University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 32

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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 Description - PawLog

We propose to make an application for pet owners to connect and share their experiences and advice over posts about their favourite furry friends. The database models the following key components including:

- **Users**: Each individual will have a profile where they can either create and share content via posts. This profile will include basic information in a bio such as username and join date. A user
- **Communities**: Users can join communities they are passionate about such as dogs, siamese cats, or Vancouver pets. These communities will have a specific topic they support, description, and date created.
- **Achievements**: Users can also earn rewards based on their activity within the platform. An achievement will contain the name and the requirements needed to earn it.
- **Posts**: Users can make posts about either pets they own or share their knowledge about a topic they are a subject matter expert of. A post will contain the title, content, and date created
- **Notifications:** Users will receive notifications in an inbox which keep track of when they were sent and whether or not they have been read.They are assigned urgency values so that users can filter out only the most important ones.
- **Pets:** Pet owners can create profiles for their pets which collect all the posts involving said pet. These pet profiles also include birthdays so that everyone can congratulate Rover for being a good boy for another straight year.The included attributes are species, pet_id, birthday and name.
- **Comments:** A post can contain any number of comments, which have the attributes content, created at (a datetime object), and comment_id. A comment may be in a "replies to" relationship with another comment, and each comment is associated with exactly one post.
- **Tags:** A tag has only one attribute which is its name. However making a tag an entity instead of an attribute allows a post to be associated with any number of tags, which are managed by a relationship.

Database Specifications

The database will provide the ability to create profiles for both users and pets, storing personal and descriptive information for both. It will also support users creating a post about their favourite pet or leaving general advice from their experiences about a specific topic. Additionally, users can also comment on pre-existing posts, as well as leave replies to other comments allowing users to interact. Users can also join communities of like-minded individuals who share content they enjoy. Finally, users can browse posts and find specific posts that meet a certain criteria such as filtering by fields such as post owner, pet, or topic.

Application Platform

For our hosting platform we will use the student cluster servers provided by the university. The database management system that we have chosen is Oracle, which we plan on connecting to a backend written in Java. The front end will be written JavaScript and the React framework.

ER Diagram