UE21CS351A: Database Management System

MINI PROJECT USER REQUIREMENT SPECIFICATION

OTT

K SIDDHARTH RAO
PES1UG21CS265

KNC VARDHAN
PES1UG21CS256

1. Introduction

1.1 Purpose of the Project

The purpose of the OTT (Over-The-Top) app project is to develop a comprehensive and user-friendly streaming platform that allows users to access a wide variety of digital content, including movies, TV shows, documentaries, and more. The app will provide a seamless and enjoyable streaming experience for users.

1.2 Scope of the Project

The project encompasses the development of the OTT app's backend database management, content organization, user management, recommendations, and user interactions. This SRS document outlines the functional and non-functional requirements for the project.

2. Project Description

2.1 Project Overview

The project involves creating a robust OTT app with features for content categorization, user profiles, content recommendations, user reviews, and streaming capabilities. It aims to provide an engaging and personalized experience to users.

3. System Features and Function Requirements

3.1 User Registration and Authentication

- Description: Implement a secure user registration and authentication system.

- Functional Requirement: Users must register and log in securely. Password recovery features should be available.

3.2 Content Management

- Description: Create a content catalog and organize content into categories and genres.

- Functional Requirement: Enable administrators to add, update, and delete content. Users can search and view content based on categories and genres.

3.3 User Profiles and Preferences

- Description: Allow users to create profiles and set preferences.

- Functional Requirement: Users should be able to customize their profiles and set language preferences.

3.4 Recommendations and Personalization

- Description: Provide content recommendations based on user preferences.

- Functional Requirement: Implement recommendation algorithms to suggest content to users.

3.5 Reviews and Ratings

- Description: Enable users to write reviews and rate content.

- Functional Requirement: Users can submit reviews and ratings for content. Reviews should be moderated.

3.6 Streaming and Playback

- Description: Develop a robust streaming and video playback system.

- Functional Requirement: Ensure smooth video streaming, support for different devices, and quality settings.

3.7 Subtitles and Language Support

- Description: Allow users to choose subtitles and preferred language.

- Functional Requirement: Users can select from available subtitles and languages.

3.8 Payment Integration

- Description: Implement a secure payment system for premium content.

- Functional Requirement: Users should be able to subscribe, make payments, and manage payment methods.

3.9 Search and Navigation

- Description: Create a user-friendly search and navigation system.
- Functional Requirement: Users can search for content, use filters, and navigate the app efficiently.

4. Non-Functional Requirements

4.1 Performance

- The app should provide fast content loading and streaming with minimal buffering.

4.2 Security

- User data and payment information must be securely stored and protected.

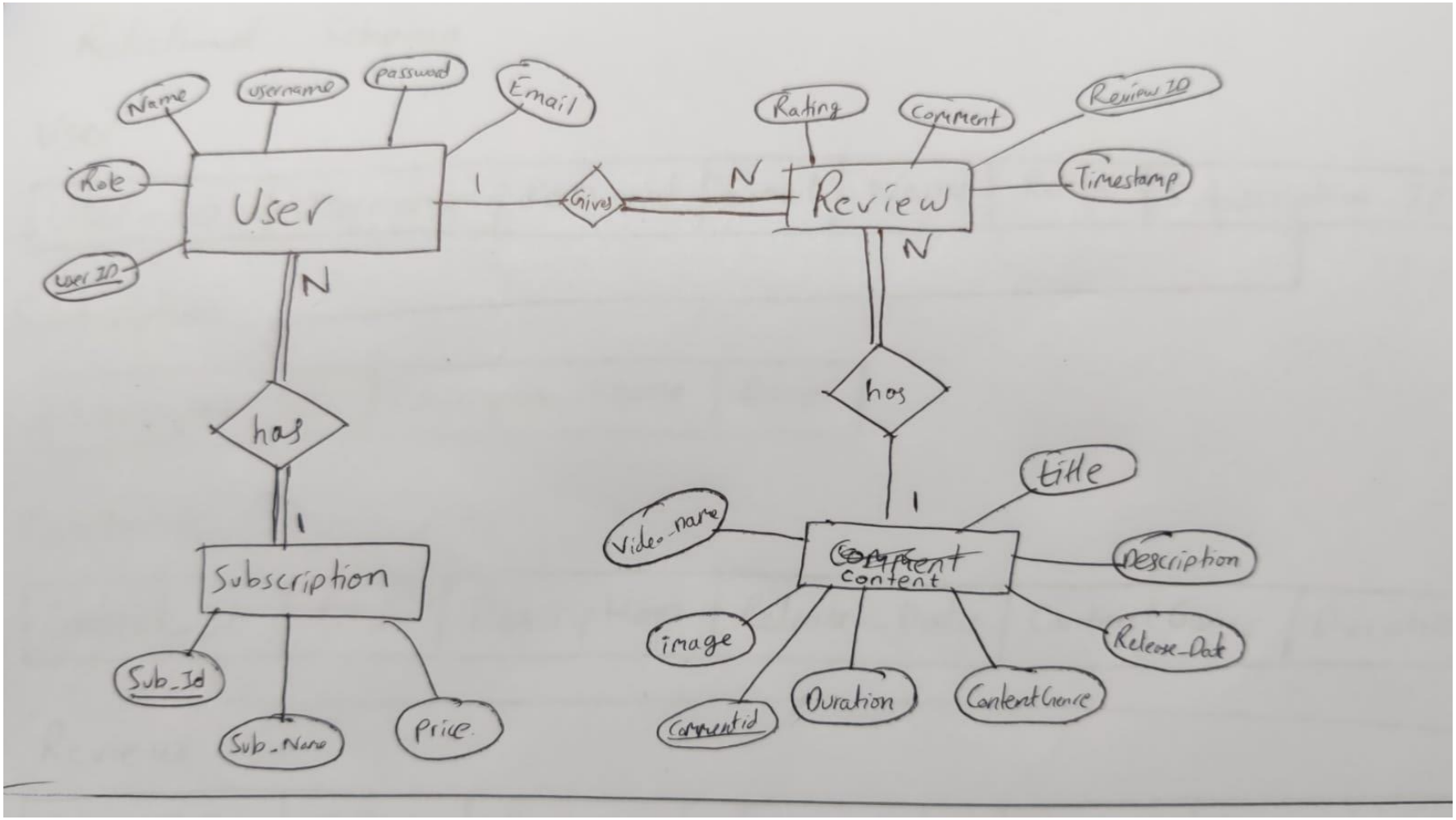
4.3 Scalability

- The system should be scalable to handle a growing user base and expanding content library.

4.4 Usability

- The user interface should be intuitive and user-friendly.

