

# Pet Clump Proposal

## Extended Abstract<sup>†</sup>

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## ABSTRACT

This app is a platform for people to make connection and friends based on their pets; the pet-related quizzes in the app will help the users find out their relations and common interests with other users.

## KEYWORDS

Date, pets, quiz.

## 1 INTRODUCTION (Objective)

Pet Clump is a social mobile application centered around pets. Nowadays, pets are more and more common in human society, and many people treat them as their family members, unlike in the past, where dogs are trained for purposes of door keeping, cats are trained to kill rats, etc. Thus, we sense a rising demand in the pet owners' community in terms of connecting with each other, and Pet Clump will be a perfect platform just for that.

Currently, most of the dating app in the market focus on the deliverance and advertisement of the user's self-image instead of the things around them, and most of the app does not do a good job in taking care of users' privacy data and maintaining security. Pet Clump breaks through those commonalities.

Pet Clump will be an app that focuses more on pets instead of human beings, so that when users use the app to find their matches, the app only shows the profile of the pets instead of the actual person. They will only be able to see the actual person's photo after they successfully match and become friends. We will also build a trustworthy social network by verifying new user's identity to make sure the user is not a robot or some kind of scam.

Our goal is to extend people's social circle further by exploring common interests shared between them, essentially pets, and match them accordingly.

There will be a detailed description about Pet Clump's planned functionalities in the following section.

## 2 Analysis of Existing Systems (Background)

Currently, most of the social applications are based on only the user's self, and the connections among people pertain to their personal interests, appearance, etc. Moreover, these apps usually collect user's data and use them to make profits, sometimes even selling them to advertising company.

What we want to do is to make an app that satisfies the needs of modern people, since more and more

people have pets, treat them as families, and their decision of making connections with others are now not only based on themselves, but also their affection for pets.

### 3 Who Are Your Target Users?

Our target user is anyone who has pets, any pets. However, our primary focus will be on pets that are sociable, i.e. pets that you can bring out to see other people.

### 4 General Timeline of Specific Components of Our App

The followings are the proposed functions we plan to implement. We use story point system to measure the effect a story may take in the development phase. Each week, we target to finish 30 story points (60 points per sprint).

Sprint 1, by Apr 23 2018

- 14pts - As a user, I want to have an easy and secure login system.
- 7pts - As a user, I want to sign-up without using a social media.
- 8pts - As a user, I don't want to reenter my information to re-login
- 9pts - As a user, I want to enter basic information about myself when signing up and be able to update it anytime I want.
- 8pts - As a user, I want to use the app that supports my language preference.
- Total: 46 story points

Sprint 2, by May 7 2018

- 9pts - As a user, I want to enter my weekly free time to schedule meetup time with others more conveniently.
- 10pts - As a user, if I have more than one pet, I would like to be able to create individual profiles for each pet under the same account, so each account could have multiple profiles for different pets. (Matching will only be between individual pets, not individual account)
- 13pts - As a user, I want to answer a list of quiz questions regarding my pets, such as the pets' habits, sizes, personality, favorite food, usual walking time, and so on, then to match with other people based on these information.

- 22pts - As a user, I want to see the user profiles that match with me based on my quiz answers and location. (Ranking optional)
- Total: 54 story points

Sprint 3, by May 21

- 12pts - As a user, I want to add friends and have a friend list where I can see friend requests and the last two lines in chat history for each friend.
- 24pts - As a user, I want to chat with my friend one on one.
- 11pts - As a user, I want to be able to report scam profiles when matching. And the content manager can ban user.
- Total: 47 story points

Sprint 4, by Jun 4

- 20pts - As a user, I want to have an interface that is visually-appealing, creative, and extremely feasible.
- 16pts - As a user, I want the app to recommend me a location of where to meet after I get the matches. (We are planning to choose a park that located in the middle of the two-people's address as their meeting location).
- Total: 36 story points

## 5. Technology

The main technology besides Java for our Android version development will be Google Firebase. We will use Firebase for user authentication and modify cloud messaging system to provide secure end-to-end encryption. We choose to use Google Firebase to eliminate the cost of server host and maintenance.

## 6. System overview

Figure 1 shows the system overview. There are two entry points: login and sign-up. For the sign-up, we will use Google Firebase to process authentication. If possible, we will extract user's basic information from the provided account and provide a better user experience.

Our sign-up page is our setting page, user can enter their information, weekly schedule and profile picture. Under the owner's profile, an owner can create up to 6 pet profiles.

When creating the pet profile, there are 3 sections. The photo of pets only. The photo of owner and pet, and pet's information. The photo of owner and pet

will be hidden from public. At the pet's information, owner can answer some quiz problems about them and their pets for matching purpose.

