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Module:5

Practical Software Engineering



Database Design

Application Name: Entertainment App

Technology-used :Mern Stack

Application features

Efficient content management: The application holds the efficiency to manage all the movies and tv shows in a good manner.

User Authentication: It allows users to sign up securely and data of the user has been stored for another usages. He does not have to sign up again and again.

Select By Genre: User can select the movies and shows according to the genres.

Mylist/Bookmarks: User can bookmark the movies and tv-shows that he wants to watch in future. He can access them by navigating to the specific page for this easily and can access to any movie.

Database Schema

- A **well-designed database** ensures that users can find what they want to watch quickly and that the platform can grow smoothly as more users join.
- Database model for the application is as following:
- It consists of interconnected entities representing users, user-contents , my-list and website content.
- Common Entities and Attributes are enlisted below:

User:

- UserId: Its the Unique id for every user who will signup.
- Name: Its the name of the user that user will enter for signing up and will be stored inside the database.
- Password : Its the password that user will enter
- email: Its the email of the user.(he can login using the same one only)

Content:

- ContentId : its the id of the movies and tv showsthat is unique for every movie and tv show.
- Title : Its the title of the movie or tv show.
- Image: Its the image of the the tv show or the movie.
- Genre :The genre of the movie or the tv show.

UserContentInteraction:

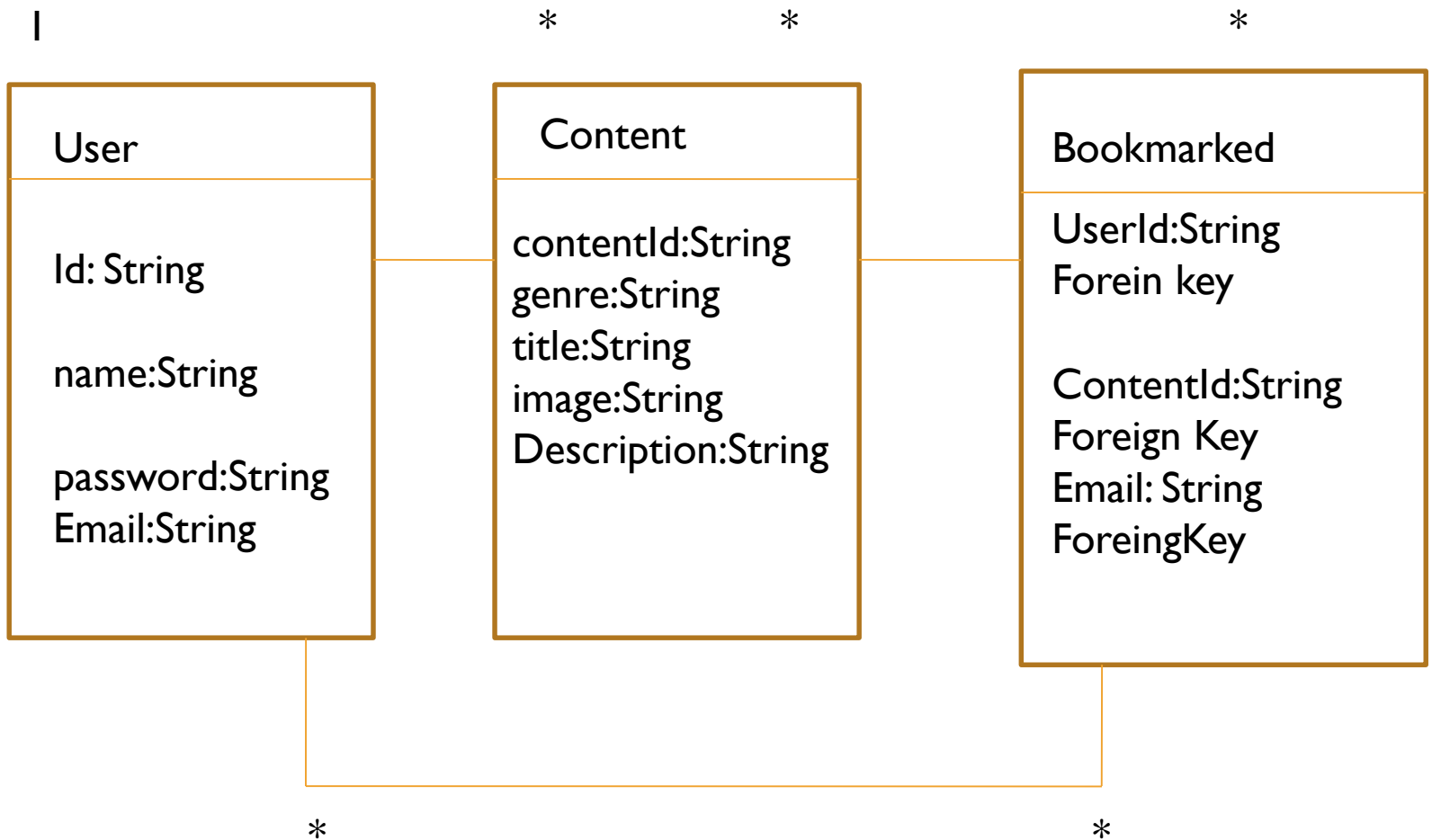
- UserId : Unique identifier for usercontentInteraction.
- interaction-type : its the bookmarked content.

