University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 3

Date: October 25, 2024

Group Number: 72

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Edward Liu	55997308	e9s4m	edwardtliu8@gmail.com
Kobe Shen	13079694	b0j3y	Shenkobe.111@gmail.com
Yang Yu	45834330	n5p8x	yuyang2003m@163.com

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 aims to model the whole pet adoption and post-adoption animal care ecosystem, allowing users to browse and adopt pets hosted at the shelter, allowing animal specialists like veterinarians to view, store and update a pet's medical documentation and for trainers to work with shelters and train their respective pets.

Timeline:

This timeline is an initial version and the task assignment and deadline may be adjusted based on situation. (the GUI will be developed simultaneously with the database functionalities)

Task	Description	Approximate Deadline	Assigned Member(s)
SQL initialization scripts	DROP, CREATE tables and INSERT **sufficient** data to database	Oct 30	Edward, Kobe, Yang
Implement INSERT functionality	e.g. User can insert a Documentation by providing required attributes, where PetsId and VeterinarianContact are FKs. if they do not exist in relevant table, reject the insertion	Nov 3	Edward
Implement UPDATE Functionality	e.g. User can update the Owner Address of Pet, constraint ON UPDATE CASCADE	Nov 3	Kobe
Implement DELETE functionality	e.g. User can choose value(s) from Trainer to delete, constraint ON DELETE CASCADE	Nov 3	Yang
Implement Selection functionality	e.g. User can search for Pet based on **combination** of conditions including Age, Species, Species, HealthCondition, etc.	Nov 10	Yang
Implement Projection functionality	e.g. User can select specific attributes to view about their pet like, the CoatType, or Barking Frequency of Dog	Nov 10	Kobe
Implement Join functionality	e.g. Join Owner and AdoptionApplication to find the	Nov 10	Edward

	names of owners who have been approved		
Implement Aggregation with GROUP BY functionality	e.g. User can count the number of each Pet species, or query max/min/avg of Pet age	Nov 17	Yang
Implement Aggregation with HAVING functionality	e.g. User can find all Pet breeds that have more than 5 available in the shelter	Nov 17	Edward
Implement Nested aggregation with GROUP BY functionality	e.g. Find Pet breeds with an average age older than the overall average age of the shelter	Nov 17	Kobe
Implement Division functionality	e.g. User can query the Shelters which have PurchasesFrom all Suppliers	Nov 18	Edward
Error handling	Handles user errors such as trying to insert a duplicate value, invalid input, etc.	Nov 21	Kobe, Yang
Implement GUI	- Integrates front-end and back-end - user-friendly layout and query result - ensures sanitization - user receives success or failure notification (will be developed simultaneously with the database functionalities)	Nov 25	Edward, Kobe, Yang
Testing	- Tests insert, update, delete, and query functions correctly - checks user interface and error messages - ensures data correctly passed between front-end and back-end	Nov 26	Edward, Kobe, Yang
Documentation	Create a PDF file, including a copy of SQL queries and 1-2 sentence description	Nov 27	N/A