

# **Media Streaming with IBM Cloud Video Streaming**

*Submitted in partial fulfilment of the degree of*

**BACHELOR OF ENGINEERING**  
**in**  
**COMPUTER SCIENCE ENGINEERING.**

**Panimalar Institute of Technology, Chennai.**  
**(BATCH 2021-2025)**

Submitted by:

Madhan Kumar.K(au211521104082).

Mageshkannan.U(au211521104083).

Ramprasath.J(au211521104123).

Jashwanth.E.M(au211521104057).

Pradeep.P(au211521104109).

# ABSTRACT

The landscape of media streaming is undergoing a profound transformation, and IBM Cloud Video Streaming emerges as a leading player in this dynamic environment. This project delves deeply into the realm of media streaming, with a specific focus on IBM's cloud service. IBM Cloud Video Streaming provides an extensive suite of features and capabilities, offering organizations the means to seamlessly deliver, manage, and protect high-quality video content to audiences around the globe.

Within this exploration, we thoroughly examine the key components and functionalities of IBM Cloud Video Streaming, encompassing comprehensive content management tools, live streaming capabilities, and the dynamic realm of video-on-demand services. We shed light on the platform's user-friendly interfaces and advanced analytics tools, empowering content providers to gain invaluable insights into viewer engagement patterns and preferences, thus allowing for the refinement of content delivery strategies. Furthermore, we highlight the paramount importance of the robust security measures and content protection mechanisms implemented by IBM Cloud Video Streaming. These measures ensure that sensitive content remains safeguarded in an increasingly interconnected digital landscape, offering peace of mind to content creators and distributors. Through a comprehensive analysis of real-world case studies and practical implementations, this project underscores how IBM Cloud Video Streaming can be a transformative force for organizations seeking to deliver captivating media content efficiently and securely, ultimately enhancing their digital presence and engagement with audiences worldwide.

## **Phase 2: Innovation Project Plan**

### **Project Objectives:**

Enhance user engagement and satisfaction through innovative features.  
Incorporate product reviews, Favourite, and personalized recommendations.

### **Project Tasks:**

#### **1: Product Reviews Integration:**

TASK:

##### **A. Design Product Reviews Feature:**

- Layout and Functionality Definition:
  - Define the layout and functionality which will be more responsive.
- Wireframes and Mock-ups Creation:
  - Generate wireframes and mock-ups to visualize the design.

##### **B. Develop User-friendly Review System:**

- User-friendly Interface Implementation:
  - Implement a user-friendly interface for the review system.
- Add to favourite tab:
  - Implement a tab , where I can add all my favourite shows.

##### **C. Implement User Reviews:**

- Backend Development for Review Submission:
  - Develop the backend infrastructure to handle user review submissions.

- Frontend Components for User Reviews:

- Create frontend components to display and manage user reviews.

#### **D. Display Reviews Prominently:**

- Product Page Layout Design:

- Design the layout of the product page.

- Review Sections with Thumbnails:

- Incorporate review sections into the product page, including thumbnail previews of reviews.

## **2: Favourite's Functionality:**

TASK:

#### **A. Design favourite's Feature:**

- Layout and User Flow Planning:

- Plan the layout and user flow for the favourite feature.

#### **3: Personalized Recommendations**

- Favourite Icons and Buttons Design:

- Design icons and buttons for the favourite feature.

#### **B. Develop favourite's Functionality:**

- Favourite's Database Schema Creation:

- Create a database schema to support the Favourite functionality.

- User Interface Development for Favourite's Management:

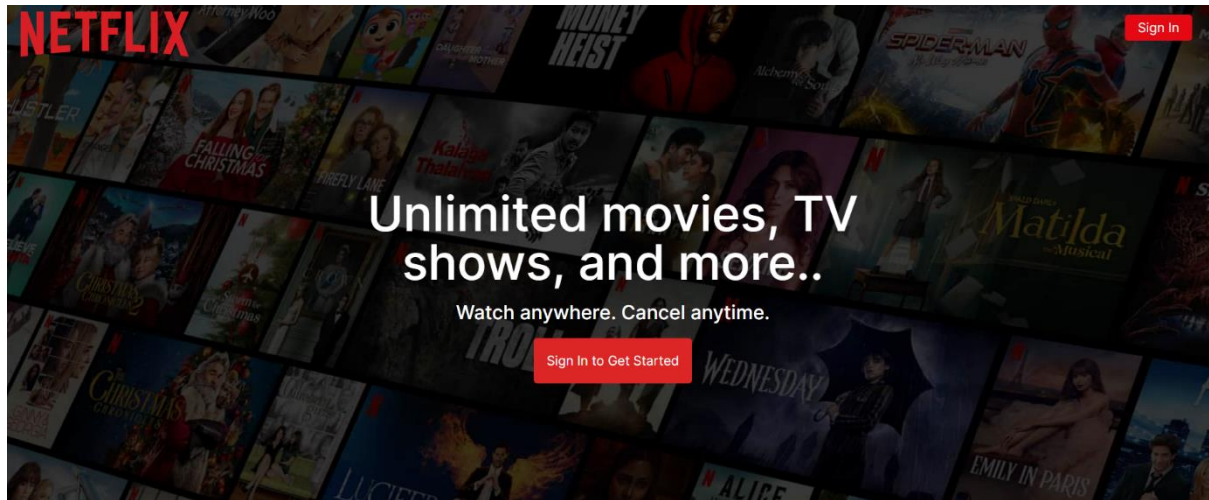
- Build the user interface to allow users to create and manage their Favourite's.

