Team Working Agreement document

1. Logistics

Product name:Pet Clump
Team name: Clumpers
Meeting Time: Every Monday Wednesday Friday at 2:30PM.
Meeting Place: BE 209 / BE 314a (Varies)
Project Repository: https://github.com/zero41120/Pet-Clump

2. Development Environment

Platform:

       IOS: MacOs and IOS 11+ Devices
       Android: Windows/Mac/Android phone support minimum 16.
       Database:
            Google Firebase for both.
IDEs/ Text Editor:
       IOS: Xcode and Swift
       Android: Android Studio and Java

3. Coding Styles

1) Filenames

- underscore_lowercase.extension   (view_page_signup.xml)
- type_subtype_description   (model_profile_user.xml)
- Java class should follow java convention   (MyClass.java)

2) Code

- Constant name is UPPCASE_UNDERSCORE
- Variable name is camelCase
- Class name is CapitalCamelCase
- Listlike name is plural, and element name is single
    - objects = [obj, obj, obj]
    - for obj in objects{ // code }
- Don't use ++ or --, use += 1 and -= 1
- Don't write long functions (more than 50 lines)
- Don't use single letter variable outside a for-loop
- Don't omit {} in control statement.
- Don't write 3 layers of nested if
- Don't use global variables, use singleton objects
- Use Android Studio IDE default tab indentation
- Recommended: Assignment is left to right, and comparison is right to left
    - is_cat_lover = true

- - if (3 == number_of_cats){ // code }
  - Lines should not be longer than 80 character.
  - Anything in a {} must be indented accordingly
  - Open bracket { is at end of a statement, that is
    - if(is_cat_lover){
    - }
  - If a if statement can be a single line, make it so
  - Align = with tab. That is:
    - variable   = value
    - longVariable   = value2
    - sVar   = value3
  - All public data member must be private with its own getter and setter to avoid unsafe modification(Encapsulation)

3) Git commit messages
  - Verb by description
    - Adds frame to profile photo and modifies profile photo size
  - Bug fix format: Patches a bug that _____ when _____, ___ fixed it
    - Patches a bug that crush the profile layout when user click invite button, limiting the button size fixed it.

4) Documentation
  - Format:

```
/**
 * This function takes ___ and does ____, then returns ____.
 *       argument1: description for why this functions needs it
 *       argument2: description for why this functions needs it
 * Return
 *       data: description of expected return
 * Throws
 *       ___exception: description of throwable
 */
return_tyep functio_nanme(argument){
        // Code
}
```

  - Example

```
/**
 * This function takes 2 doubles and divides the first by the second,
 * then returns the Quotient.
 *       argument1: dividend
 *       argument2: divisor
 * Return
 *       data: quotient
 * Throws
```

```
    *       IllegalArgumentException: when divisor is zero
    */
    double my_divide(double dividend, double divisor){
            if(0 == divisor){
                    throw new IllegalArgumentException("'divisor' is 0");
            }
            return dividend / divisor;
    }
```

4. **Definition of Done**

Unit/Integration tested

Ready for acceptance test
Acceptance tested
Run the unit/UI test for each component of the app
Have all the members in the team to evaluate the code after each sprint
No increased technical debt
Releasable
Have other people to tested the app
Complete all the user stories that are planned for the app

5. **Area of Responsibility:PO, Scrum Masters for each Sprint**

Product owner: Tz-shiuan Lin

Scrum Master for each Sprint
Sprint1: Tz-shiuan
Sprint2: Tamir
Sprint3: Jerod
Sprint4: Galen

Responsibilities of each member on each sprint:

Sprint1:
Tz-Shiuan Lin User story re login and firebase login authentication
Jerod Zheng   User story language support and user information
Galen Robbins   User story language support and user information
Tamir Vardi   User story User interface

Sprint2:
Tz-Shiuan Lin Frontend matching, Pet Information
Jerod Zheng   Backend matching, Time Tracking, Pet Information

Galen Robbins   Backend matching, Quiz System
Tamir Vardi   Frontend matching, Quiz System

Sprint3:
Tz-Shiuan Lin one-to-one message
Jerod Zheng   Friend List User Interface/chat view User Interface
Galen Robbins   one-to-one message
Tamir Vardi   Delete/block the scam profiles from database

Sprint4:
Tz-Shiuan Lin backend, location
Jerod Zheng   frontend, user Interface
Galen Robbins   backend, Diffie Hellman Encryption and and frontend
Tamir Vardi   Visual effects, animation, sound effect, icon.