Media Streaming with IBM Cloud Video Streaming

Phase 3: Development Part 1

In this part you will begin building your project. Start building the virtual cinema platform using IBM Cloud Video Streaming. Define the platform's features and design an intuitive user interface. Set up user registration and authentication mechanisms to ensure secure access to the platform.

Agenda

- Introduction: Briefly explain the purpose and context of the presentation.
- Platform Features: Discuss the key features of your virtual cinema platform.
- User Interface Design: Present the UI design principles and layout for your platform.
- User Registration and Authentication: Explain the steps taken to ensure secure access to the platform.
- Technology Stack: Outline the technology stack you've chosen for development.
- Front-end Development: Discuss the tools, languages, and frameworks used for the front-end development.
- Back-end Development: Describe the technologies and languages for the back-end development.
- Databases and Data Security: Explain the database choices and data security measures.
- IBM Cloud Integration: Discuss how IBM Cloud Video Streaming is integrated into your platform.
- Hosting and Deployment: Explain the hosting platform and deployment methods.
- Development Progress: Provide an update on the current status of development, including any challenges and successes.
- Next Steps (Part 2): Discuss what will be covered in the next part of the development phase.
- Conclusion: Summarize the key points and the importance of the project.
- Questions and Discussion: Invite questions and open the floor for discussion.
- Contact Information: Provide your contact details for further inquiries.
- Thank You: Express appreciation for the audience's time and attention.

Platform Features

Real-time Streaming

Enjoy seamless streaming of movies with high-quality audio and video in real time.

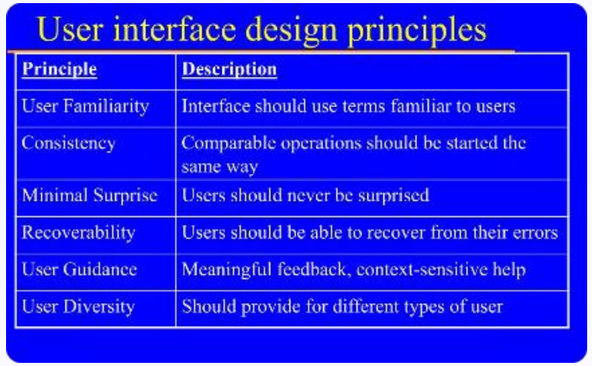
On-demand Library

Access a vast library of movies and watch them at your convenience.

Social Interaction

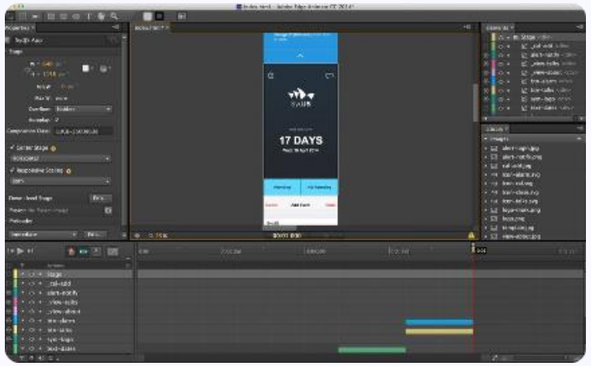
Connect with friends, share recommendations, and discuss your favorite movies.

User Interface Design



User interface design principles

Principle	Description
User Familiarity	Interface should use terms familiar to users
Consistency	Comparable operations should be started the same way
Minimal Surprise	Users should never be surprised
Recoverability	Users should be able to recover from their errors
User Guidance	Meaningful feedback, context-sensitive help
User Diversity	Should provide for different types of user



Intuitive Navigation

Create a user-friendly interface with intuitive navigation for seamless browsing.

Clean and Modern Design

Incorporate a clean and modern design that enhances the user experience.

Responsive Layout

Design a responsive layout that adapts to various devices for optimal viewing.

User Registration and Authentication

1

User Registration

Implement user registration with email verification for secure account creation.

2

Authentication Mechanisms

Utilize password hashing and encryption techniques to ensure secure login.

3

Two-Factor Authentication

Add an extra layer of security with two-factor authentication for user accounts.

Technology Stack

1 ***Front-end***

HTML, CSS, JavaScript, React

2 ***Back-end***

Node.js, Express.js, MongoDB

3 ***Cloud Integration***

IBM Cloud, IBM Cloud Video Streaming

Front-end Development

1 ***Tools***

Code Editor, Version Control (Git)

