

## CPSC 304 Project Cover Page

Milestone #: 3

Date: Mar. 12<sup>th</sup> 2024

Group Number: 61



Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
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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

### Project Summary:

Our project is a database that will model social media users, accounts, the posts various accounts can make, and interactions made between these accounts (which accounts follow which accounts). Our database models each individual user as an entity and links them with multiple accounts. Our database keeps a record of interactions made between accounts such as which account liked which post, as well as the ability to look-up all posts given a hashtag. We ultimately look to model the social media interactions and capabilities using our database.

## Project Timeline:

For our project we have chosen an end-to-end approach to split the remaining tasks. We will be implementing the GUI in parallel with the other tasks, hence why we have given it the latest “due date”.

### *A note on how to interpret our timeline*

We have decided to list out the tasks we foresee for the project and split them evenly.

The name and date beside each task represents:

1. The person responsible for the completion of that task
2. The latest agreed upon date for completion of the task

### Task 1

- SQL script to create all the tables and data in the database:
- 1. NotificationSend      **Anna Mar 18**
- 2. User      **Anna Mar 18**
- 3. BirthdayGen      **Anna Mar 18**
- 4. StoryShare      **Zoey Mar.17th**
- 5. Reel      **Zoey Mar.17th**
- 6. FeedPost      **Zoey Mar.17th**
- 7. Hashtags      **Zoey Mar.18th**
- 8. HashtagHasPosts      **Zoey Mar.18th**
- 9. Useridentity      **Edmond Mar.18th**
- 10. LikesDoubletagHas      **Edmond Mar.18th**
- 11. makeComments      **Edmond Mar.18th**
- 12. Contain      **Edmond Mar.18th**
- 13. AccountOwns      **Edmond Mar.18th**
- 14. PublishPosts      **Anna Mar 17**

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## Task 2

- Queries: INSERT Operation (create account / post / hashtag /...) **Zoey, Mar.27th**
- Queries: DELETE Operation (delete account / post / hashtag /...) **Anna Mar 28th**
- Queries: UPDATE Operation (update account / post / hashtag /...) **Edmond Mar.28th**
- Queries: Selection **Edmond, Mar. 25th**
- Queries: Projection **Zoey, Mar. 31st**
- Queries: Join **Edmond, Mar. 25th**
- Queries: Aggregation with Group By **Anna Mar 30th**
- Queries: Aggregation with Having **Anna Mar 31th**
- Queries: Nested Aggregation with Group By **Zoey, Mar.28th**
- Queries: Division **Edmond, Mar.24th**

## Task 3

- Front end GUI, we plan on working on this incrementally, but agree to have the finished versions by the listed date:
- We planned out 3 pages so far
  - Account page with buttons:
    - Button for Create accounts with input info **Zoey, April.3rd**
    - Button for Deleting an account **Anna April 3rd**
    - Button for Updating an account **Edmond April 3rd**
  - Post page with buttons:with details for each specific page(number of likes / num of Comments / hashtag / etc)
    - Button for Deleting a Post **Anna April 3rd**
    - Button for Deleting a Comment on a Post **Anna April 3rd**
    - Button for Deleting a Hashtag on a post **Anna April 3rd**
    - Button for Updating a Post **Edmond April 3rd**
    - Button for Updating a Comment on a Post **Edmond April 3rd**
    - Button for Updating a Hashtag on a post **Edmond April 3rd**
    - Button for Creating a Post **Zoey, April.3rd**
    - Button for creating a Hashtag on a post **Zoey, April.3rd**
    - Button for creating a comment on a post **Zoey, April.3rd**
  - Search Page with dropdown boxes: to do the search, projection or select etc
    - Button for Projection(Select columns) **Zoey April. 3rd**
    - Button for Selection **Edmond April. 3rd**

- Dropdown box for Nested Aggregation with Group By (Select certain posts based on hashtag and other info)  
**Zoey April. 3rd**
- Buttons for Nested Aggregation with Group By (Select certain posts based on hashtag and other info)  
**Anna April. 3rd**
- Buttons for Nested Aggregation with Having (Select certain posts based on hashtag and other info) **Anna April. 3rd**
- Button for filtering on certain conditions and a dropdown box for selecting the condition **Edmond April. 3rd**
- Button for Division operations **Edmond April. 3rd**
- Option for Join operations **Edmond April. 3rd**

#### Task 5

- Milestone 4 PDF file submission **Zoey, Anna, Edmond Apr 4th**
  - A description of how your final schema differed from the schema you turned in. If the final schema differed, explain why. **We will each be responsible for our own implemented schemas**
  - A copy of the schema and screenshots that show what data is present in each relation after the SQL script from item#2 is run (No DDL statements ) **For this one, we will just each do the ones that we wrote in script)**
  - A list of all SQL queries used and where it can be found in the code **(For this one, we will just each do the ones that we implemented)**
  - Screenshots demonstrating the functionality of each query using the GUI **(For this one, we will each do the screenshots for the ones that we implemented)**

#### Task 6

- Project Description (ReadMe file) **Anna April 5th**
  - A short description of the final project, and what it accomplished.
  - This should be in a PDF.