Milestone Two
App Deadline: April 26th
Austyn Salazar, Serena Evans-Lutterodt, Yang Li, Brett Papenfuss, and Chris Thompson.

Project Features List

- Matches:
    - Users should be able to match with a dog when both profiles have liked each other.
        - This is our main function.
- Accept/Dismiss:
    - Users should be able to click one side of the screen to dismiss another user that they aren't interested in and the opposite side to accept another use and possibly match.
- Account Setup:
    - Users should be able to set up an account and create a profile with general information as well as answers to questions that will enable easier matching between dogs and people.
- Messaging:
    - Once users match, messaging is added to allow communication between the two users. Messaging on the dog side would be run by the organization or rescue that has the dog so that the users could get more information.
- Maps:
    - This feature would allow (non-dog)users to see the location of the rescue to see if how far it is and whether the distance would be a factor.
- Filters:
    - Users can filter their matches by distance, dog breed, price, etc.
    - Would work in tandem with many of the other features, like maps, matching, and account setup.

Requirements: Functional

- Matching
    - The main concept of this app will be connecting both users to each other through our General Matching feature. This will take the Dog-side's profile and our User-side's profile, scan them to see if they have a 65% or more similarity, and pair them together.
- Account Setup Pages
    - The three main include the Registration, Login, and Profile. The registration page takes in users information; Name, Age (18+), Annual Income, Family Size, Type of Living Arrangement, Yard Size, and Preference of Dog Type. The login page will just require a login and password, which will be stored in a database. The profile page will include most of the information from the registration page, a bio from the account owner, and a profile picture.
- 'Swiping' (Buttons)

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    - To allow the user to choose whether they like or don't like a dog. Can click options at the bottom and then save the users liked dogs to a database. There will be three buttons on the main page; No, Go Back, and Yes.
- Visible Features (Matching Page)
    - On the main page, there will a large photo of a dog, their bio, location, and bottom response buttons. At the top of the page, there will be a corner button to get to your personal pages, and in the other corner, a button to get to the messaging and matches page.
- Maps Functionality (Google Maps API)
    - Still up for discussion, but this will show the location of the dog; either in relation to the user's location or their current home.
- Messaging
    - On the messaging page, there will be two parts: The first part is about the history of the people you have contacted and the second part is the list of people you have paired with in alphabetical order. For the text history, it will be stored in the database of the user's profile or a new database that links to the user's account. There will be a notification for the user when they receive a new message. For user's who are accessing the app through the website, there can be some sort of SMS message sent, to notify them of their app notification.
- Filters
    - The app must be able to show the dogs that match filters the closest first. The filters will be chosen one at a time by a drop-down menu where you choose a filter to sort by.

Requirements: Non-Functional

- Availability
    - Firefox and Chrome but not Internet Explorer
- Accessibility
    - Phone and Computer: compatible for phones and PCs.
- Usability
    - Clearly defined buttons and user interface that can be understood by people who are not computer savvy
- Performance
    - Shouldn't be a huge issue, but make sure web pages load quickly
- Security(Validity of Users' Posts)
    - Check that the information that is posted to our website is legal (not the trade of drugs)
- Aesthetics
    - Non-functioning website design
    - The orders of pages that will show to users

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Project Plan:

Features:

- Matches
- Accept/Dismiss
- Account Setup
- Messaging
- Maps
- Filters

Who's Doing What Per Feature:

- Serena: SuperLike feature, general matching, and front end
- Brett: Databases and filters
- Yang: Messaging and database
- Chris: Login/registration and profile page database and front end
- Austyn: Google Maps, and front end

Feature Completion Timeline:
Start by creating a login page and a database for users. Move on from there to closely linked pages.

FE = front end
BE = back end

FE Login page - finished by end of Friday, March 15th
BE Login page database - finished by end of Friday, March 15th
FE Account setup/profile creation - Sunday, March 17th
BE create a database for profiles - Sunday, March 24th
FE create a main page that supports the matching and accept/dismiss functionality and links to other pages - Sunday March 31st
BE Figure out how to match on the back end - Friday, April 5th
FE create a messaging interface page - Sunday, April 7th
BE messaging network - Friday, April 12th
FE map/location page - Sunday, April 14th

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BE calculate distances between shelters and searchers - Friday,April 19th
FE and BE create filters and sort by filters - Sunday, April 21st
INTEGRATE last week for testing, bug fixes, tying everything together, presentation, and visual improvements - Friday April 26th

Sequence Per Feature:
Login/Registration:

- Design: 1 week
- Coding:
    - 2 days on backend/database
    - 2 days on front end
    - Last 2 days linking front and backend
- Tested: last day
- Integrated: last 2 days

Messaging:

- Design: 1 week
- Coding:
    - 2 days on backend/database
    - 2 days on front end
    - Last 2 days linking front and backend
- Tested: last day
- Integrated: last 2 days

Profile Page:

- Design: 1 week
- Coding:
    - 2 days on backend/database
    - 2 days on front end
    - Last 2 days linking front and backend
- Tested: last day
- Integrated: last 2 days

Matching:

- Design: 1 week
- Coding:
    - 1-2 days on backend/database
    - 1 days on front end
    - 3 days creating functionality (swipe left/right)

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- Tested: 1 day
- Integrated: 1 day

Map Page:

- Design: 1 week
- Coding:
    - 1 day on backend/database
    - 1 day on front end
    - 4 days creating functionality (swipe left/right)
- Tested: 1 day
- Integrated: 1 day

Filters:

- Design: 1 week
- Coding:
    - 1 day on backend/database
    - 1 day on front end
    - 4 days creating functionality (swipe left/right)
- Tested: 1 day
- Integrated: 1 day

Security:

- Design: 4 days
- Coding:
    - 1 day on backend/database
    - 1 day on front end
- Tested: 1 day
- Integrated: 1 day

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Tasks

Name	Begin date	End date
Login/Registration	3/11/19	3/13/19
Login Database	3/14/19	3/16/19
Login Testing/Linking	3/17/19	3/19/19
Profile Page	3/11/19	3/12/19
Profile Database	3/13/19	3/22/19
Accept/Dismiss Functionality	3/23/19	3/31/19
Match BE & FE	3/30/19	4/5/19
Messaging Interface	4/5/19	4/7/19
Messaging Network	4/8/19	4/12/19
Messaging Testing/Linking	4/13/19	4/15/19
Map FE	4/8/19	4/8/19
Map BE	4/9/19	4/9/19
Map/Location	4/10/19	4/14/19
FE & BE Filters	4/14/19	4/21/19
Integration & Testing	4/21/19	4/26/19
Project Finalization	4/26/19	4/26/19

Gantt Chart