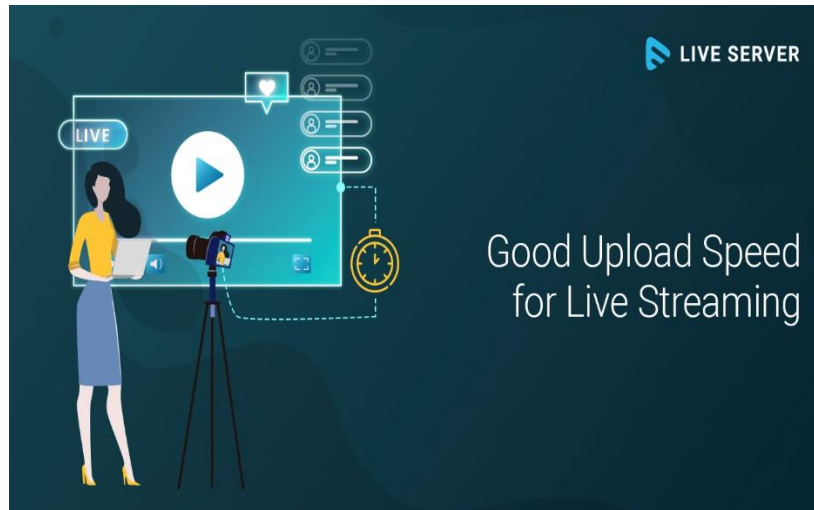


Media Streaming with Cloud Video Streaming



Submitted by

H. Aaliya Samira

P. Anitha

S. Deepa

S. Devisri

R. Dharanisri

Introduction

Project Title: Media Streaming Platform with Cloud Video Integration.

Project Objective: Create a platform that enables users to upload, share, and watch videos, integrating IBM Cloud Video Streaming for high-quality playback.

Project Overview

Design Thinking Process: Explain the design approach, problem identification, ideation, and prototyping.

Target Audience: Define the target users, their characteristics, and what they expect from the platform.

Features and Functionality

User Authentication: Describe how users create accounts and log in securely.

Video Upload: Explain the process for users to upload videos and how video data is stored and processed.

Video Streaming Integration: Detail the integration with IBM Cloud Video Streaming for seamless playback.

User Profiles: Describe how users can manage their profiles and content.

Content Discovery: Explain how users can discover new videos and explore content.

User Interaction: Detail how users can engage with content, including likes, comments, and sharing.

Content Moderation: Explain how content adherence to community guidelines is maintained.

Scalability and Performance: Describe how the platform ensures optimal performance under high traffic.

Testing and Quality Assurance: Explain how the platform is tested for bugs and performance.

User Interface Design

User Interface Elements: Provide an overview of the platform's UI components.

Wireframes and Mock-ups: Include visual representations of key screens.

User Experience (UX) Design: Describe how the UI design enhances the user experience.

Video Upload Process

Video Validation: Explain how the platform ensures that uploaded videos meet specifications.

Video Processing and Encoding: Describe the process of converting videos into suitable streaming formats.

Video Storage: Explain how and where uploaded videos are securely stored.

Streaming Integration

IBM Cloud Video Streaming: Detail the integration process with IBM Cloud Video Streaming services.

Streaming Server Setup: Explain the setup for video streaming on the platform.

Immersive Streaming Experience

Adaptive Streaming: Describe how the platform adjusts video quality based on user internet speed.

Content Discovery and Recommendation: Explain how users discover new content.

User Interaction and Engagement: Detail how users can interact with content.

Content Moderation: Describe how the platform maintains content quality.

Analytics and Monitoring: Explain how user behaviour and video performance are monitored.

Development Phases

Project Planning: Explain the initial project planning, including requirements gathering and project timeline.

Development Phases: Outline the key phases of development, including design, development, testing, and deployment.

Challenges and Solutions: Detail any challenges faced during development and how they were resolved.

Lessons Learned: Reflect on what worked well and what could be improved for future projects.

Conclusion

Project Outcomes: Summarize the achievements and outcomes of the project.

Future Improvements: Mention any future enhancements or features that could be added.

Acknowledgments: Thank individuals or organizations that contributed to the project.

Appendices

Code Samples: Include relevant code snippets or files.

Screenshots: Add screenshots of key platform features.

References: List any resources, tools, or frameworks used in the project.

This project documentation should be structured for clarity, with each section providing a comprehensive overview of the project's objectives, design, development, and features. It serves as a reference for stakeholders, developers, and anyone interested in understanding the project in details