5. ER DIAGRAM


Name
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Comment
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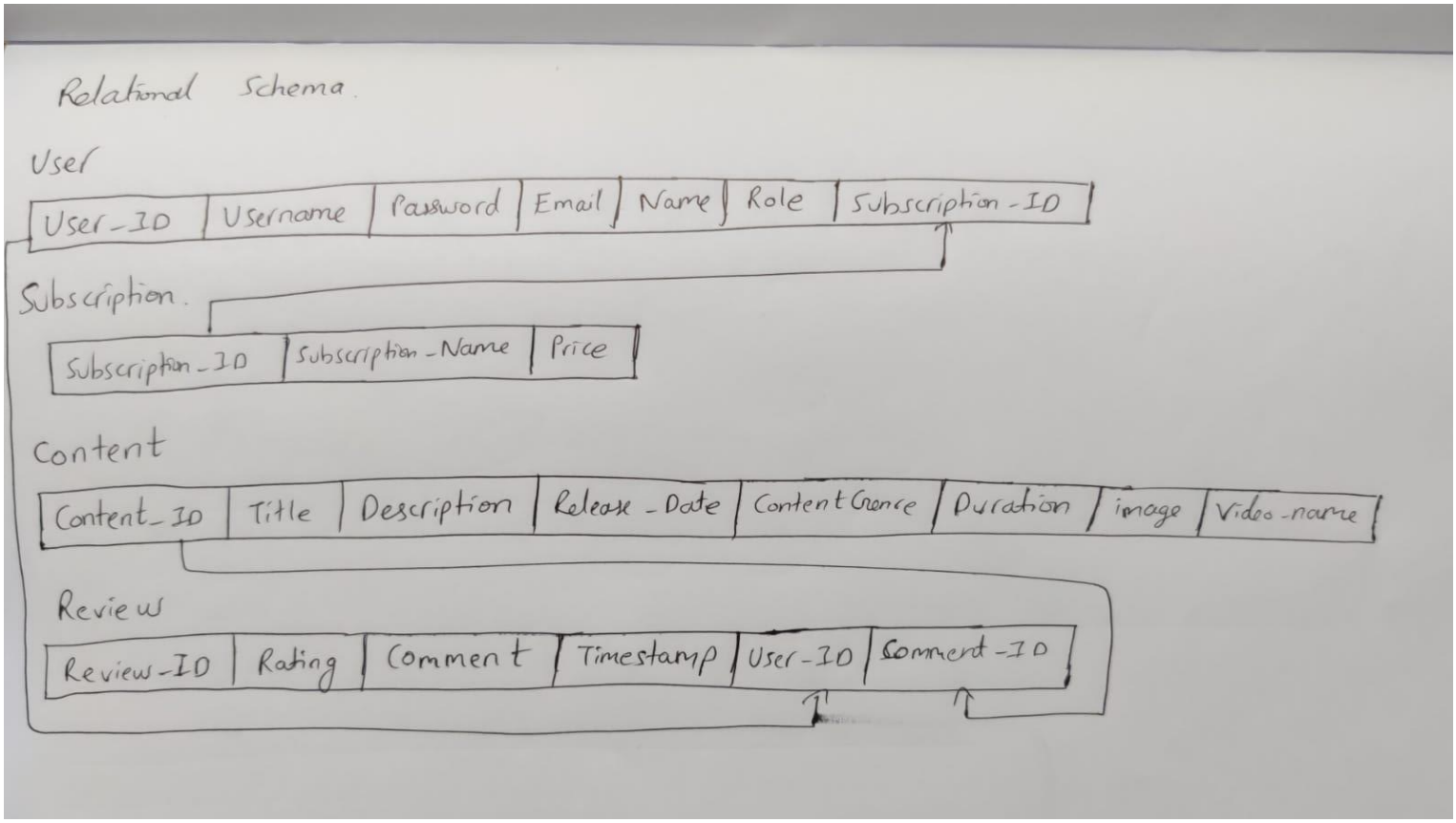
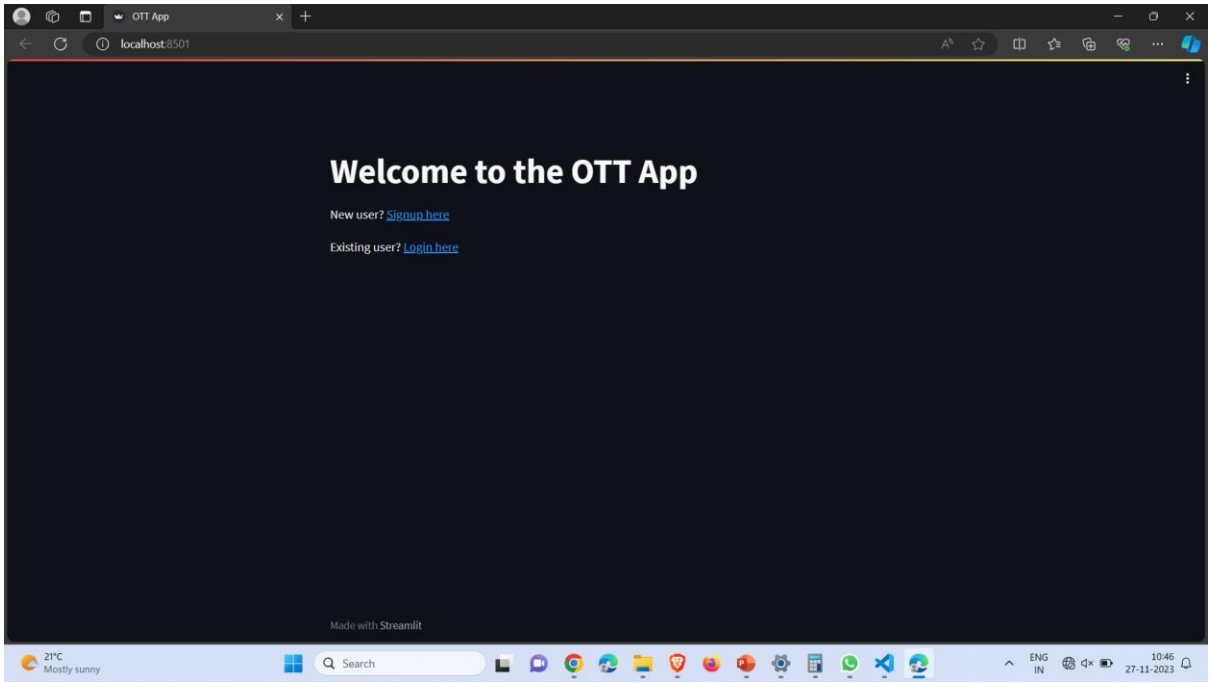
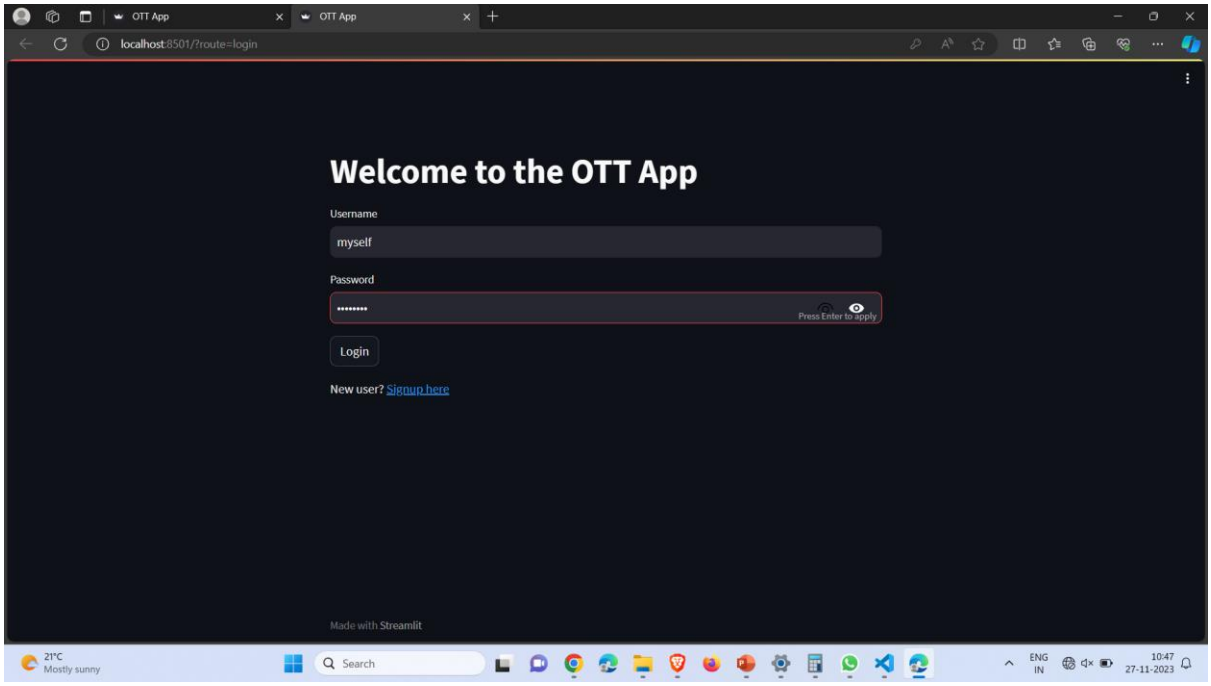
ContentGenre
Contentid

