**Database Management System Project**

**HULU Media Application**

**Introduction of the company**

This abstract is for **HULU**, a company that streams online TV shows, Movies, and Originals, Premiums. Hulu is a leading premium streaming service that provides live and on-demand TV and movies. This report provides a brief overview of a business model and the organization's activities from a business standpoint.

**User Requirements**

1. The HULU app categorizes media into TV shows and movies, and it also streams Premium and Originals.
2. Every media type has a unique MediaTypeID identifier which will uniquely identify the media as a TV Show, Movies, Premiums, or Originals.
3. Additionally, for each media type, we can store information such as Genre, Country, Censor Rating, etc.
4. Each media type must be either Movie or TV Show.
5. Information like number of seasons of TV Show or length of a movie is stored.
6. Originals can have free as well as paid media types. However, Premiums will have only paid media types.
7. Each user has a unique login id as a UserID along with a login password.
8. Every user has the option of being a Subscriber or a Free user. Subscribers have access to both paid and free media, whereas free users do not.
9. The details of each user's subscription plan, such as plan type, plan price, and video quality, are recorded.
10. Every subscription payment detail is recorded, and each user's payment of plan is identified by a unique TransactionID.
11. If an issue with the application arises, a user can open a ticket, and detail for each issue is recorded with a unique DefectID, which will be resolved by a Support technician.

**Cardinality Constraints**

1. The HULU application can have one or more of its Originals but, every original is exclusive to the HULU application.
2. The HULU application can have one or more of their Premium contents but, every Premium content is streamed only HULU application.
3. Every user must have one login to the application, but the application can have zero or multiple users logged in.
4. Every user must have a subscription plan. Also, every subscription plan can be subscribed to by one or more users.
5. If a user decides to upgrade their plan, they can have multiple payment transactions for the same plan. However, each transaction should be carried out by single user login.
6. In the event of an issue, each user can raise one or more issues with customer service, but only one logged-in user can raise a ticket at a time.
7. An assigned technician can resolve multiple tickets at once, but each ticket can only be resolved by one technician.

**ER Diagram for HULU Application:**

Diagram

Description automatically generated