University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 3

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Group Number: 25

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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 to create a social media website where users can post, discuss, and learn about art in various museums, galleries, and private collections around the world. There will be a typical social media dynamic of users, following, posts, comments, badges, etc as well as a structure around artworks, artists, and the places and collections art is displayed in. The idea is users will be able to experience the app in two ways - one in a more interactive way, viewing a curated feed of content the people they follow have posted about various artworks, and another experience where they can search various parameters about artists, museums, and artworks to gather a collection of information and insights others have posted about them.

Timeline & Tasks

Each of these tasks is intended to be a 'full-stack' implementation of the feature, including both backend endpoint (including DB queries) and a basic GUI frontend (using TailwindUI). The frontend will be simplified and condensed further in a final step. Within each phase, we intend to work on our tasks in parallel.

October 30th
- Setup database Emilie Ma
  - Import the SQL DDL into Oracle on the remote servers

November 10th
- Search, view, and log in as/create a user Ziven A
  - Follow a user
  - The basic read functionality can be implemented via a SELECT … WHERE, and user creation can involve INSERTing into the database.
  - A potential issue is keeping the user logged in while using the application (which will require a frontend cookie or something similar), as well as accepting logins. We'll need to extend our ER diagram to include an attribute for password hash, and figure out how to hash passwords on the backend securely.
- Make a post @Youssef
  - View, like posts
  - Viewing and making posts seem relatively simple, as they'd require a simple SELECT/INSERT INTO SQL statement.
- Make a comment Emilie Ma
  - View, like comments
  - This can be done in tandem with work to make the post creation interface, and can be a separate form under a post. We can reuse much of the post creation logic.

November 20th
- View 'feed' of followed users' posts Ziven A

- - We'll have to consider how we retrieve all posts from all the users that a specific user follows.
  - Search and view a collection, and location @Youssef
    - This will be a simple rendering of the attributes already associated with a Collection or Location. The SQL for this should be a straightforward SELECT … WHERE.
  - Search and view a… Ziven A
    - artist
    - art piece
    - badge
    - These will primarily copy the implementation from searching and viewing a collection.
  - Creating badge earning criteria Emilie Ma
    - This may be challenging as we aim to have certain badges that unlock after having visited X number of museums, made Y posts, etc. We'll need to figure out how to automatically trigger insertion of a 'Earns' row after a user fulfills one of the badge earning criteria.

November 27th
- - Prettify frontend Emilie Ma
  - We anticipate that while developing the app, we'll focus on the functionality / ease of development and not the usability of the app. This task will focus on splitting functionality up across separate pages to make the GUI more like a conventional social media app and on redesigning frontend components. We plan to do this via the React Router and TailwindUI libraries.