6.RELATIONAL SCHEMA



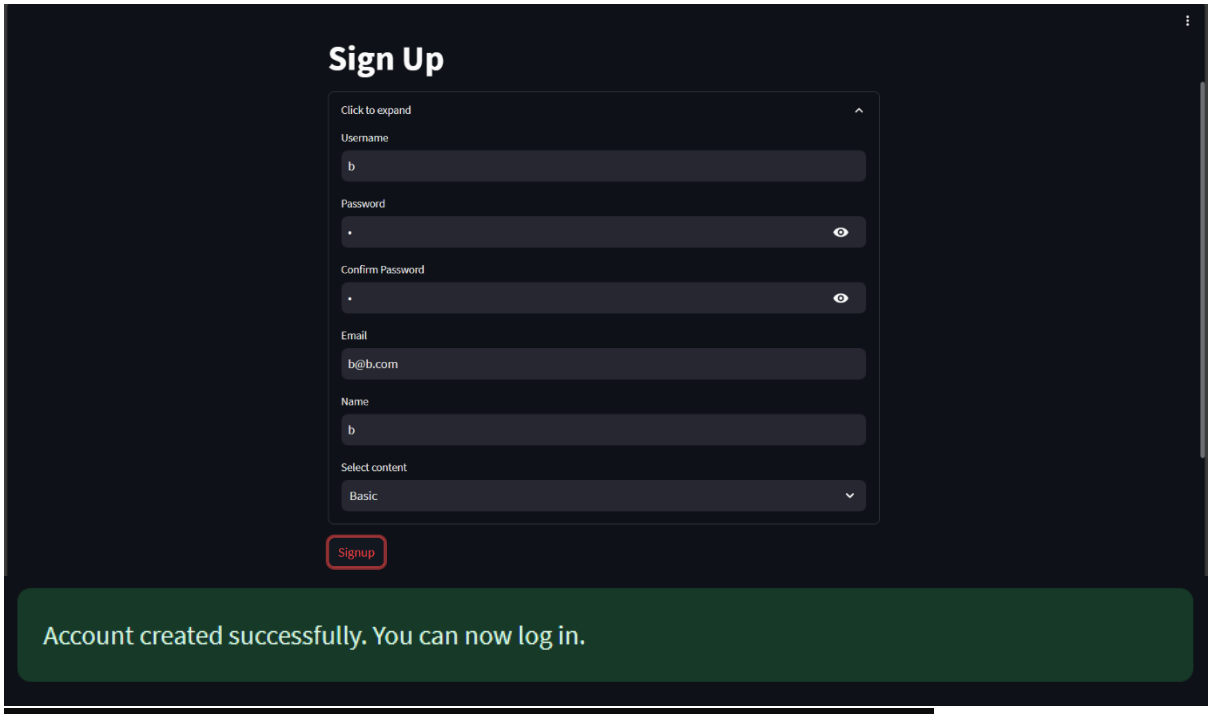


LOGIN:




```
mysql> select * from user;
+--------+----------+----------+--------------------+---------+-----------------+-------+
| UserID | Username | Password | Email              | Name    | Subscription_ID | Role  |
+--------+----------+----------+--------------------+---------+-----------------+-------+
|      1 | myself   | password | myself@example.com | Myself  |               0 | Admin |
|      2 | a        | a        | a@a.com            | a       |               1 | User  |
+--------+----------+----------+--------------------+---------+-----------------+-------+
2 rows in set (0.00 sec)
```

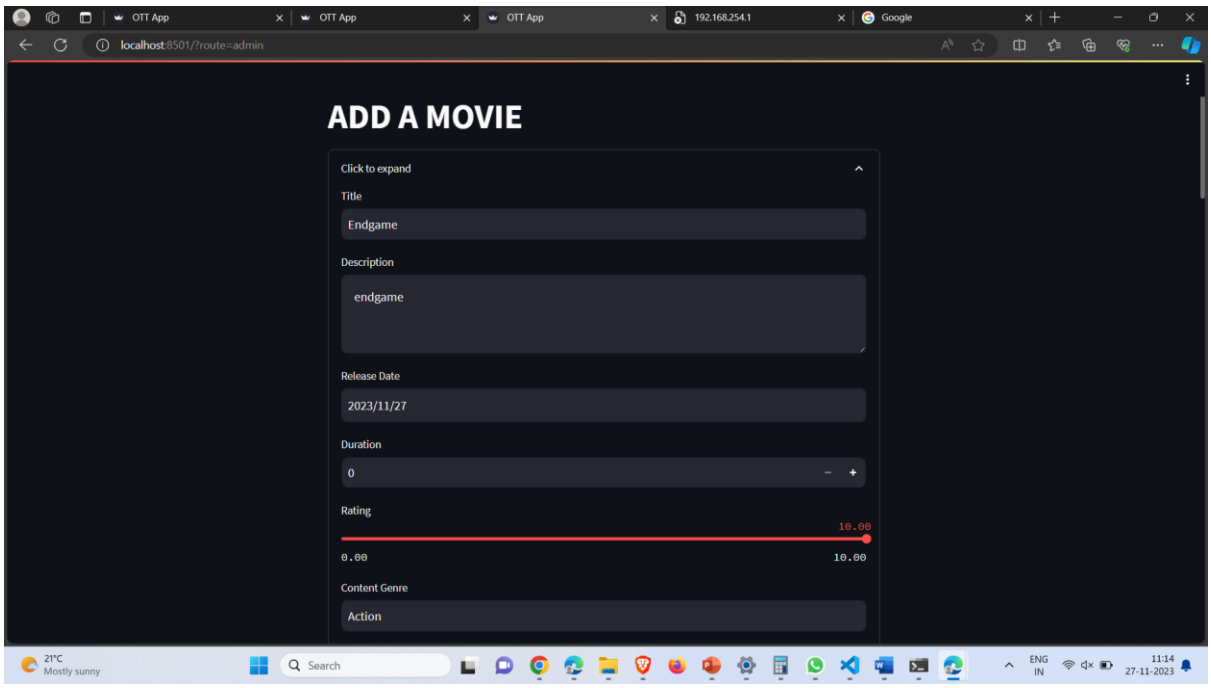
SIGNUP:

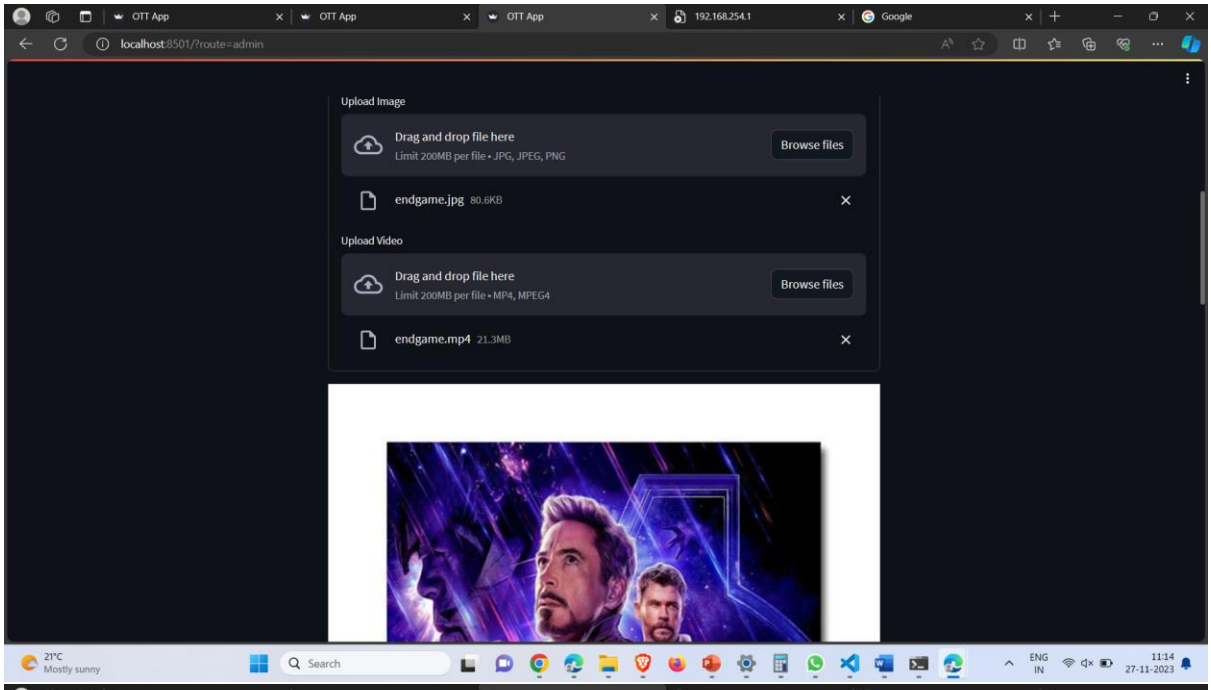


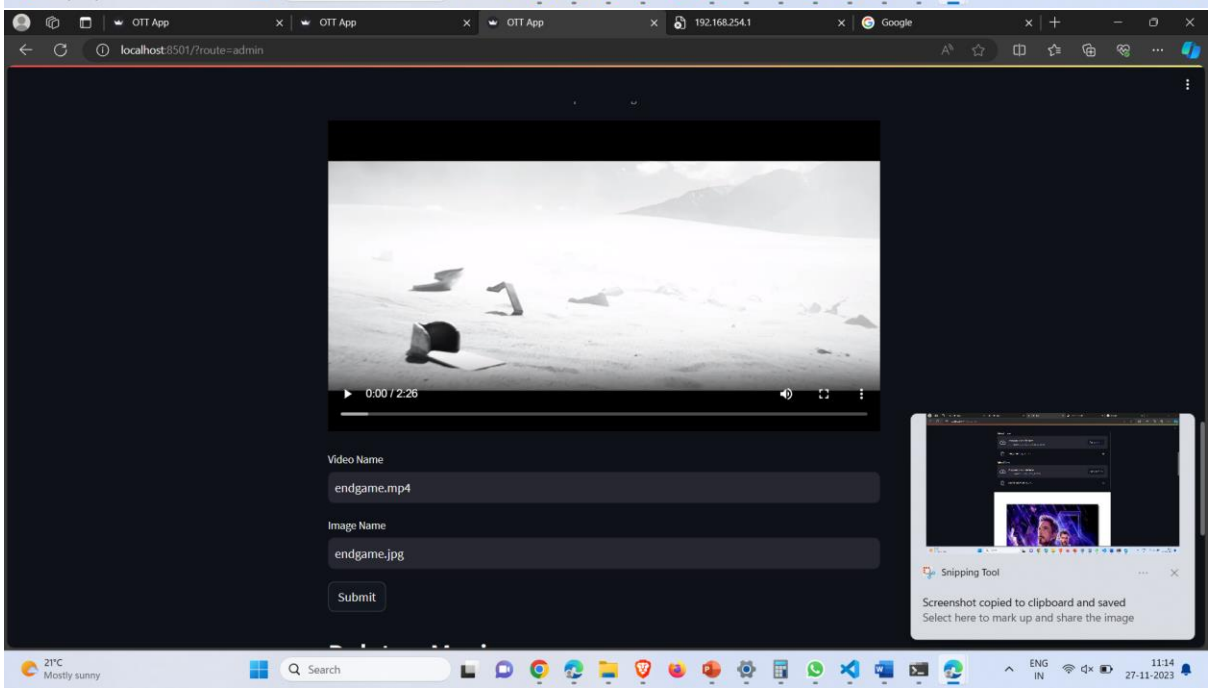

```
mysql> select * from user;
+--------+----------+----------+-------------------+--------+-----------------+-------+
| UserID | Username | Password | Email             | Name   | Subscription_ID | Role  |
+--------+----------+----------+-------------------+--------+-----------------+-------+
|      1 | myself   | password | myself@example.com | Myself |               0 | Admin |
|      2 | a        | a        | a@a.com           | a      |               1 | User  |
|      3 | b        | b        | b@b.com           | b      |               1 | User  |
+--------+----------+----------+-------------------+--------+-----------------+-------+
3 rows in set (0.00 sec)
```

ADMIN:

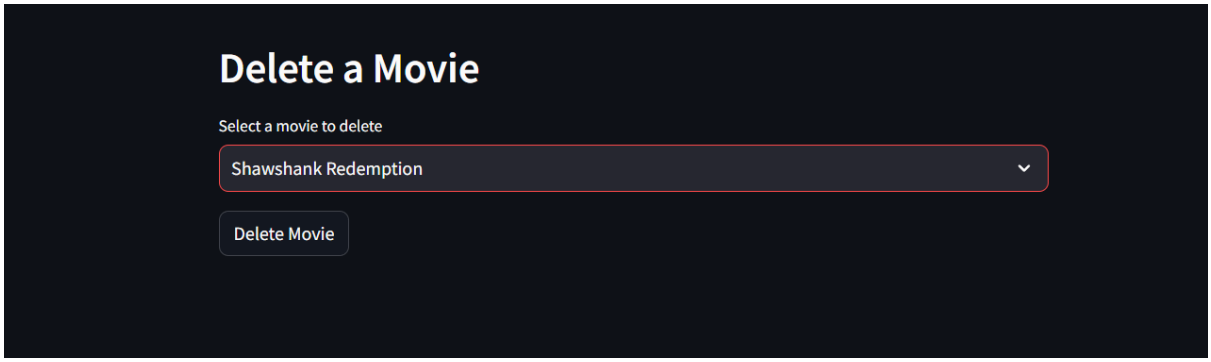
ADD MOVIES:







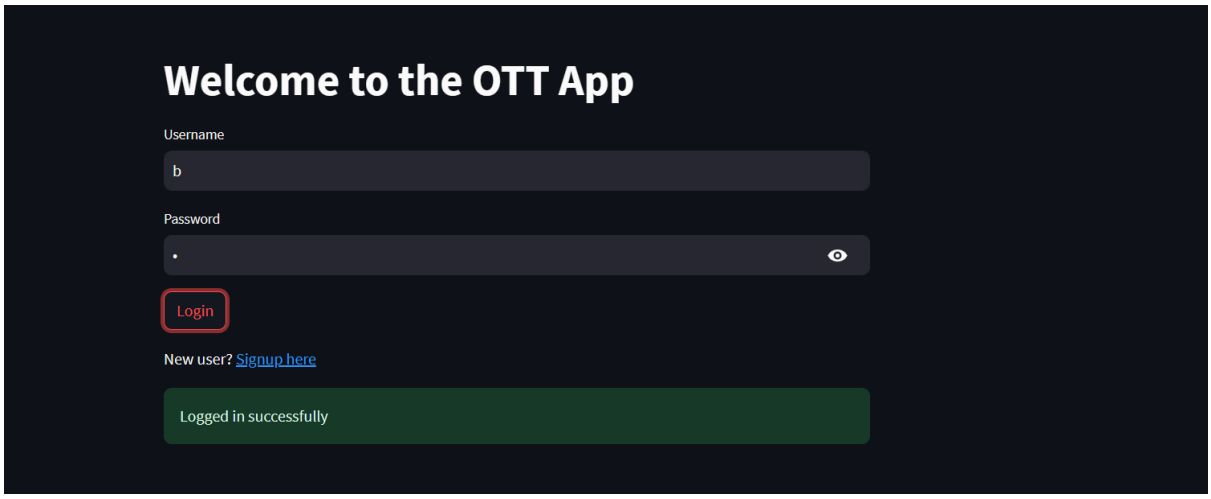

```
mysql> SELECT * FROM CONTENT;
+-----------+--------------+-----------------------
```



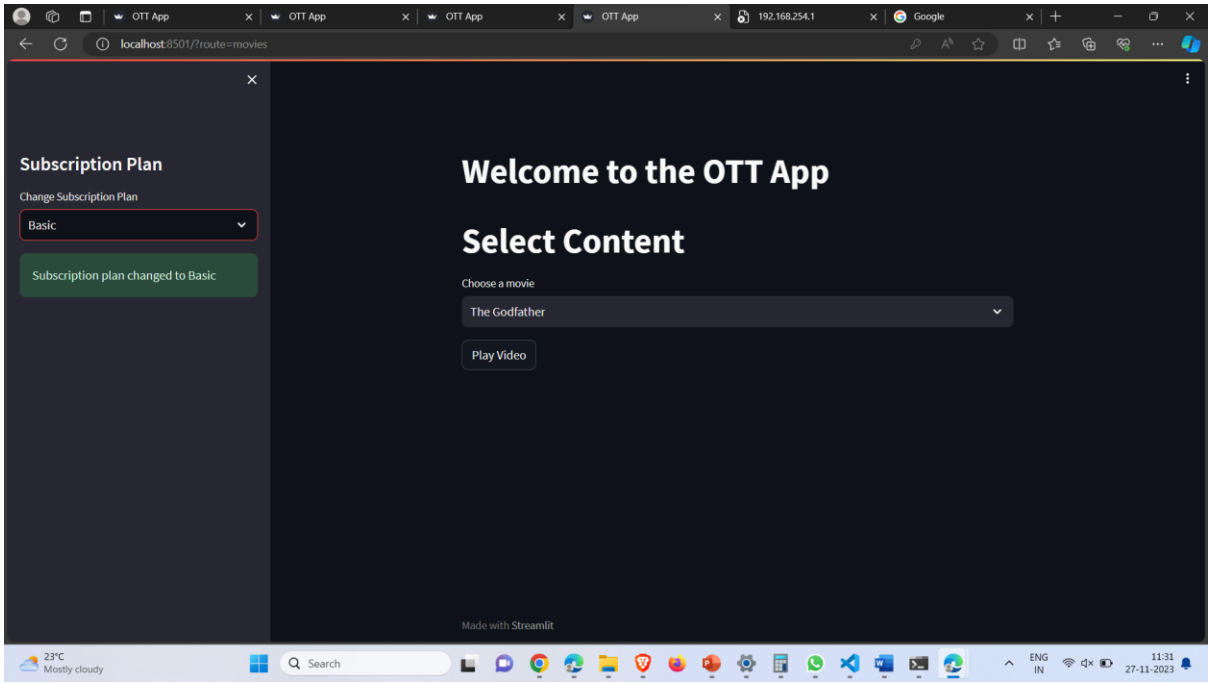

```
mysql> select * from content;
+-----------+--------------+-------------------
```

```
mysql> SELECT * FROM REVIEW;
+----------+--------+-----------+--------+----------------+-----------+
| ReviewID | UserID | ContentID | Rating | Comment        | Timestamp |
+----------+--------+-----------+--------+----------------+-----------+
|        1 |      2 |         4 |     10 | jsnjnfvjsnvslj | NULL      |
|        2 |      2 |         4 |     10 | jetnjnj        | NULL      |
+----------+--------+-----------+--------+----------------+-----------+
2 rows in set (0.00 sec)
```

