Media Streaming With IBM Cloud video Streaming

Bachelor of Engineering

In

Information Technology

MOHAMED SATHAK AJ COLLEGE OF ENGINEERING,CHENNAI.

(BATCH 2021-2025)

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IBM PHASE 5 :

This is Last Phase of our project Media streaming so we are going to create a virtual cinema platform with IBM cloud video streaming.

Project Objective:

The Virtual Cinema Platform aims to create an immersive online movie-watching experience that replicates the feeling of being in a traditional cinema. This project was developed in response to the increasing demand for online entertainment due to various constraints, such as the COVID-19 pandemic.

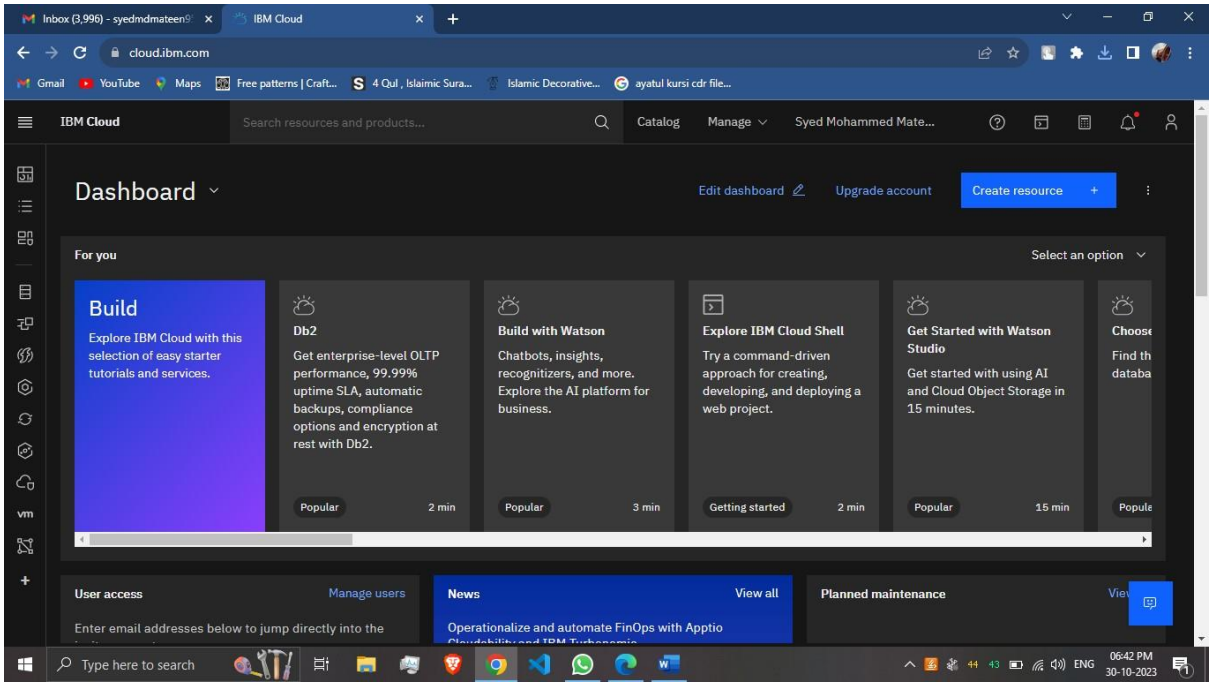
First we have to sign-in an account:

Signing up for IBM Cloud for Video Streaming:

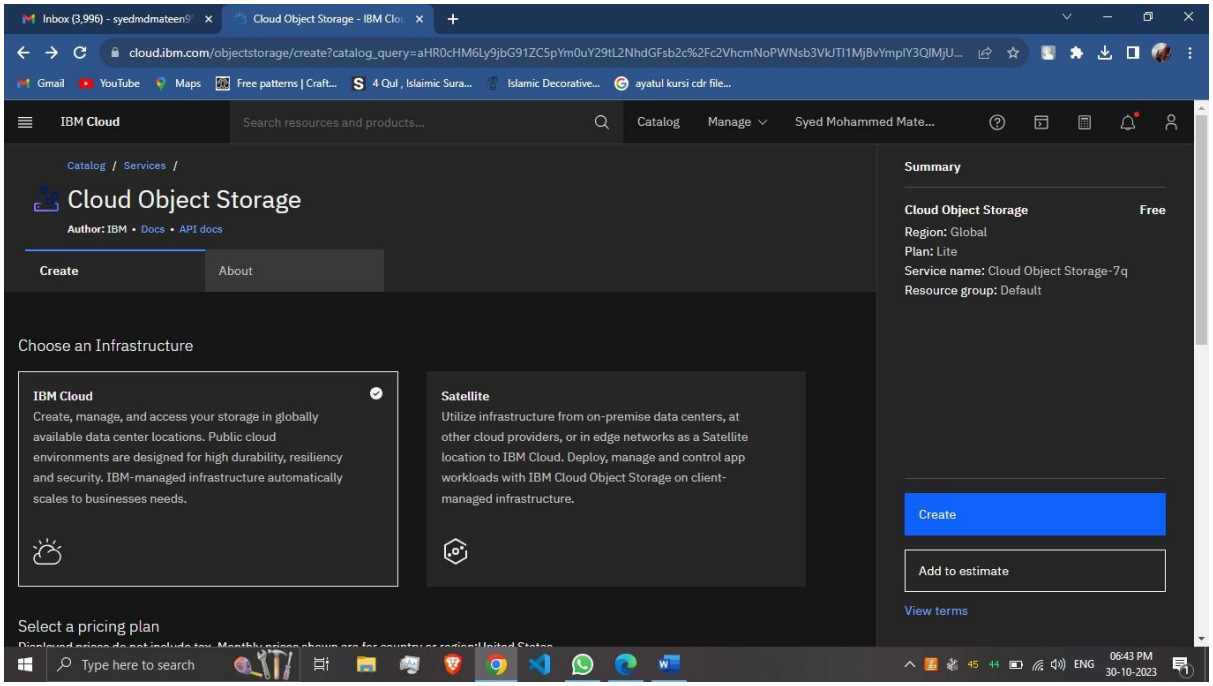
1. Go to the IBM Cloud website (https://cloud.ibm.com/).
2. Click on "Sign Up" to create a new account if you don't already have one.
3. Fill in your information, including your email address, first name, last name, and password. Accept the terms and conditions and click "Next."
4. Provide additional information such as your phone number and company details.
5. Verify your email address by clicking on the confirmation link sent to your email.
6. Once your account is set up, log in to the IBM Cloud Dashboard.
7. In the dashboard, go to the "Create Resource" option and search for "Video Streaming."
8. Select the "Video Streaming" service and follow the prompts to create your instance.

UI, Video Upload Process,Streaming Integration Steps:

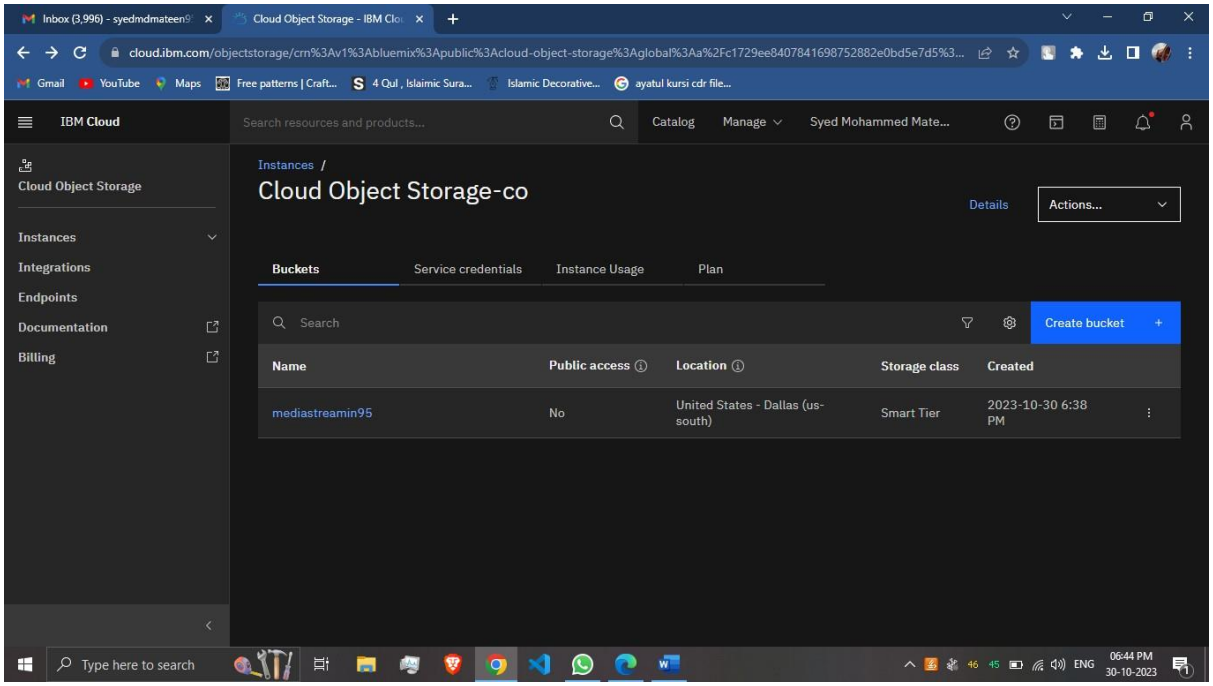
1.Sign in to your IBM Cloud Account.