#### **C. Enable Favourite's Sharing:**

- Sharing Options Design:

- Design options for sharing Favourite's items.

- Social Media Sharing Buttons Implementation:
  - Implement social media sharing buttons to facilitate Favourite's sharing.



### **3: Personalized shows Recommendations:**

TASK:

### A. Implement User Behaviour Analysis:

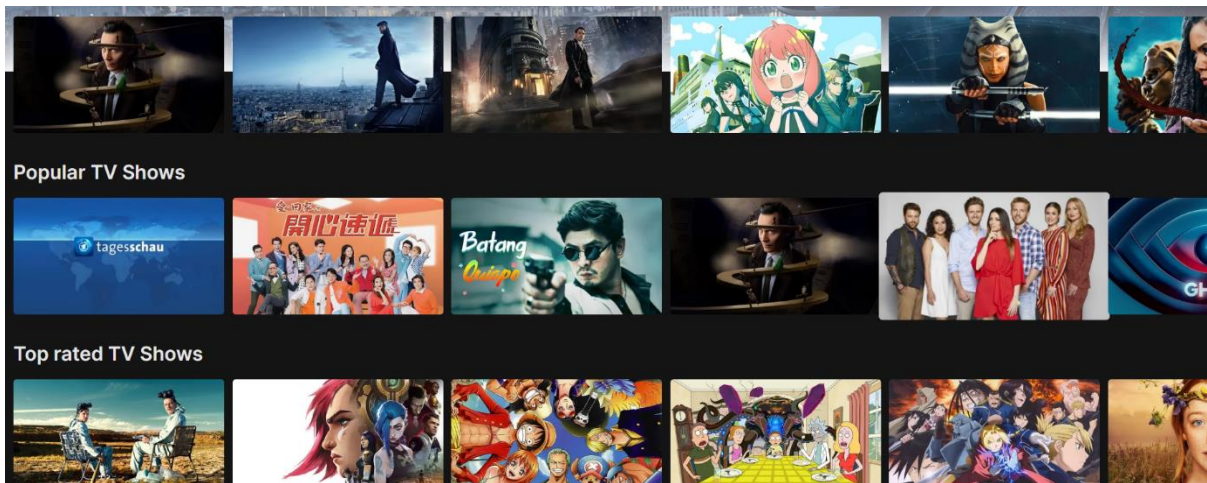
- Set up data collection tools.
- Analyse user behaviour patterns.

### B. Develop Personalized Recommendations:

- Implement machine learning algorithms.
- Create user profiles for personalized recommendations.

### C. Display Recommendations:

- Design recommendation for shows and Integrate recommendations on the homepage and shows pages.