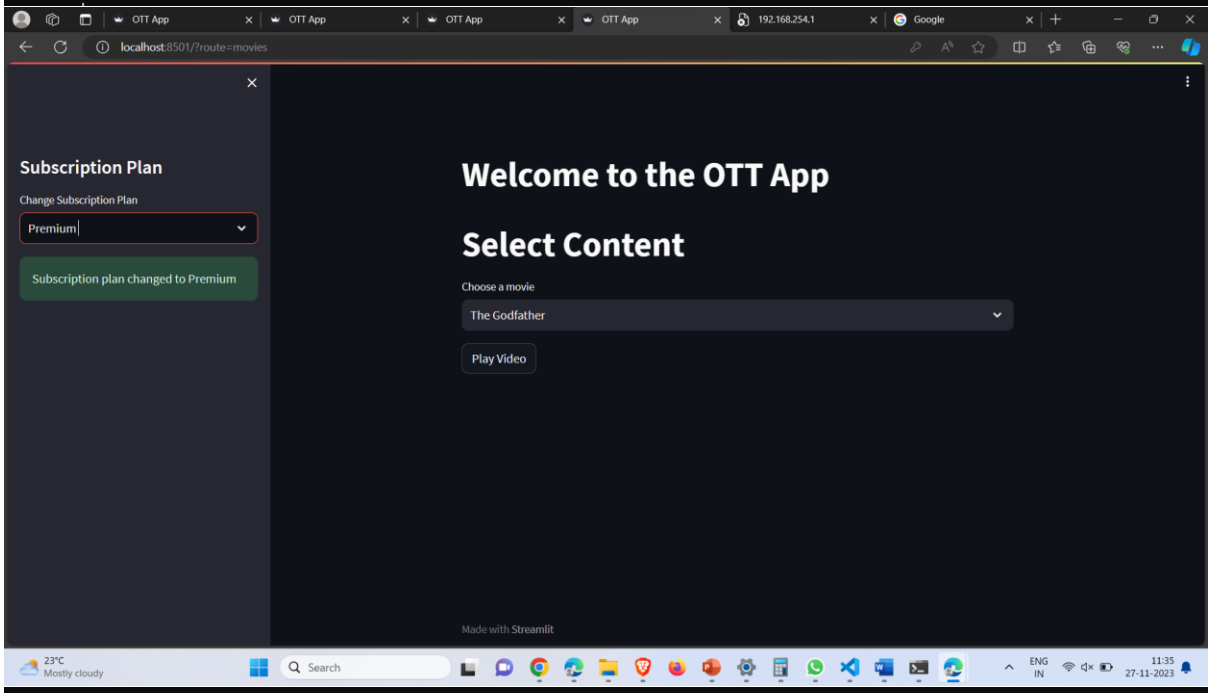
User Page:



CHANGE SUBSCRIPTION:

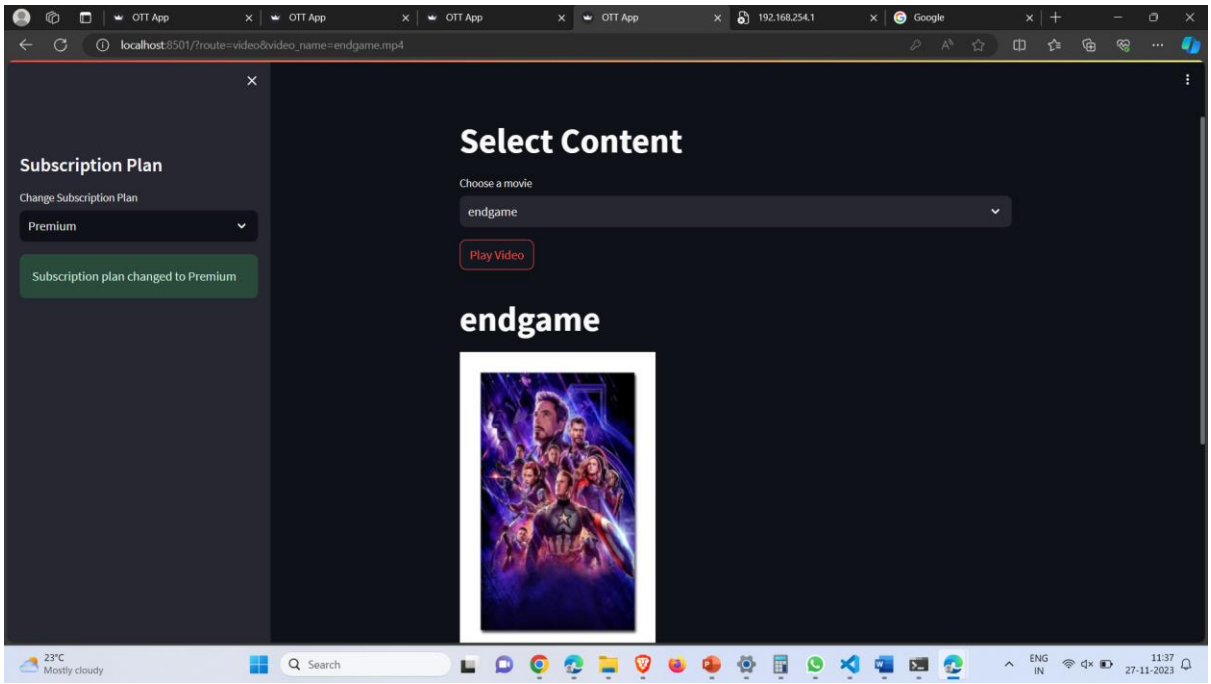


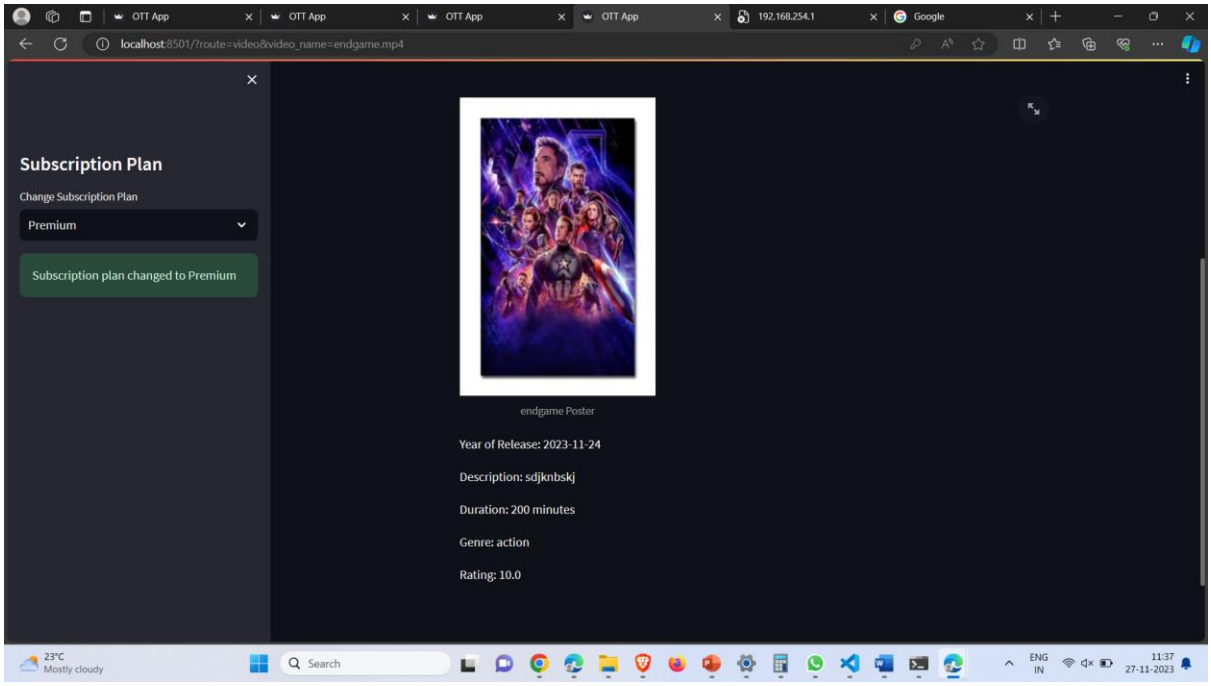
```
mysql> select username, Subscription_Name from user u, subscription s where u.Subscription_ID = s.SubscriptionID;
+----------+-------------------+
| username | Subscription_Name |
+----------+-------------------+
| myself   | Admin             |
| a        | Basic             |
| b        | Basic             |
+----------+-------------------+
3 rows in set (0.00 sec)
```




```
mysql> select username, Subscription_Name from user u, subscription s where u.Subscription_ID = s.SubscriptionID;
+----------+-------------------+
| username | Subscription_Name |
+----------+-------------------+
| myself   | Admin             |
| a        | Basic             |
| b        | Premium           |
+----------+-------------------+
3 rows in set (0.00 sec)
```