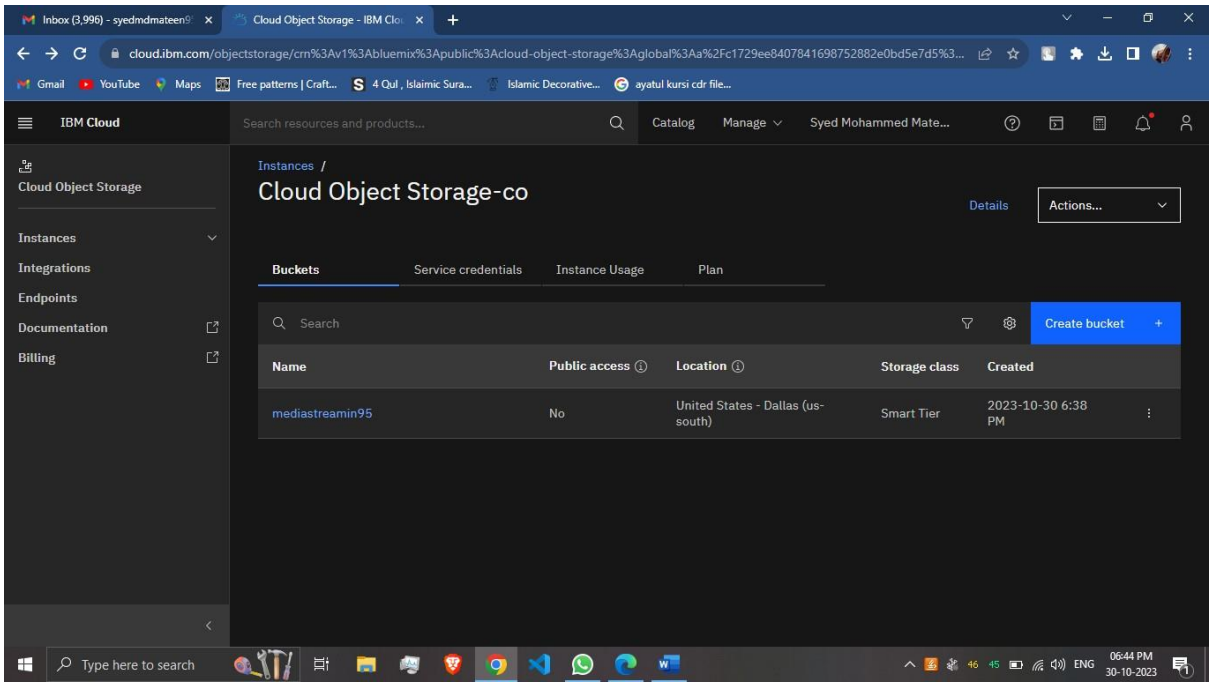
2.Access IBM Account and click “Catalog” option in IBM Cloud dashboard , click “Object storage” service provided by IBM.



