CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 37

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Jibek Dzhunusova	38422853	l4n8p	dzhunusova260503@gmail.com
Cathy Lei	12532537	i9q8h	cathy.lei2004@gmail.com
Leo Qu	17720962	x0a7w	leoqu2004@hotmail.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

2.
    a. The domain of the application is pet adoption and shelter management. Our system focuses on helping shelters manage pet adoptions, donations, and foster assignments. It keeps track of the shelter staff, donors, adopted pets, fostered pets, pets' medical records, and vets who performed the pets' medical tests. The overall purpose of our application is to help shelters efficiently manage the process of finding pets a safe home, whether temporary through a foster parent or permanent through an adopter.

    b. The database models essential shelter management operations, ensuring efficient tracking of pet care, fostering, adoption, and donations. For example, when a shelter staff registers a newly rescued pet, they can log its details, schedule a veterinary check-up, and update its medical history after treatment. If an adopter applies, the system verifies their eligibility, processes the adoption fee, and finalizes the pet's transfer. Foster parents can also be matched with pets based on their experience level, with the system tracking the duration of each foster assignment. Additionally, when a donor contributes to a shelter, the system records the donation and links it to shelter funding needs ensuring proper financial management.

3. Users will be able to store and update details of a pet, such as their breed, name, and medical history, as well as check if the pet belongs to a shelter. They will also be to search up information surrounding the shelter, and the employees that work there. This includes vets that operate at the shelter and the various tests that they run on the animals. In addition, donors can use the database to track their info and the donations they've made, as well as the contributions of others.

4. See second page of pdf.

6. N/A

7.   We confirm we did not use AI tools in this assignment.

Pet Adoption & Shelter Management

Entity-Relationship diagram for Pet Adoption & Shelter Management.

vet (vid, name, licenseExpiryDate)

performed Medical Test (testType, testResult)

medical record (recordNum, medicalConditions, vaccineHistory)

hasRecord

pet (pid, species, breed, name)

ISA — total disjoint

ShelterPet, **AdoptedPet**

belongsTo

Staff (eid, hourlyWage, position)

worksAt

Shelter (name, address)

donates (donationAmount)

donor (did, name, donorType)

adopt

adopter (aid, name, address, phoneNum, numOfChildren)

adoption Application (aaid, adoptionFee, adoptionDate)

fosters

fosterParent (fid, name, address, phoneNum, experienceLevel)

fosterAssignment (faid, startDate, endDate)