## 4:Perform Login Authentication:

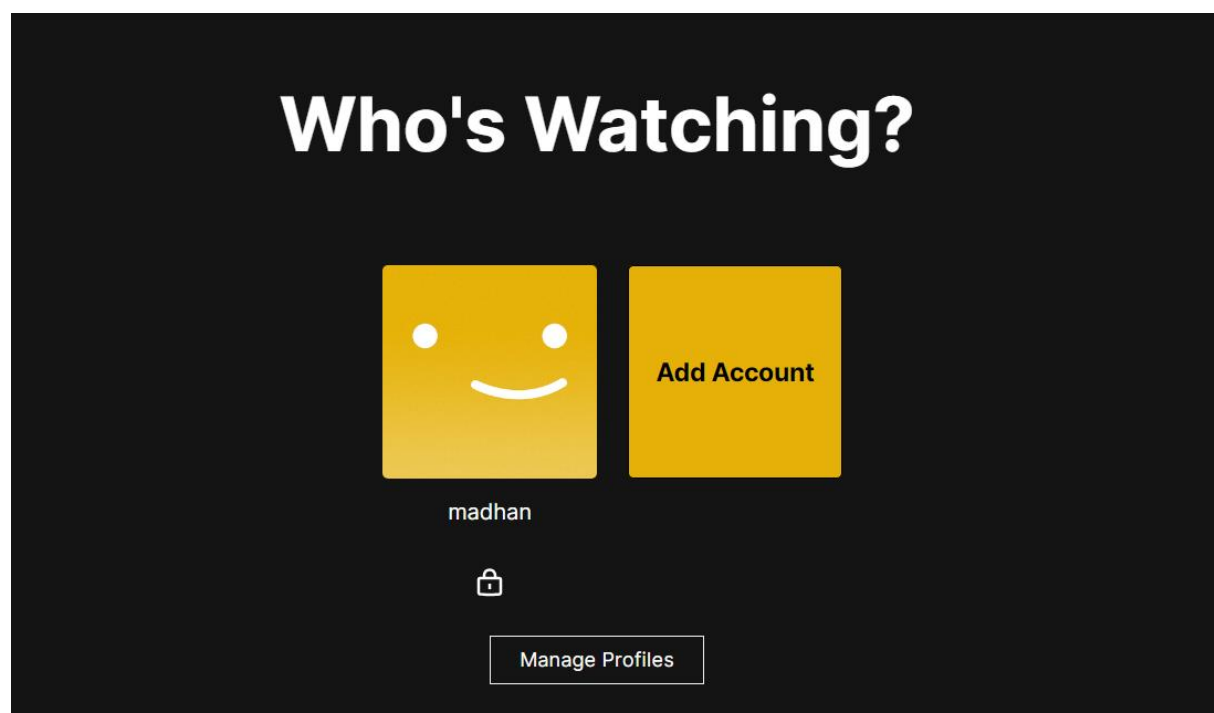
TASK:

### **A. Authentication:**

Authenticate the user, using with their email or user name with password.

### **B. Social Sharing:**

Integrate sharing with major social media platforms.



## **5: Advanced Search and Filter Options:**

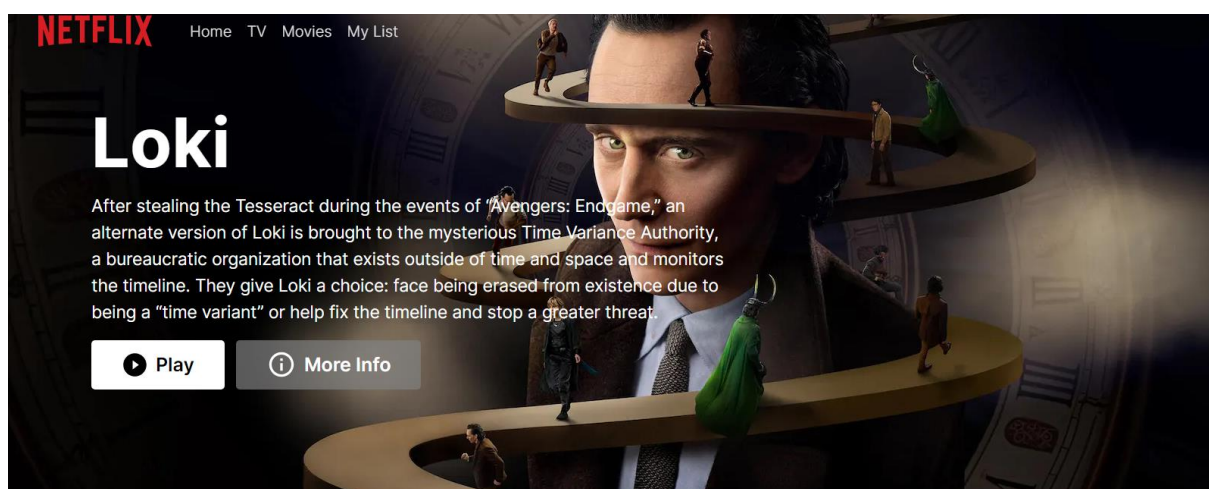
### **A. Enhance Search Functionality:**

- Improve search algorithm.
- Enhance the search functionality to display product availability.

### **B. Implement Advanced Filters:**

- Design UI elements for filters.
- Implement filters in search results.

#### **Showing Results for loki**



## **Conclusion:**

In Phase 2 of Media streaming app project, our objective is to achieve these milestones through the successful completion of tasks. These innovative features will provide users with a more engaging and personalized show watching experience, leading to increased user satisfaction and retention.