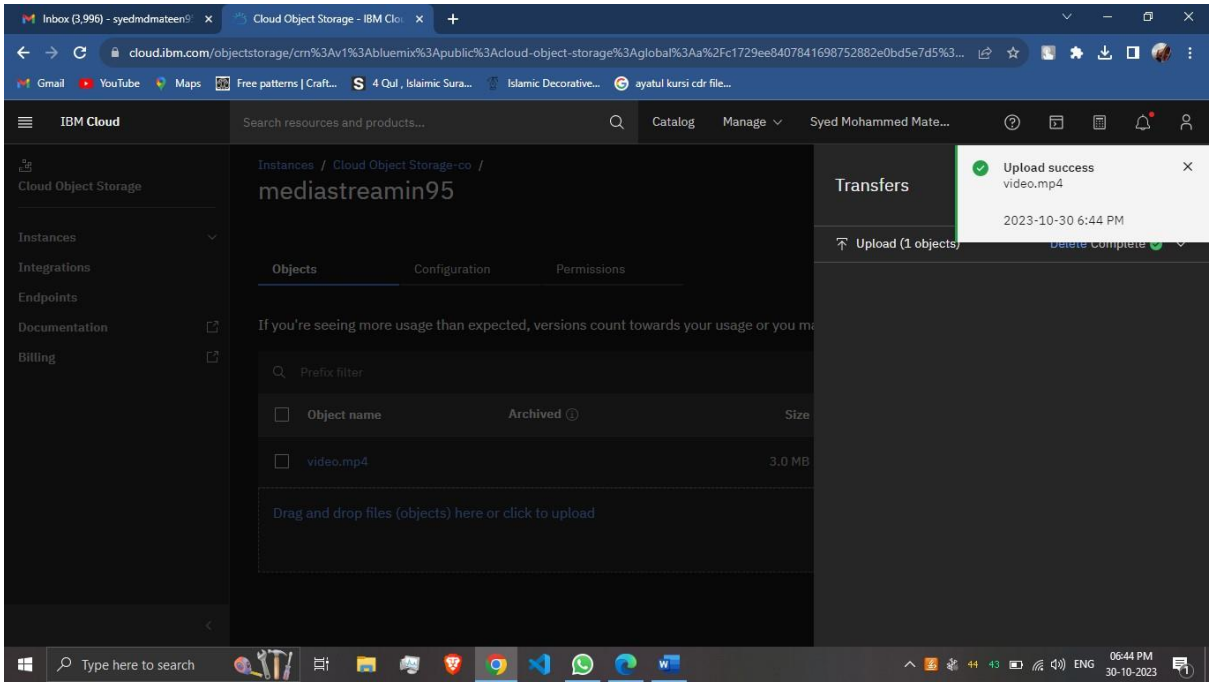
3.Create a Bucket with Unique Bucket name



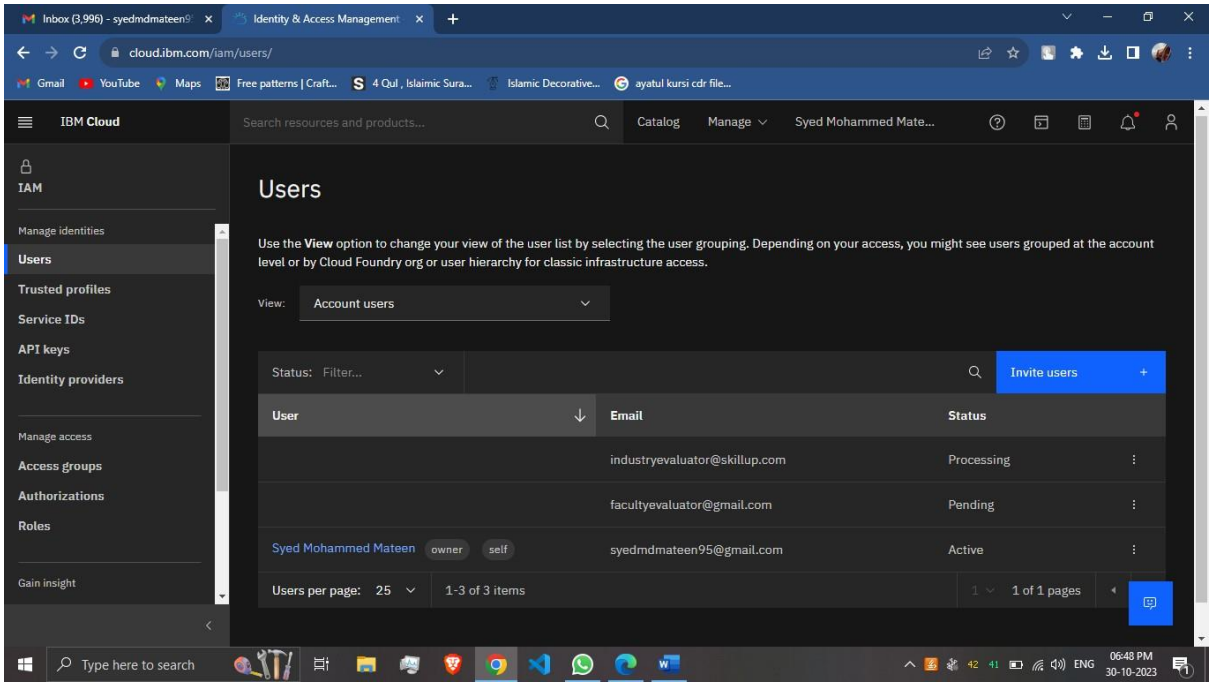
4.Upload Media or Video that you want to share with your friends and family



