University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: ___1_____

Date: ___2021/Oct/8th_____

Group Number: ____52_____

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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

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Milestone 1 Proposal

Group 52

We're trying to model a domain that is a video-sharing system. It is suitable as a CPSC 304 project as we're going to focus on the data that is stored in a system composed of various components including users, accounts, channels, recorded videos, administrators, help centers, forums, live streams, and sponsor companies. Specifically, a user is assigned a unique user id while each user is able to maintain multiple accounts. Besides, more relevant information is stored as attributes (e.g: VIP or Non-VIP, user name, subscription). As for the channels component, each channel is created by users and consists of its unique channel id, status, show list (a list of the containing videos' ids), multiple recorded videos (for each having its unique video id, a time long, create time, status, and a tag to indicate whether this recorded video is only for VIP users). Except for recorded videos in channels, the users can create and watch the live streams, and post posts on forums with various tags as well. The help centers are responsible for accepting help requests, and fixing them, while the administrators are in charge of checking the legality and validity of accounts and recorded videos, and setting the status of corresponding illegal or invalid accounts or recorded videos into "blocked". Furthermore, sponsor companies represent the sponsors of channels or recorded videos.

This project is anticipated to benefit the company that wants to develop a video-sharing service by providing an operational and integrated structure that makes a proper

connection within all components in the company. It makes components easily communicate with each other and helps them achieve the most efficient cooperation by going through all the relationships.

There will be two different classes of operators of the system: the users (normal users and VIP users who will be eligible to watch some privileged videos) and the administrators. Users are allowed to create their own channels (with given unique channel ids and start producing recorded videos) or live streams (with given unique live stream id, start date and end date) and watch all of them, and will be able to access and operate their accounts and request helps from help center with unique help issue ids if any problem with accounts, channels, live streams, forums or recorded videos occur. The administrators will be able to access the statuses of all accounts, live streams, forums and recorded videos and set their statuses to be blocked if their contents or behaviors are invalid or against community rules.

Our project would be constructed using the Oracle database system provided by UBC Department of Computer Science. Because PHP (Hypertext Preprocessor) can be used to develop dynamic and interactive websites, which highly meet our needs, PHP would be used as our web scripting language to build the web. Any special software or hardware would be out of our consideration.

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ER Diagram