CS 411 PT1 Stage 1 (inc)

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Team #43   InfelPhira

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"While the proposal mentions functionality like user registration, comments, and changing tags, it doesn't explain how these features will be implemented or integrated into the platform. How will users interact with these features, and how will the database handle user-generated content? Please add what data will be collected for the same and how."

We will collect some of the main data in the database and make their combination in several forms to satisfy our functionality. Firstly, we will connect the channel information in the youtube trending database, including ChannelId and ChannelTitle, to provide the search and like function to user. To be more detailed, the channel feature can also be linked to the comments and likes under each video to provide the category analysis for the video creators.

Secondly, we will collect the video information in the youtube trending database, including the title, PubulishedAt, TrendingDate, CategoryId, Tag, ViewCount and Likes under each video. We combine the attributes CustomerId and UserId into a form to build the transfer form, named Bunch, which is a form recording the favorite list of each user. User can create the favorite list and follow others' favorite lists. We specify the favorite lists by BunchId and specify the video in the favorite lists using VideoBunchId. We also record the likes and comments in each bunch to analyze personal preference, connected using UserId and BunchCommentId. To analyze more detailed preference and hot topic, we also collect the comments followed by some comments and analyze their bunch features, combined in the form named BunchComment and infer the BunchCommentId. Moreover, we collect each video's tags and output the main features like tags of the video with more comments and likes to perform some leading function. And we will specify more exactly about the audience group using the TrendingDate, PubulishedAt and CategoryId information in the database.

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"The proposal mentions existing tools like YouTube Analytics and Google Analytics but doesn't clearly explain how your application will differentiate itself or provide unique value to YouTubers. What features will set your application apart from these existing tools?"

The current mainstream media platform primarily caters to the audience and video consumer services. However, the big data and personalized recommendation mechanisms employed by these platforms are passive and inefficient, only enabling user profiling. In contrast, for video creators, the recommendation mechanism of video platforms lacks focus and professionalism. Our website aims to serve video creators by analyzing popular trends in video creation through data analysis while providing sorting and filtering options. The most significant innovation lies in our implementation of a dedicated recommendation mechanism called "bunch." This allows users to efficiently and autonomously select videos to group together based on their specific interests or needs. Users can create multiple bunches without worrying about any mutual influence between them; each bunch has independent recommendation mechanisms that cater to different requirements. This approach facilitates finding inspiration for video creation or efficiently collecting information within a particular field.

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"Your creative component needs more clarification. What is the use of the recommender?"

The purpose of the recommendation system is to provide users with personalized video recommendations. It will analyze the user's operational history, including their preferences, keyword searches, and selected filters, to provide users with customized video recommendations, and if a bunch is selected, the recommendation mechanism will reinforce the recommendation tendency based on the bunch content. This will enhance the user experience and help them find videos they are interested in more easily.

④

"The UI mockup just shows the screen where the popular videos + popular tags are shown. Can you elaborate on the screen where the user input is taken?"

Our UI interface firstly includes the register and login part in the right top of the screen. The new user can click on the icon register to sign in using their personal information including the UserId in their YouTube account. And the old user can just log in to get help. And their will be an icon on the top to create a favorite list, which can create new BunchId, VideoBunchId and BunchCommentId to connect to the forms about bunch. The user can also click on multiple videos to combine a lot of videos in the same favorite lists. Their also will be icons about comments and likes. Importantly, on the top left side, their will be a search bar used for searching the favorite lists and video information. Under each video, there will be clear tags and topics that instruct the user to find the preference the specific audiences. And under each favorite list, there will be clear comments analysis and preference analysis to help the creators find their target creating resource.