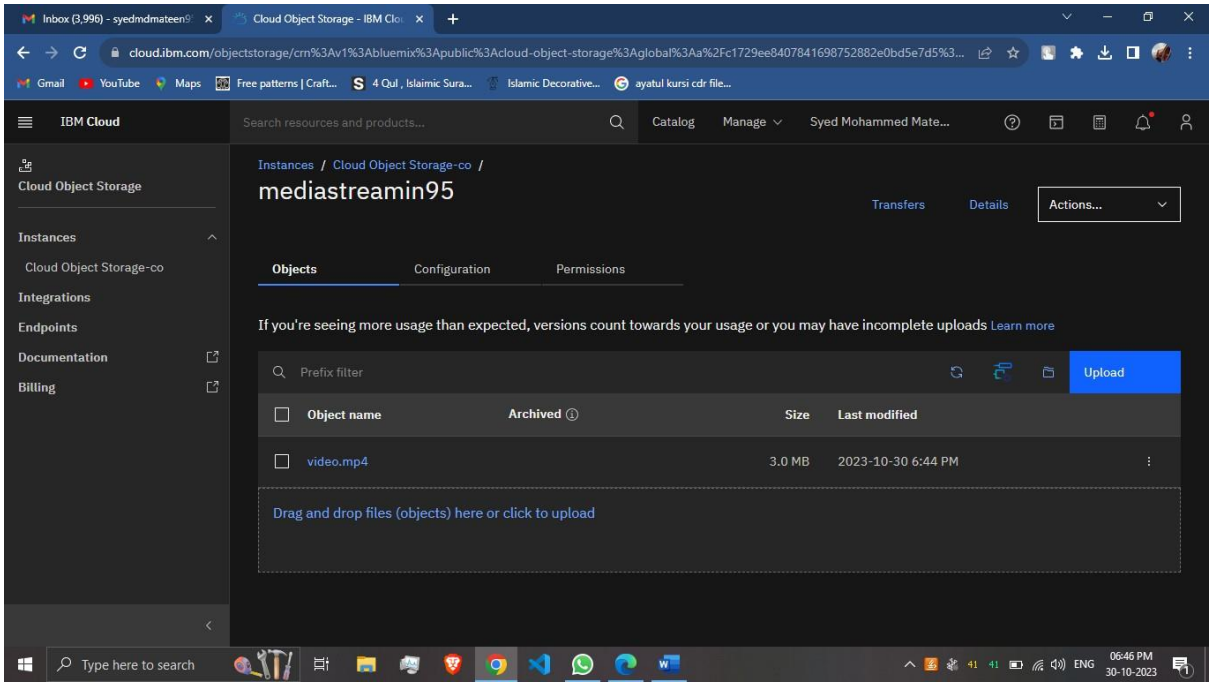
5.Video is uploaded successfully.