WATCH MOVIES:




OTT App
OTT App
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OTT App
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Google
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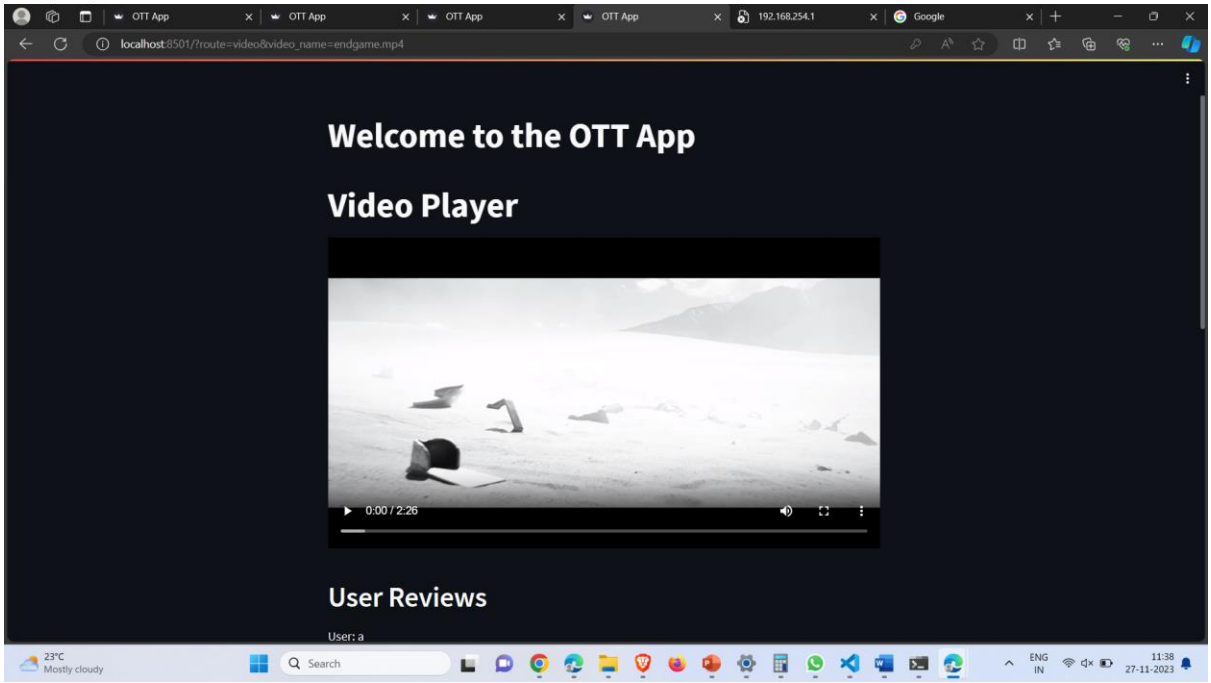
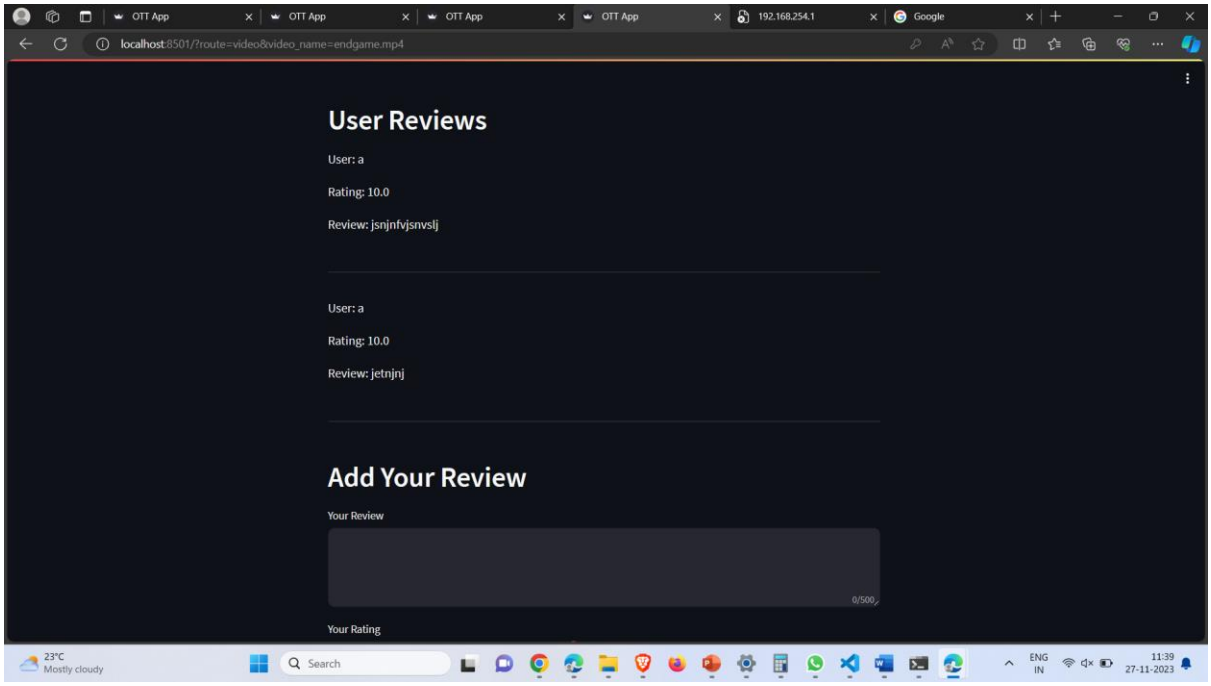
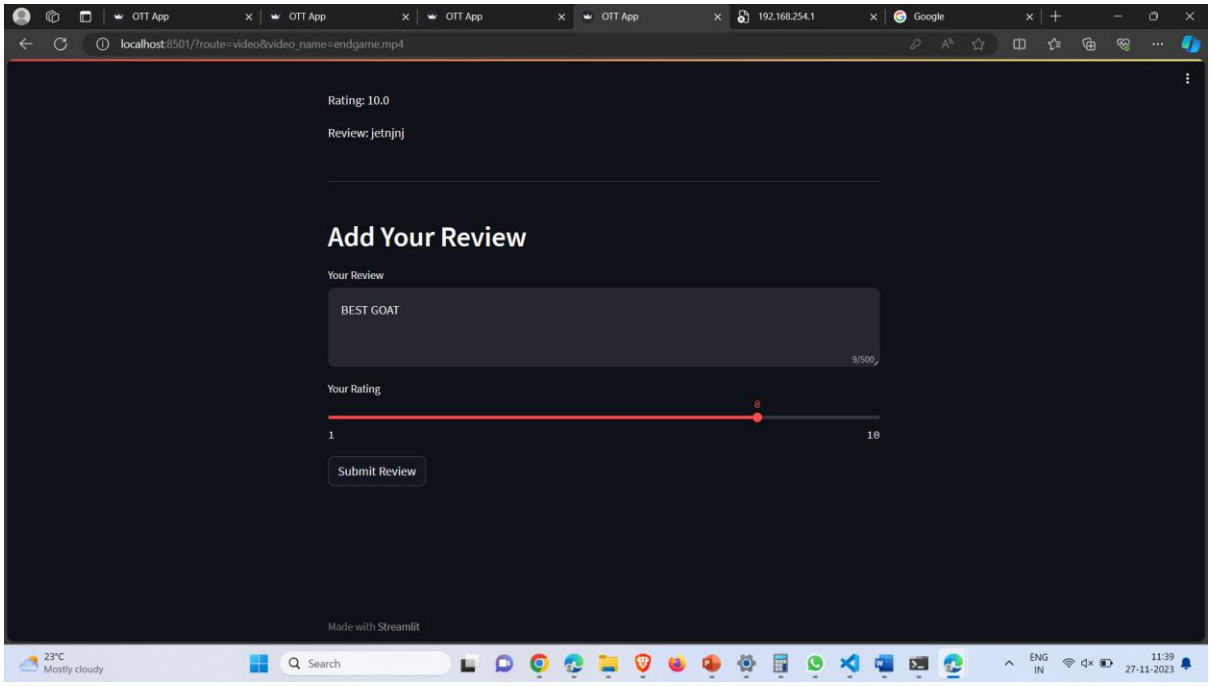
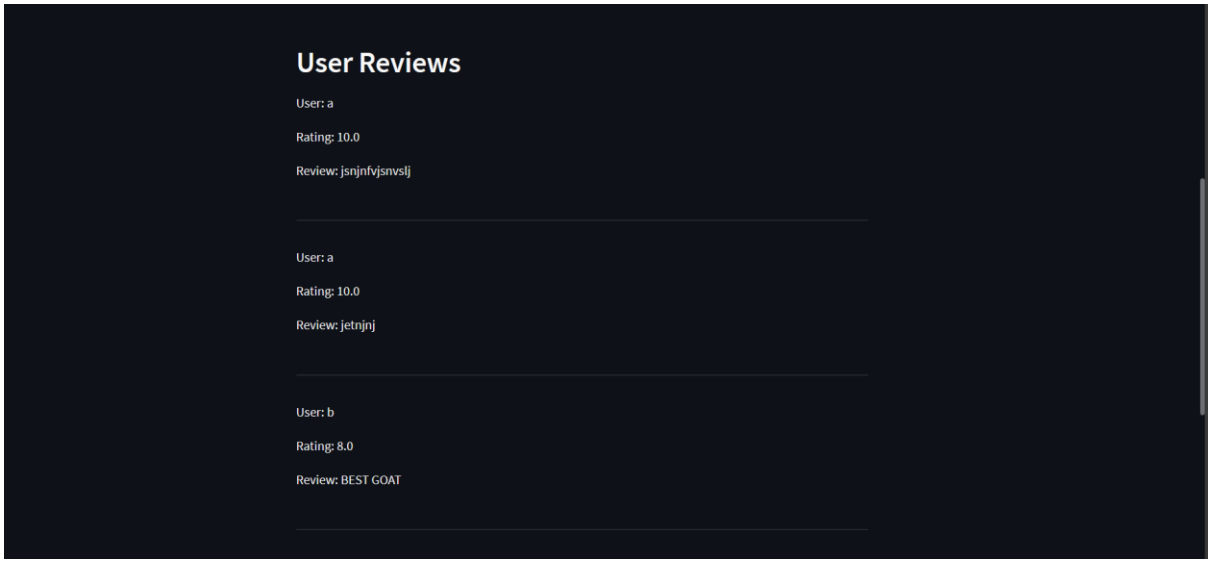
Subscription Plan
Change Subscription Plan
Premium
Subscription plan changed to Premium
endgame Poster
Year of Release: 2023-11-24
Description: sdjknbskj
Duration: 200 minutes
Genre: action
Rating: 10.0
23°C
Mostly cloudy
Search
ENG
IN
11:37
27-11-2023


