Team PCS (Potato Chip Scapegoat) Project Proposal (Team #5)
Team Members: Jackson Trust, Kate Pendavinji, Megan Kang, Ahmed Alali, Tyler Apple

Application Name: Paw Trax

Application Description:
  Paw Trax is an application which utilizes data collected on different dog breeds in order to promote active, healthy dogs. Users can enter their dog breed, age, and weight to get a veterinary-approved recommendation on their dogs activity. Users can also input their dog's activity such as going to the park for one hour, a mile long walk, etc. Along with inputting the data manually, you can also track your walking distances through GPS and have cut out, labeled routes to choose from. We will also implement features for the overall health of the dog, so based on if physical activity goals are met they can get treat, food, or enrichment toy recommendations as well.
  There will be a social aspect of the app as well. You can connect with your contacts and keep up with your friends' dogs' and have the possibility to meet up and socialize your dogs. On top of this there may be an explore feature where you try to find other dogs outside of your circle who you may socialize your dog with. This explore feature could also offer an opportunity for people to walk other people's dogs who are occupied. Since there will be access to your information, there will be privacy settings included in order to provide the ability to be selective on who sees your daily routes and activities. We can also include a selection of dog parks in entered zip codes.

Vision Statement:
  This app is for dog owners who care for their dog's health and happiness. Paw Trax is a web application that ensures a happy, healthy, and social dog.
Unlike dog walking apps which only provide opportunity for people who are preoccupied to have people walk their dogs, our product allows owners to take initiative and manage their dogs' activities on their own similar to human health apps.

Version Control: Our GitHub repository link is
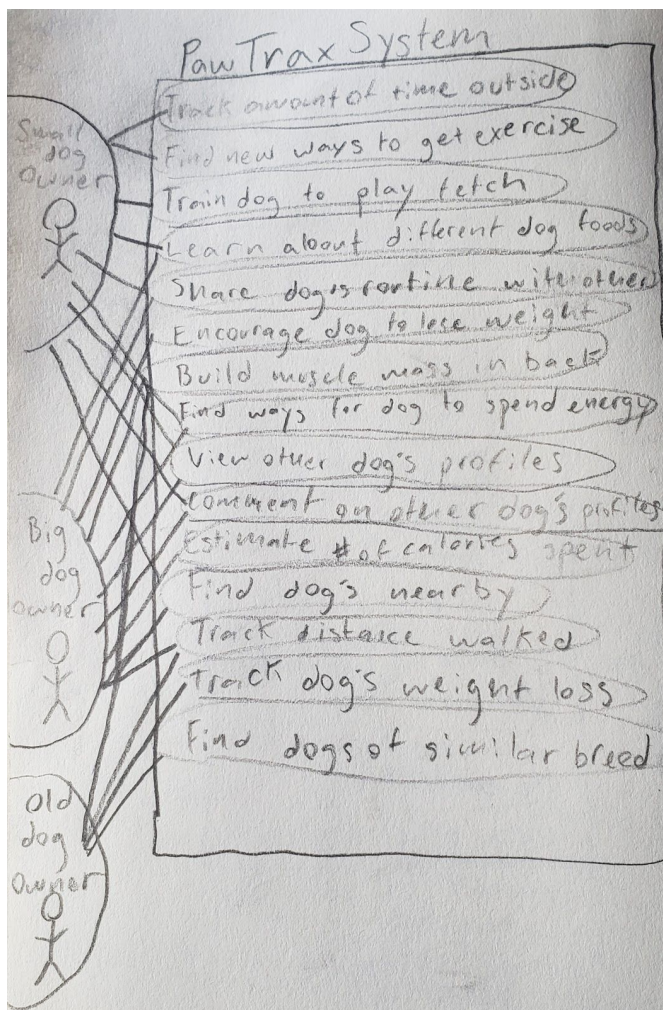https://github.com/CSCI-3308-CU-Boulder/Potato-Chip-Scapegoat

Development Method:
  Our team will be using the iterative(Agile) software development methodology. We will start by planning the general scope of the project, then start the iterative process of planning, launching and monitoring. Customer contribution is important for our project development so we will continuously provide a working program and collect customer feedback to modify our app. We will be using Trello for our project board to keep track of the tasks that need to be completed and list customer feedback on our backlog.

Our project board: https://trello.com/b/qQzWLfwS/paw-trax

Architecture Plan:

We will be using Apache Cordova (hopefully) to build our project as a cross-platform web application. We will make use out of SQL (using PostgreSQL, MariaDB, or MySQL) and the front-end languages (HTML/CSS/JS), as well as C++ initially, as we have the most combined experience with that, but we may end up using other languages like C#, Python, Node.js, or Java depending on our needs and bounds within our app development framework. Our database and SQL code will be responsible for storing and utilizing information from users and their accounts containing information about their dog and their other activities with that dog. The front-end languages will be used to present data to the user and interact with the application through an intuitive UI. The mid-tier languages like C++ and C# will be used to piece together everything, essentially being the branches of communication between the front and back ends. If need be, other tools like Python, Node.js, or even technologies like JSON, jQuery, and Angular will be used in the development of the mechanism to breach the gap between our data and UI.

Use Case Diagram: Tyler

Communication Plan: We plan to communicate information through Slack, a simple messaging app that is coding friendly. Also, Github repository hosting services is a helpful tool for group coding that we will be using. Weekly meetings on Monday from 5-7pm (subject to change) through zoom, where we discuss progress and assignments in more detail.
Workspace Link: potatochipsca-zrr1920.slack.com

Meeting Plan: The team will be meeting through Zoom from 5-7pm on Monday nights, with some adjustments week by week if need be (but hopefully always at 5pm Mondays for some amount of time). Kate will be hosting a Zoom meeting and we'll talk through our decisions and more during that time. Our TA meeting will be at 4:50 on Mondays, just prior to our team meeting. The links for each are here
Group meeting: https://cuboulder.zoom.us/j/96763105591
TA meeting: https://cuboulder.zoom.us/j/94925558934
This week meeting at 5-6pm Monday and between 3:05 and 3:15 for an hour this Thursday

Turning it in: "Create a single PDF for the team. This project milestone 1 submission should be a PDF document named ProjectMilestone1_[TeamNumber] and pushed to the MILESTONES folder in the git repository. Turn in the link to the MILESTONES (GitHub) folder on Canvas."