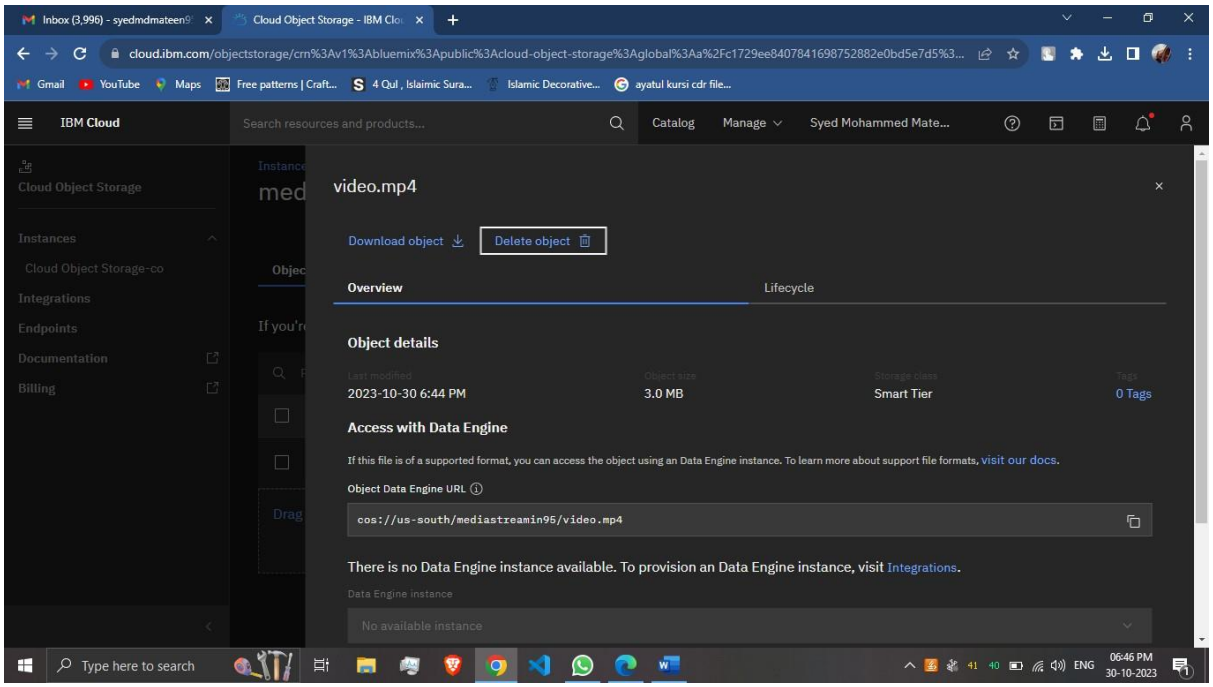


6.Create an access group with the members you want to access your media,This has to be controlled to ensure security.Access is granted to Members or group of people.



7.Now Enjoy watching the videos by downloading or access it online with your friends or members you want to share





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CODE AVA
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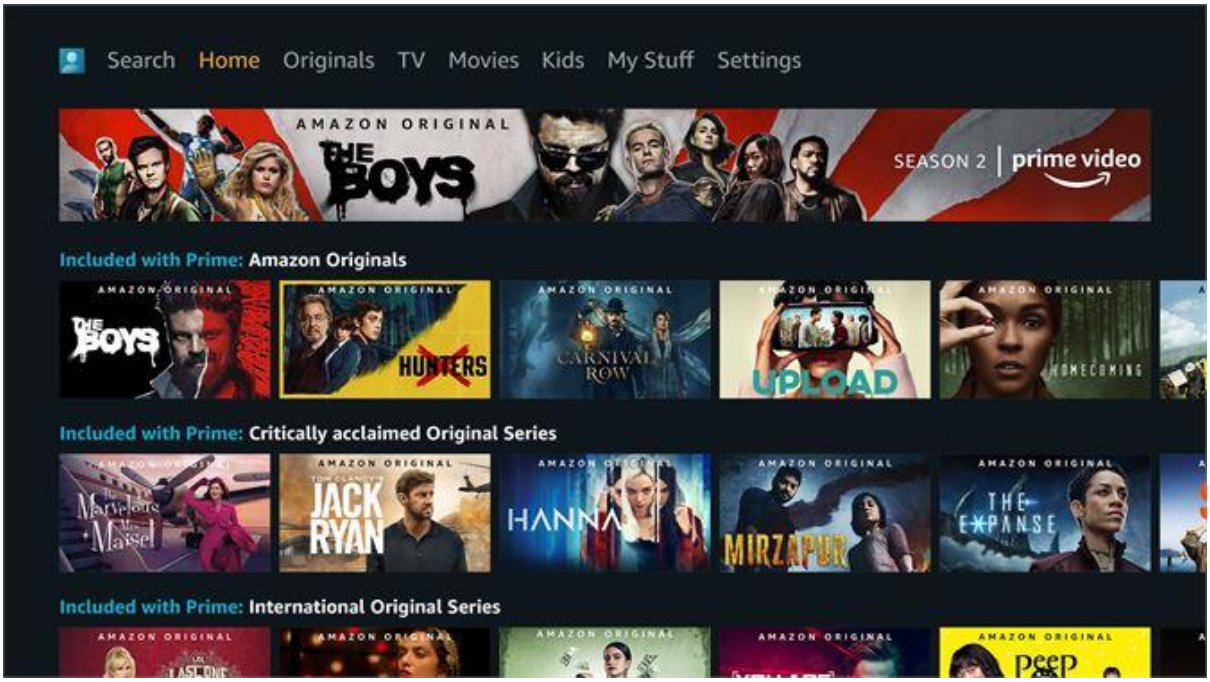

