University of British Columbia, Vancouver

Department of Computer Science

CPSC 304 Project Cover Page

Milestone #:	3
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Date: <u>July 25, 2024</u>

Group Number: 22

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

CPSC 304 Streaming Service Database

Project Members: Keean Vidyarthi, Suhayl Patel, Weena Wibowo

Project Summary

Our project's database represents the structure of a streaming service, from the perspective of a streaming service provider (ex. Netflix). We've decided to model entities like Users, Subscriptions, Media, and additional aspects that would be beneficial for a streaming service provider to manage.

The domain of our application is within the streaming service industry, targeting providers who offer a variety of digital content to their users. This application is designed for streaming service providers to efficiently manage and monitor various aspects of their service, including users, subscriptions, media producers, and more. Our goal is to create a comprehensive and user-friendly database solution that simplifies the processes related to managing a streaming service.

Our application will keep track of users, the subscriptions they hold, the media content they consume, and the media producers who create this content. This will include user account information, subscription plans, and entities associated with pieces of media (directors, actors, producers). By doing so, a streaming service provider could easily analyze user behavior, optimize content delivery, and manage relationships with media producers.

Our service can be integrated with the streaming provider's existing system or function as a standalone service. The application will be constantly updated with new data from user interactions, content uploads, and subscription changes, making a robust database management system essential for maintaining service efficiency and reliability. Ultimately, our database solution is designed to provide streaming service providers with the tools they need to manage their operations effectively and understand their user base.

Functionalities

- INSERT
 - ex. Inserting a new media producer into the media producers database
- DELETE
 - ex. Deleting a genre from the genres
- UPDATE
 - ex. Updating a user's subscription in the subscription database
- o SELECT
 - ex. Selecting a user (or multiple) to edit in the user database

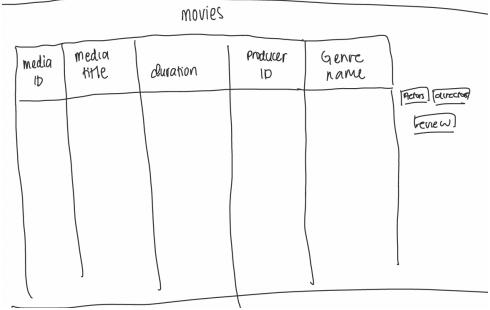
Pages

Navbar:

Stream Insights Subscription Mulie

TV shows

- /
- Home Page (design pending)
- /Media
 - Contains media subclasses, which are currently "Movies" and "TV shows"
 - /Media/Movies
 - Contains only Media entities belonging to the "Movie" subclass
 - Filter by Genre
 - Display Director, Actor, Genre, Media Producer, Review information



- /Media/TVshows
 - Contains only Media entities belonging to the "TVshows" subclass
 - Filter by Genre
 - Display Director, Actor, Genre, Media Producer, Review information

		TV SMO	WS		
media 10	media title	It of eps	Producer ID	Genre	
					Actors (ottrectors) Frevie W Exprodu

• /Users

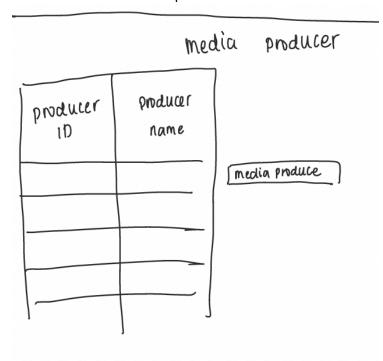
- List of users with associated subscriptions
 TODO: Add credit card as attribute for user?
- TODO: Rephrase Should be able to add delete edit etc.

USETS

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/MediaProducers

- List of media producers
 TODO: Rephrase Should be able to add delete edit etc.



/Genres

- List of genresTODO: Rephrase Should be able to add delete edit etc

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name	# of media	15 Popular Genre?	
			-
			1

/Subscriptions

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• /Reviews

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• /Episodes

Episodes

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• /Actors

Aetor

Actor	
	n ame

• /Directors

DIRCOPI

b irector	Director name

Todo/Timeline

DATE (week of)	Task	Assigned To
July 21st, 2024	Upload old milestones to GitHub	Weena
July 21st, 2024	Brainstorm database functionalities	Whole group
July 21st, 2024	Write project description/summary	Keean
July 21st, 2024	Create hand-drawn mockups of each page	Whole group
July 21st, 2024	Commit mockups to GitHub	Suhayl
July 28th, 2024	Figma mockup	Whole group
July 28th, 2024	Spearhead frontend (React)	Weena
July 28th, 2024	Spearhead backend (mainly Node.js)	Keean
July 28th, 2024	Spearhead database integration with project	Suhayl

Queries will be done end-to-end so each group member has an opportunity to learn the front-end, back-end, and database integration of our project. The tasks assigned with "SPEARHEAD" simply refer to the group member that is responsible for ensuring that aspect of the project is fully implemented and functional.