Bookmarked-content(my-list):

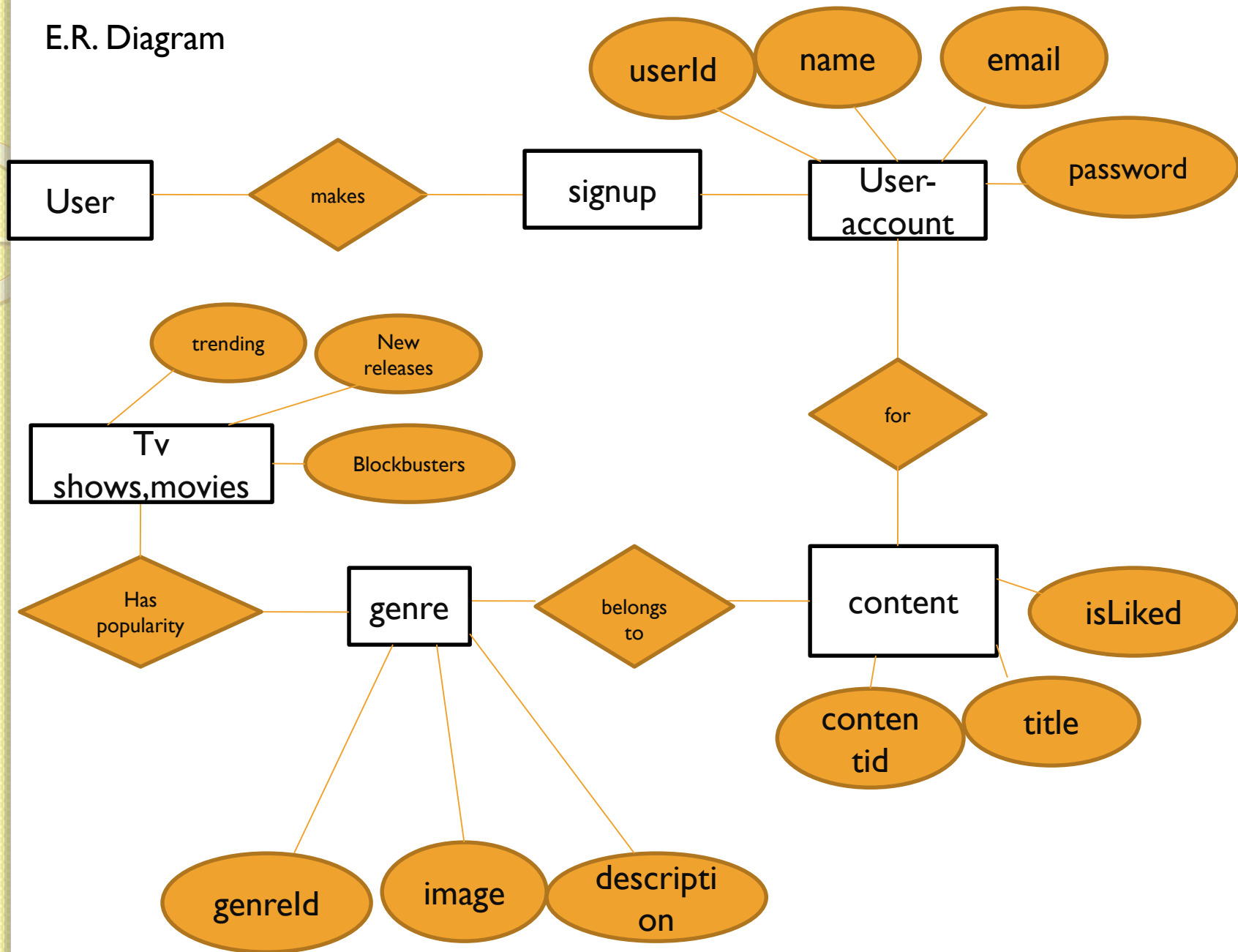
- userID:The unique id of the user.
- ContentId: The contentID (movieId ,TvShowId).
- email:Its use to get the liked movies.

Relationships:

- 1.User-content : One to many
- one user can access the multiple content but multiple content can be used by multiple users its not bounded for one user only.
- 2.user-bookmarked: One to many
- One user can have multiple content items in their bookmarked list , but each content item can be in the bookmarked list of multiple users.
- 3.Content -genre: many to many
- Multiple content items can belong to multiple genres, and each genre can be associated with multiple content items.



E.R. Diagram




Sdlc model :Agile model

- Agile is an iterative and incremental model that promotes flexibility and customer collaboration. Development is carried out in small iterations or sprints.



Phases:

- **Requirements Gathering**
- **Planning**
- **Design**
- **Development**
- **Testing**
- **Review**
- **Deployment**

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- **Benefits:**
 - High flexibility and adaptability to changes.
 - Continuous customer involvement.
 - Frequent delivery of functional software.
 - Better risk management.



Thank you