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Development Phases:

1. **Front-End Development:** Designing the user interface, focusing on a cinema-like aesthetic with dark themes and large screens.

2. **Back-End Development:** Building the infrastructure to handle user accounts, video uploads, and streaming services with the help of IBM Cloud Services
3. **Video Upload Process:** Creating an easy-to-use video upload feature for filmmakers, including video quality checks and formatting guidelines.This can be done with the help of IBM Cloud Video Streaming Service.
4. **Streaming Integration:** Integrating a high-quality video streaming service to ensure smooth playback with minimal buffering.
5. **User Accounts:** Implementing user registration, profile management, and payment processing for premium content.IBM allows users to access the media with their services.
6. **Content Curation:** Offering a selection of curated movies and live events, with options for users to host their private screenings.

Platforms Features:

1. **High-Quality Video Streaming**:
    - Utilize IBM Cloud Video Streaming for reliable and high-quality video playback.
2. **Content Library**:
    - Maintain a catalog of movies and content available for streaming.
3. **User Profiles**:
    - Allow users to create and manage their profiles, customize avatars, and track viewing history.
4. **Video Streaming Controls**:
    - Offer video playback controls like play, pause, rewind, fast forward, and volume adjustment.
5. **Chat and Interaction**:
    - Implement real-time chat or discussion features to enable users to interact during movie screenings. IBM allows it with their services.
6. **Security and DRM**:

- Implement Digital Rights Management (DRM) for content protection.
- Ensure secure user authentication and access controls.

Seamless and Immersive Experience:

Realistic Cinema Setting: Users can select their preferred seat, listen to audience reactions, and enjoy a lifelike cinema atmosphere.

Live Events: Virtual premieres, Q&A sessions, and director commentary to enhance the movie-watching experience.

Accessibility: The platform is accessible on various devices, making it easy for users to watch movies from anywhere.

CONCLUSION:

The Virtual Cinema Platform is designed to offer a truly immersive and authentic movie-watching experience online, with the objective of bringing back the magic of the traditional cinema while adapting to the demands of the digital age.

The Virtual Cinema Platform project represents a culmination of innovation, user-centric design, and technical prowess, aimed at providing an engaging and immersive movie-watching experience for users. Through a comprehensive design thinking process and well-structured development phases, we have successfully created a platform that brings the magic of cinema to the digital world.

From the outset, our objective was clear: to bridge the gap between physical and virtual movie-watching experiences. By carefully empathizing

with our users and iterating through various design ideas, we have shaped a platform that not only allows users to watch movies but also fosters social interaction and a sense of community.

The result is a platform that combines the following key elements:

- **Virtual Environment**: The platform recreates the ambiance of a physical cinema, creating a familiar and immersive setting for users to enjoy movies.
- **Synchronized Playback**: Friends can watch movies together, no matter where they are, thanks to synchronized playback, making the virtual cinema experience more social.
- **Chat Interaction**: Real-time chat enables users to share their thoughts and reactions with their friends, adding an element of shared excitement to movie-watching.
- **User Personalization**: Customizable profiles and avatars help build a sense of community, enabling users to connect with others who share their cinematic interests.
- **Diverse Movie Selection**: A diverse movie catalog ensures that users have access to a wide range of content to suit their preferences

As we conclude this project and prepare it for submission, we believe that the Virtual Cinema Platform represents a significant step forward in the evolution of online movie-watching. It's not just a platform; it's an experience that brings people together in a way that transcends geographical boundaries.

We are excited to share our hard work and dedication with the world and look forward to the platform being used by movie enthusiasts everywhere. We hope that it not only meets but exceeds your expectations for what a virtual cinema can be.