In the main page, owner can choose which pet he or she wants to view match and friend list. The system will download other profiles from the same or adjacent areas and calculates the match percentage on the client's devices.

When viewing profiles, there will be an "Add Friend" button. User can view their friends and requests at the "Friend" tab in the matching view. Clicking any friend will open the chatting system, where messages are encrypted and delivered by Google Firebase. At this point, they can view that pet's owner's photo.

Finally we will look into Yelp's API to recommend a location, such as a park, for the owners to meet up.

## REFERENCES

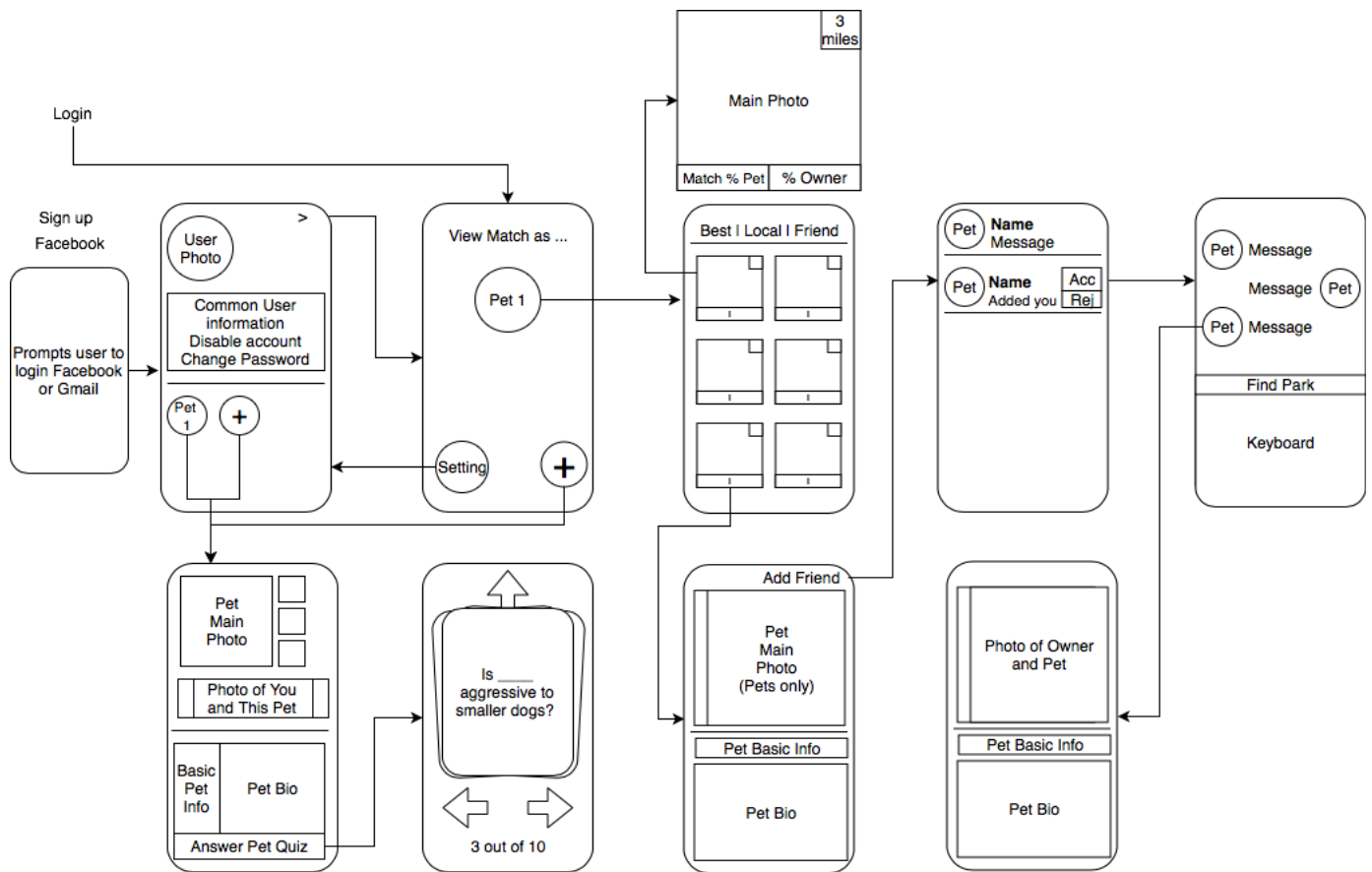


Figure 1. System Overview