



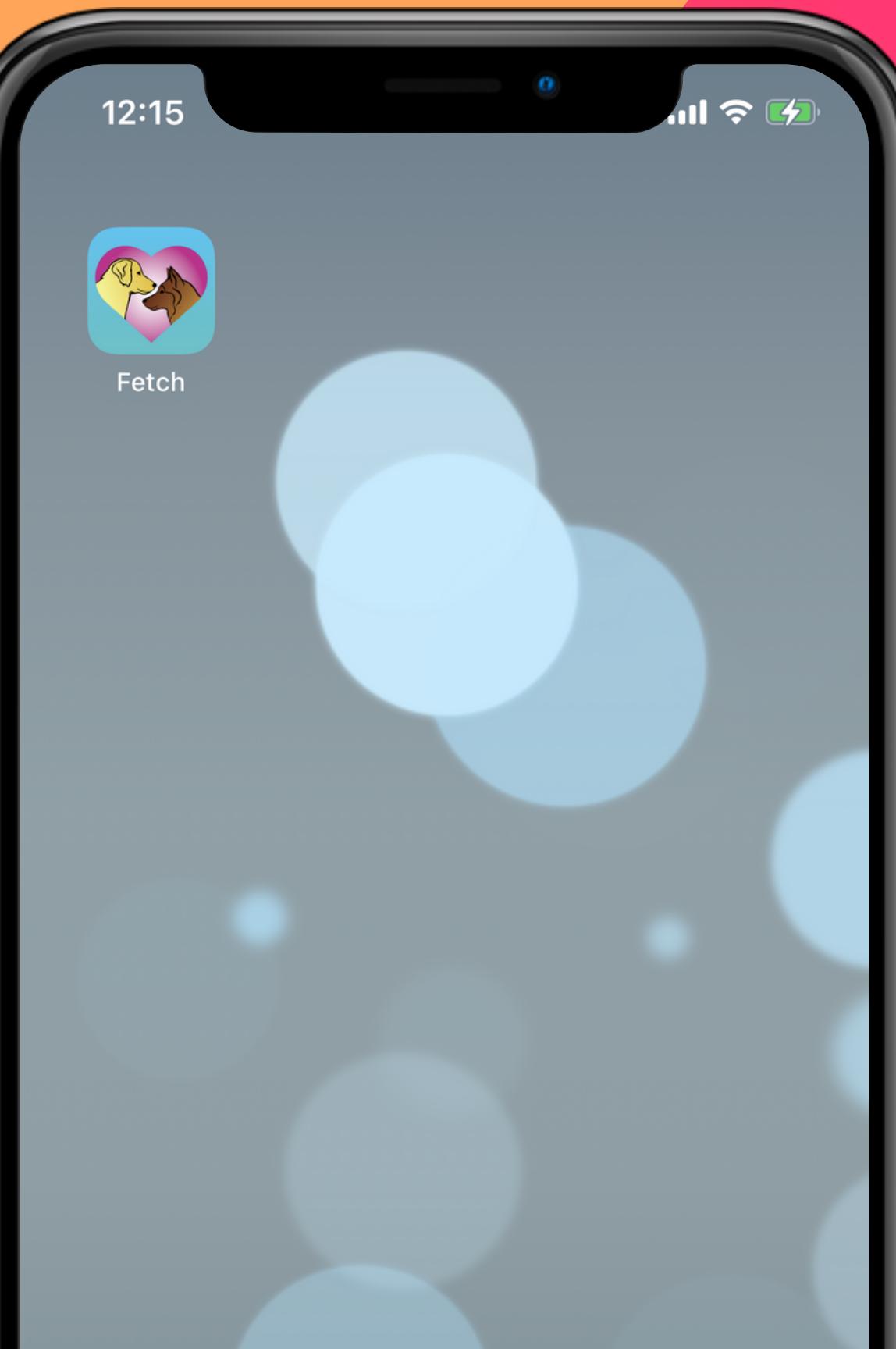
Fetch

The Tinder for
Doggy Playdates





PROBLEM STATEMENT



Problems:

- Dog parks:
 - Inconsistent visitors
 - Covid -> shut down many
- Limited sources to support new dog owners and dog owners in general

Meet **Fetch**, the Tinder for Doggy Playdates

- Similar platforms are for dating
- No existing well-known, easy to use application of this kind



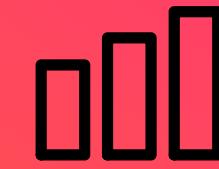


THE APP

App Overview



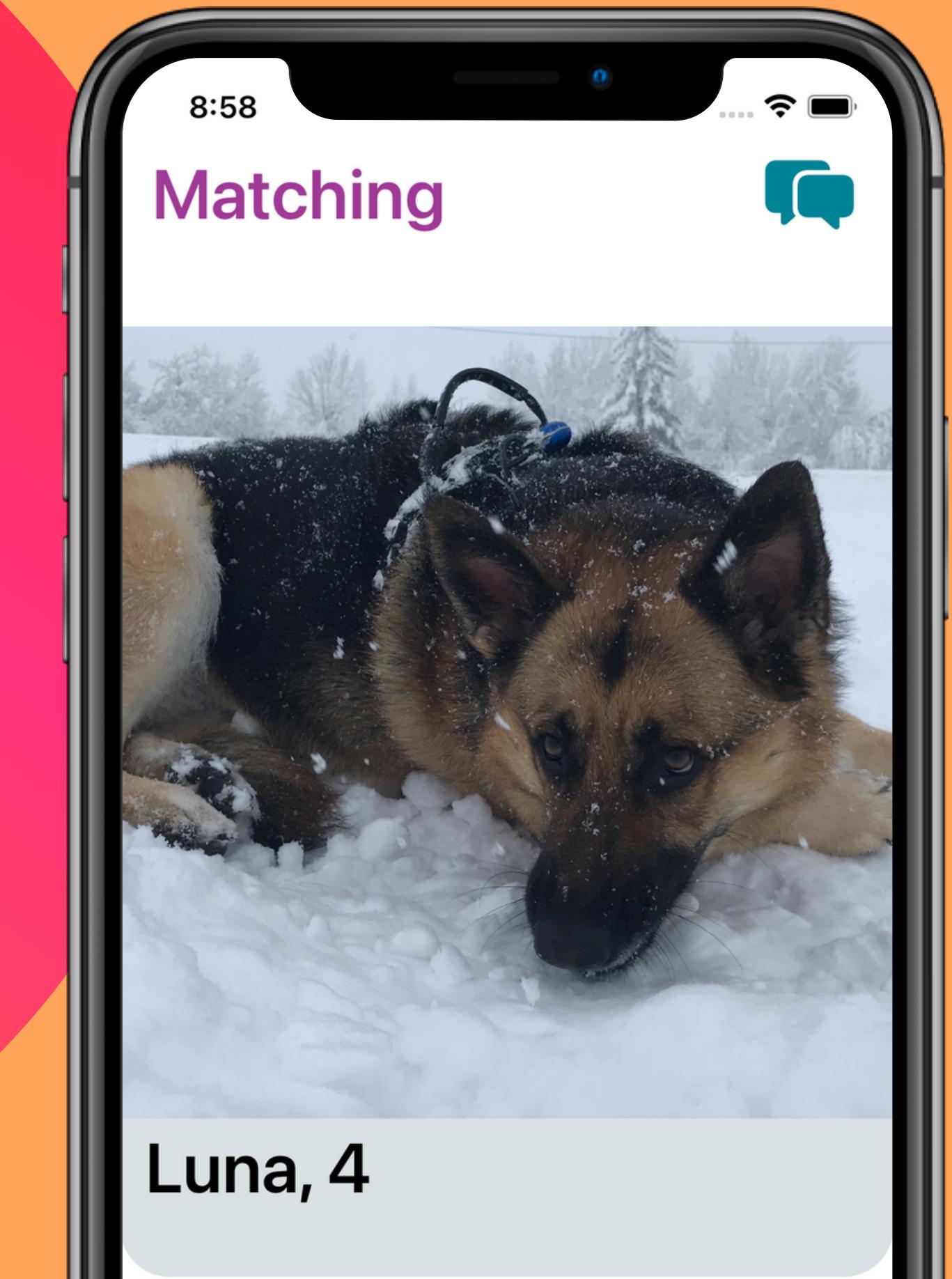
Find dogs



Based on your
dog's personality

