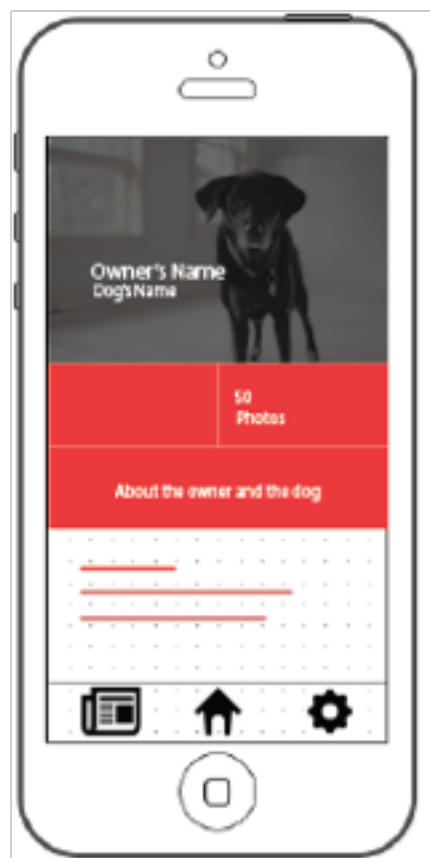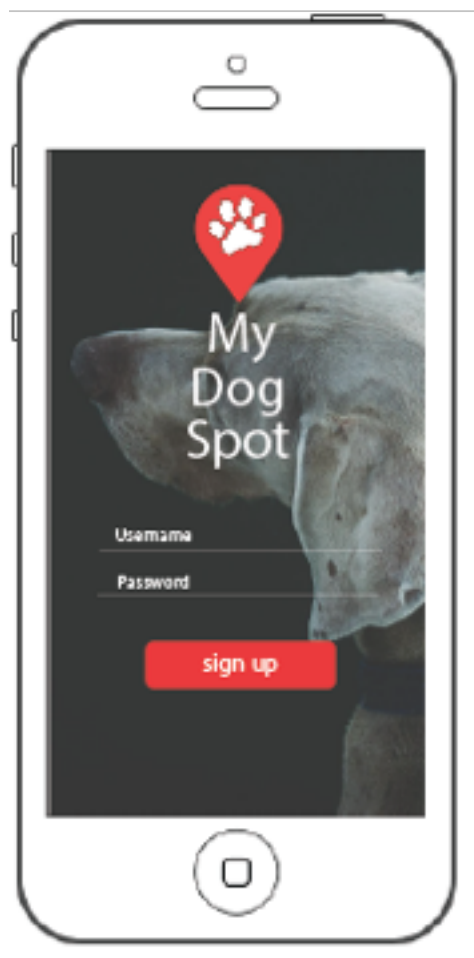Erika Wilcox
CS 485
Design Document

Description

The app I am creating is a social networking app for dog's. It will be a place where dog owner's can go and connect with other dog owner's near them. It will be all things dogs. The app will allow users to create a profile for themselves and their canine friends. The profile page will include the an about section and a photos section.

When the app is initially open it will prompt the user to login or create an account. Everything on the backend will use Firebase. Once the user has logged in they will be taken to a 'feed' view, where they will be able to scroll through posts by others. I would like to add a feed that let's you view posts from the user's friends, but the concept of friends will be added if time permits. At the bottom will be a navigation to take the user to their profile and settings. The user can submit a post on this page if they wish.

From the homepage the user can navigate to their profile. As mentioned above the profile will contain an about section and a photos section. The endorse section will be a feature that will be added on later or if time allows. At it's base the profile will have display the Owner's name, their dog's name, an about section for them and their dog, and photos. If time permits, the ability to make friends will added to the user profile. The ability for friends to endorse you dog, will also be added if time permits. The endorsement of the dog feature will allow the user to post skills or behaviors their dog has. For example an owner might add that their dog 'plays well with other dogs' or that their dog is 'house trained.' If that user's friend knows the dog and agrees that the dog is friendly and does play well with other dogs, then he/she can endorse the dog for that skill/ behavior. This feature will work similar to the endorse section on LinkedIn.

My
Dog
Spot

Username

Password

sign up

50
Photos

Owner's Name
Dog's Name

About the owner and the dog

UI Design

The login View will be made from UIViews. All the text on this page will be Labels. We will add an image view for the background image. The login/sign up will be a button. Where the user enters his/her username and password will both be text fields. The button will have to be customized. The post page or feed with be a UITableView. The profile page will have a button to go to photos. The names will be UILabels. The about/description will be a UITextView. The profile picture will be a UIImage. The navigation at the bottom will stay for both the feed view and the profile view.

Algorithm Design

I plan on using firebase to store all my users data. Everything will be stored remotely on firebase nothing will be stored locally. Firebase will power my backend. I will use it to store data and for user authentication. The data is stored as JSON, synced to all users in realtime. The firebase authentication will allow me to authenticate users with email and password. If time allows, I will be able to authenticate users with Facebook. Firebase is good for this app because it automatically scales with my app as I gain more users.

Schedule

March 7 - 12 : Start on designing the app with prototypes

March 13 - 19: Work on a database schema, and start firebase backend work

March 20 - 26: Begin coding the app and start on login page

March 27 - April 2: Have all three screens (login, feed, profile) ready for mid-project review

April 3 - 9: Implement user authentication and create users in firebase

April 10 - 16: Implement parsing data

April 17 - 23: Implement displaying data

April 24 - 30: Testing and last design changes

May 1 - 7: Fully-functional app will be ready.