2 ***Languages***

HTML, CSS, JavaScript

3 ***Frameworks***

React, Bootstrap

Back-end Development

1 ***Technologies***

Node.js, Express.js

2 ***Languages***

JavaScript

3 ***Database***

MongoDB

Databases and Data Security

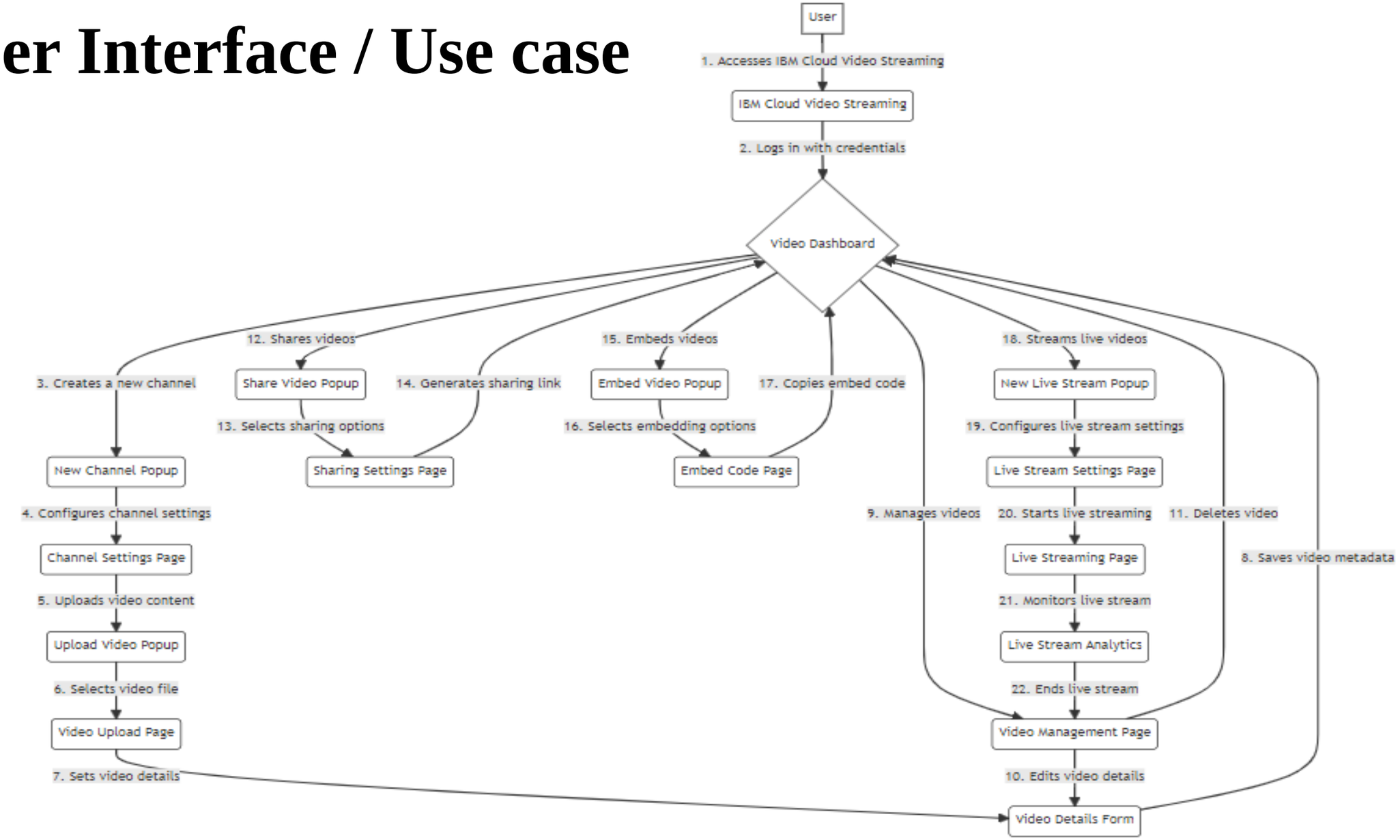
Database Choices

MongoDB for its flexibility and scalability.

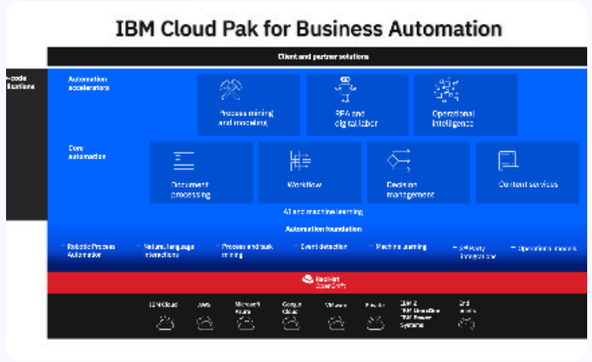
Data Security Measures

Data encryption, access controls, and regular security audits.

User Interface / Use case



IBM Cloud Integration



Seamless Integration

Integrate IBM Cloud Video Streaming seamlessly into your platform for reliable streaming services.

Secure Content Delivery

Ensure secure content delivery with encrypted transmission and advanced DRM.

Scalable Infrastructure

Leverage IBM Cloud's scalable infrastructure to support high-volume streaming.

Hosting and Deployment

1

Hosting Platform

Deploy the platform on IBM Cloud for reliable hosting and scalability.

2

Deployment Methods

Utilize containerization with Docker and orchestration with Kubernetes for efficient deployment.

Development Progress

1 ***Current Status***

The development is on track with key features implemented and the UI design finalized.

2 ***Challenges***

Overcoming technical challenges during integration with IBM Cloud Video Streaming.

3 ***Successes***

Achieved seamless streaming and robust user registration and authentication mechanisms.

Next Steps (Part 2)

1

Content Management System

Create a content management system for easier management of movies and user profiles.

2

Payment Gat eway Integration

Integrate a secure payment gateway for smooth transactions and subscription management.

3

Enhanced Recommendation Algorithm

Implement a machine learning algorithm to provide personalized movie recommendations to users.

Conclusion

By leveraging the power of IBM Cloud Video Streaming and cutting-edge development technologies, we aim to provide a seamless virtual cinema experience with secure access and captivating features. Together, let's revolutionize the way we enjoy movies.

Thank You

Thank you for your time and attention. We appreciate your presence and look forward to bringing the best virtual cinema experience to you.