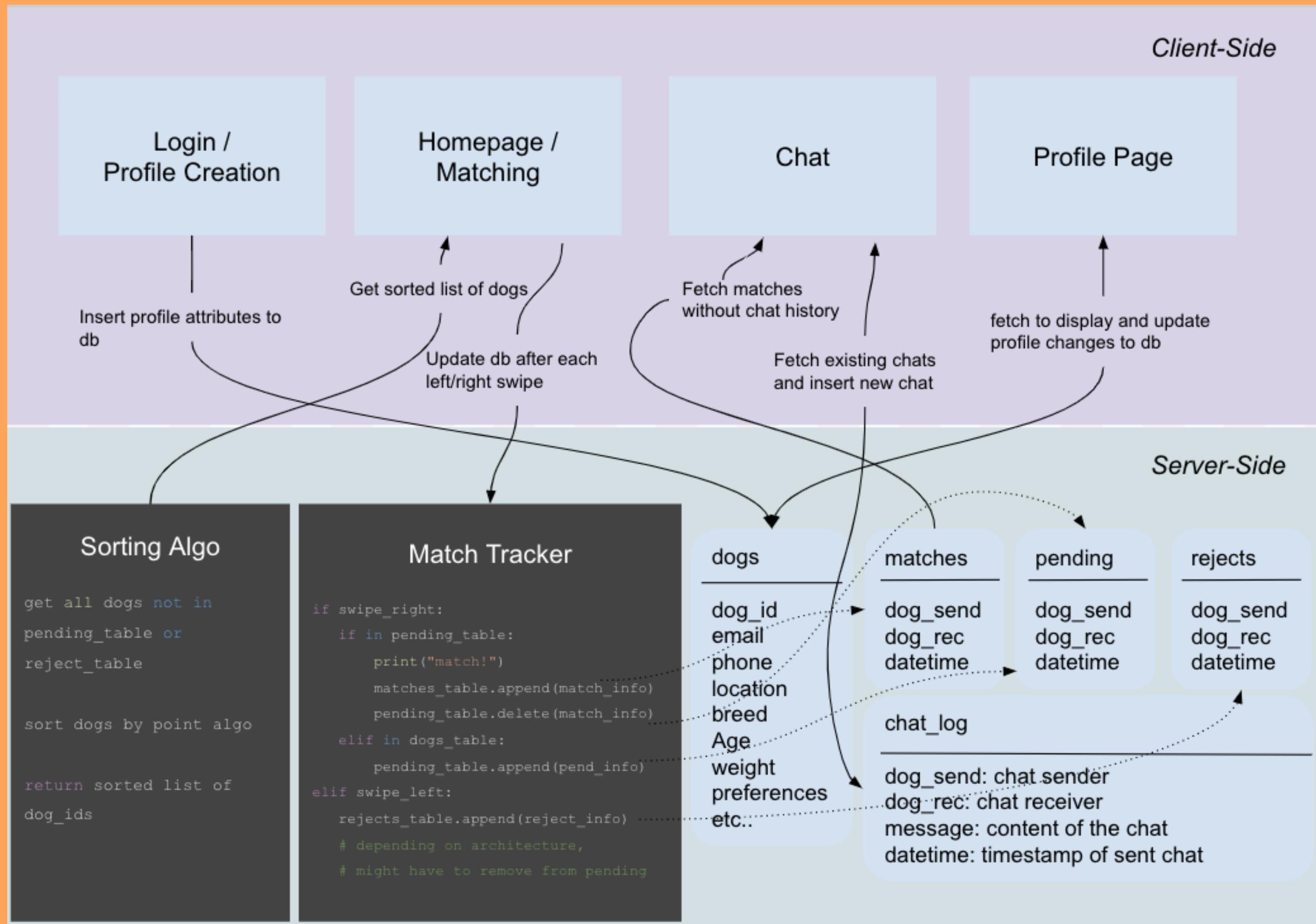


Connect with
your matches





ARCHITECTURE + DYNAMIC DIAGRAM





TECHNOLOGIES



Technologies Used



Swift and
SwiftUI



XCode



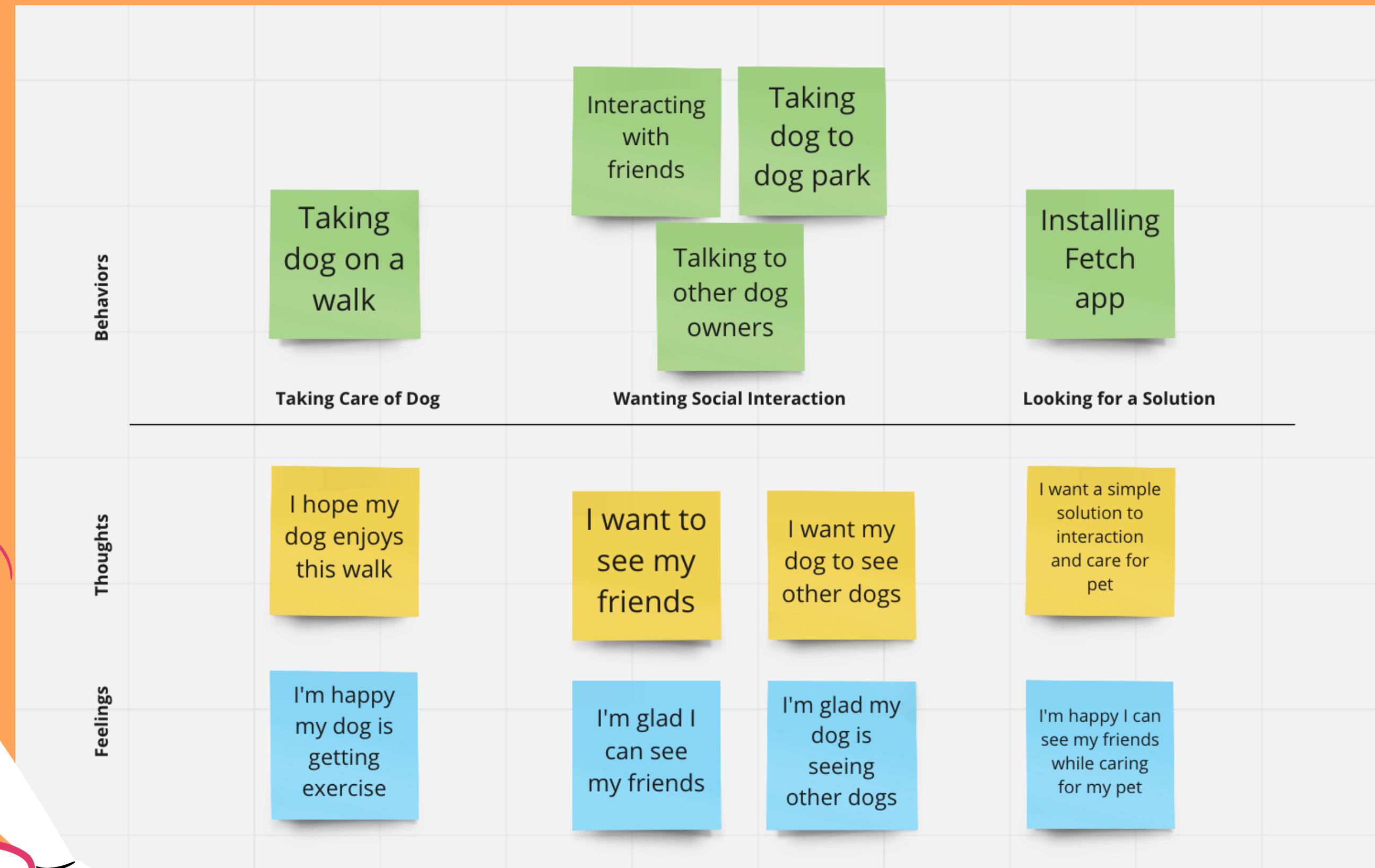