OTT App
OTT App
OTT App
OTT App
192.168.254.1
Google
localhost:8501/?route=video&video_name=endgame.mp4
Welcome to the OTT App
Video Player
0:00 / 2:26
User Reviews
User: a
23°C
Mostly cloudy
Search
ENG
IN
11:38
27-11-2023




```
mysql> SELECT * FROM REVIEW;
+----------+--------+-----------+--------+-----------------+------------+
| ReviewID | UserID | ContentID | Rating | Comment         | Timestamp  |
+----------+--------+-----------+--------+-----------------+------------+
|        1 |      2 |         4 |     10 | jsnjnfvjsnvslj  | NULL       |
|        2 |      2 |         4 |     10 | jetnjnj         | NULL       |
+----------+--------+-----------+--------+-----------------+------------+
2 rows in set (0.00 sec)
```






```
mysql> SELECT * FROM REVIEW;
+----------+--------+-----------+--------+-----------------+-----------+
| ReviewID | UserID | ContentID | Rating | Comment         | Timestamp |
+----------+--------+-----------+--------+-----------------+-----------+
|        1 |      2 |         4 |     10 | jsnjnfvjsnvslj  | NULL      |
|        2 |      2 |         4 |     10 | jetnjnj         | NULL      |
|        3 |      3 |         4 |      8 | BEST GOAT       | NULL      |
+----------+--------+-----------+--------+-----------------+-----------+
3 rows in set (0.00 sec)

mysql>
```

Trigger to modify rating:

```
mysql> SELECT * FROM CONTENT;
+-----------+--------------+-------------------
```

```
mysql> SELECT * FROM content;
+-----------+---------------+-----------------------
```