Team PCS (Potato Chip Scapegoat) Project Design, Architecture and Features List (Team #5)
Team Members: Jackson Trust, Kate Pendavinji, Megan Kang, Ahmed Alali, Tyler Apple
Application Name: Paw Trax

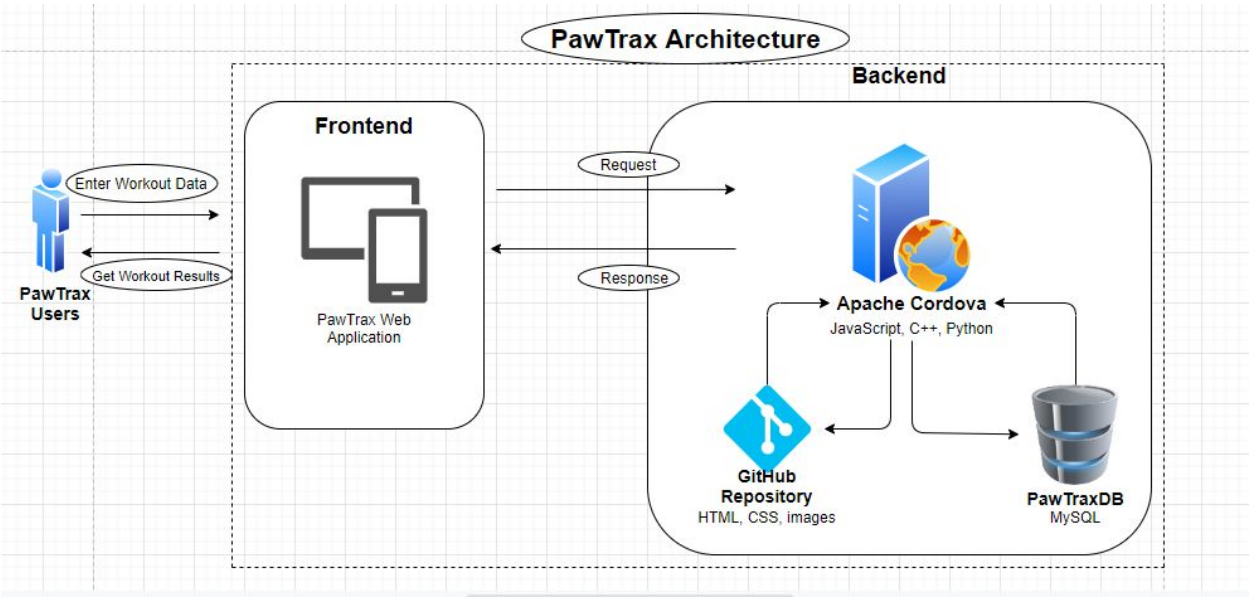
Revised List of Features:

- *Activity:*
  This feature will track the amount of time your dogs spend outside. Similar to other fitness apps, this entails a setting where you can manually enter how long you and your dog are being active for. Also, distance traveled can also be inputted manually, so storage of how far you go will be included within this. Their weekly activity summary can also be found here where we summarize how many hours/miles the person's dog has accomplished for the week.
- *Exercise:*
  Will have three set categories for different types of dogs such as large, medium, and small dogs. These categories will all contain innovative ways to keep your dog healthy. These generally will not be randomized, they will be selected using data gathered.
- *Training:*
  This feature will provide tips and tricks for effectively training your dog. We will provide different methods and explanations on how to implement these methods such as positive reinforcement, relationship-based, clicker, and etc. This feature could also include different categories such as puppy, adult, and mature. A way this could be structured is benefits and downfalls of each training method and incorporating the categories within that.
- *Explore:*
  Incorporates a social aspect into the app to where you can add friends and communicate with them in order for your dogs to have more exposure to other dogs. This feature may include opportunities for users to set up times for their dogs to play, and if they are occupied with work or other things for other users to watch after their dog. Differs from dog walking apps in the sense that the app will mostly have dog owners as users. This feature would also create incentive to use the app more when you compare your dog's progress with another's. Each.
- *Progress:*
  This feature will track the dog's health. Users can input their dogs' age, weight, and breed in order to promote health. This will then be sorted to state the condition of the dogs' health based on collected data. Users can update their information as their dogs' health improves and they can post their progress as well. This information can be prompted by the application monthly. We can also include an N/A option for people who wouldn't want to utilize this feature.

  /* Revisions made: Progress (optional feature), Activity (weekly summaries) */

Architecture Diagram

- This deliverable is a picture or diagram that shows each architectural component of your application.
- The diagram should identify how your application's front-end, integration layer, and backend processes will be hosted.
- This diagram should identify the flow of data from one layer to another.
- This diagram should identify the protocols being used to/from each component layer.
- Any changes to the architecture should be reflected here. Also, mention the reasoning behind the pivot.



Server Side Scripts

The script(s) should include all the endpoints for the routes your user application intends to call.

As listed in the feature list for this application, we will have several endpoints for the routes it intends to call. We included the basic structure of all the endpoints that will be called when the user runs the application inside the server.js file. We are still trying to learn how to use apache cordova so hopefully by the next milestone, we will be able to change our server.js file and transfer the script into the cordova app we are planning to create.

Individual Contributions

- This deliverable includes a couple of lines about each team member's contribution towards the project.
- Include a link to the latest commit made by each team member on the GitHub repository.

- Share a screenshot of the project management board being maintained for this project indicating the status of the tasks at hand.

Jackson: Worked on establishing the cordova and database infrastructure and software installations for the team. Also worked on writing project challenges for the milestone write-up. Commit code here: 7ebb9fab4fe1a320b2e4237ea38ac5c28e0804f3

Tyler: Created the Paw Trax architecture diagram for the website. :7ebb9fab4fe1a320b2e4237ea38ac5c28e0804f3

Ahmed: Contributed with ideas for the team.

Kate: Updated the features list in order to be more easily implemented, discussed some challenges. commit code:7ebb9fab4fe1a320b2e4237ea38ac5c28e0804f3

Megan: Created a server.js file and added get requests to add all endpoints for the routes the application intends to call. It is still a work in progress and will further be edited to implement in apache cordova for the next milestone. Commit code: ce3899defc6398378e3351ac58e3e45bf172bbe2

Challenges

Three challenges that we may face/are facing now include:

- A challenge we faced was trying to figure out exactly where to start and how to split up scripts among ourselves so we were all being productive.
- Another challenge that we've faced so far is the fact that we have somewhat of an idea of how we'll design our application, but there may be some things that we cannot do with the tools that we have and are not entirely sure how to deal with that.
- A challenge that we may face would be troubleshooting the installation and function of our application with the Apache Cordova framework and MySQL workbench and dialect of SQL.
- A possible solution to all of the challenges we are facing and may face would be to do our website in a similar format to how we worked on Lab 4, as the framework and tasks to do were laid out for us and would be easier for the group to manage, unlike what we have sitting in front of us.

Turning it in
This project milestone 4 submission should be a PDF document named ProjectMilestone4_[TeamNumber] and pushed to the MILESTONES folder in the git repository. On Canvas, include a text file with the link to your file on the git repository