Team Name: import team_name

Project Name: PetCare

Members: Edgar Lopez, Emily Tehrani, Matthew Sanchez

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Motivation: Managing the care of household pets is an extensive responsibility and can often be left to a single caretaker. Our mobile application allows multiple people within a household to care for a pet by displaying the daily errands to be performed for a pet (i.e. feeding, walking, etc.) and permitting any of them to mark the job as complete when it's been fulfilled. This thus makes keeping track of whether the animal has received the care it needs easier for everyone within the household.

Expected Functionality:

(IMPORTANT: final project will be graded by how much you complete your expected functionality)

- User accounts (to allow multiple people the opportunity to fulfill a certain task)

- List visualization of current chores to be completed each day

- Interactive checkbox by each task to indicate if the chore was fulfilled or not

- An "Add Chore" button to create new tasks (also with a "recurring" option to set activities like "FEED" or "WALK" on a repeating basis)

- Implement notifications/reminders for users to complete a task X minutes before specified deadline

- Data on all users' devices (who are opt'ed in for a certain pet) should update in real time when another user marks a task as completed, adds a new task, etc.

Wireless Technologies Used: WIFI

Implementation Overview

The client side will use Android Studio as the platform to provide the user interface, and display updated chore data whenever another user has modified the task status. A MongoDB database will be responsible for holding onto task information for each specific pet, being updated with query functions in PyMongo. The server side will be implemented using Node.js, and Rest API (possibly Flask) will be used to map the HTTP requests to specific MongoDB queries. Every user with access to a "Pet" record can contribute and receive the shared information using this pipeline. The updates will be available to all users assigned to that specific pet using Wifi.

Responsibility Assignment:

Backend: Edgar Lopez

Rest API: Emily Tehrani

Frontend: Matthew Sanchez

Work Schedule:

Week 3 - Setup Backend

Week 4 - UI/Rest API

Week 5 - UI/Rest API

Week 6 - Finish Basic Prototype

Week 7 - UI bells and whistles

Week 8 - Write up report

Week 9 - Present and submit term paper