive components (e.g., image galleries, maps). Explain how user interactions (e.g., clicks, scrolls) trigger these elements.

➢ **Performance Optimization:** Optimize the blog's performance for fast loading and responsiveness. Mention techniques employed for image optimization and lazy loading.

➢ **Cross-Browser Compatibility:** Ensure that the blog works consistently across various web browsers. Document any browser-specific CSS or JavaScript adjustments made.

CHAPTER 5 - IBM CLOUD SETUP

OBJECTIVE:

To establish an IBM Cloud account, providing the foundation for hosting the travel blog.

IBM CLOUD SETUP APPROACH:

➢ **Account Registration:** If you do not have an IBM Cloud account, visit the IBM Cloud website and sign up for a free or paid account based on your project's needs.

➢ **Billing Information:** Provide billing information and select a subscription plan if necessary. Ensure that payment methods are set up correctly.

➢ **Dashboard Access:** Once the account is created and verified, access the IBM Cloud dashboard, where you'll manage your resources and services.

➢ **Static Web App Creation:** To create a Static Web App on IBM Cloud for hosting the travel blog.

➢ **Domain Configuration:** To configure the domain settings for your travel blog.

➢ **Security and Monitoring:** To enhance the security of your travel blog hosted on IBM Cloud and implement monitoring for performance and uptime.

CHAPTER 6 - CONTENT MANAGEMENT

OBJECTIVE:

To choose a suitable content management system (CMS) or static site generator for efficient content updates.

CONTENT MANAGEMENT APPROACH:

➢ Evaluate available CMS options (e.g., WordPress, Hugo, Jekyll) based on project requirements.

➢ Install and configure the chosen CMS.

➢ Provide training (if needed) on content management to ensure ease of use.

CHAPTER 7 - RESOURCES NEEDED

OBJECTIVE:

List the resources needed for each task, including web development tools, CMS software, hosting expenses etc.

➢ **Web Development Tools:** Text editors, code version control systems (e.g., Git), design software (e.g., Adobe Creative Suite), and a suitable integrated development environment (IDE).

➢ **CMS or Static Site Generator:** Depending on your choice, the necessary software for content management or site generation.

➢ **IBM Cloud Account:** Required for hosting the blog on IBM Cloud Static Web Apps.

➢ **Domain Name:** Registering a domain name for your blog.

➢ **IBM Cloud Subscription:** Consider the cost of the cloud service subscription, which may depend on usage and resources required.

➢ **Server Resources:** Assess the server resources needed, such as storage, bandwidth, and compute power.

CHAPTER 8 - CONCLUSION

This document outlines the problem statement and a high-level design plan for the creation of a personal travel blog hosted on IBM Cloud Static Web Apps. The success of this project will depend on effective content planning, creation, web design, IBM Cloud setup, and content management. Regular communication and collaboration among team members will be essential for a successful outcome.