Firebase



THE USER



Mental Model of User

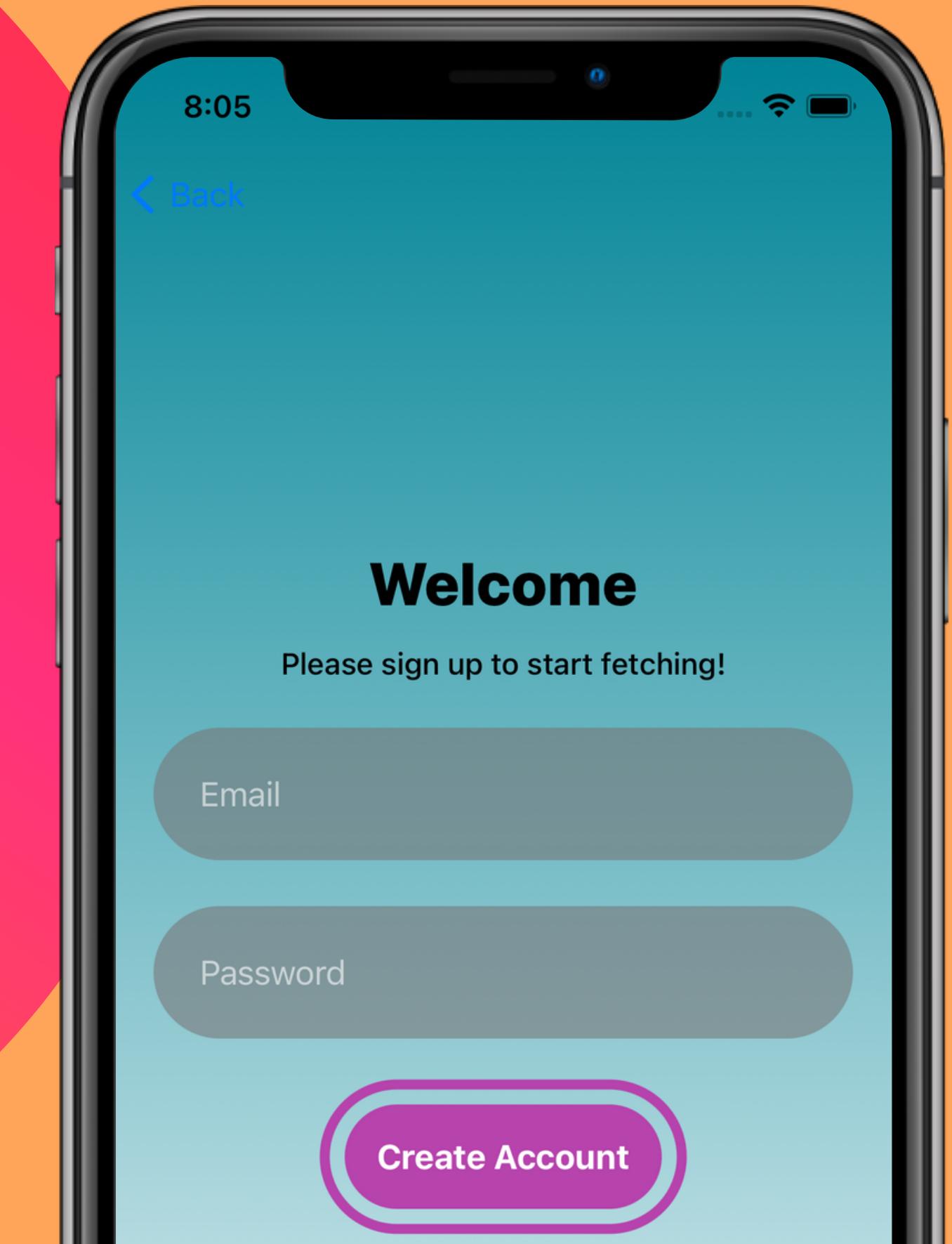




THE USER

Sign-up

- New users will arrive here
- Supply valid email along with password
- User info stored in FBDB

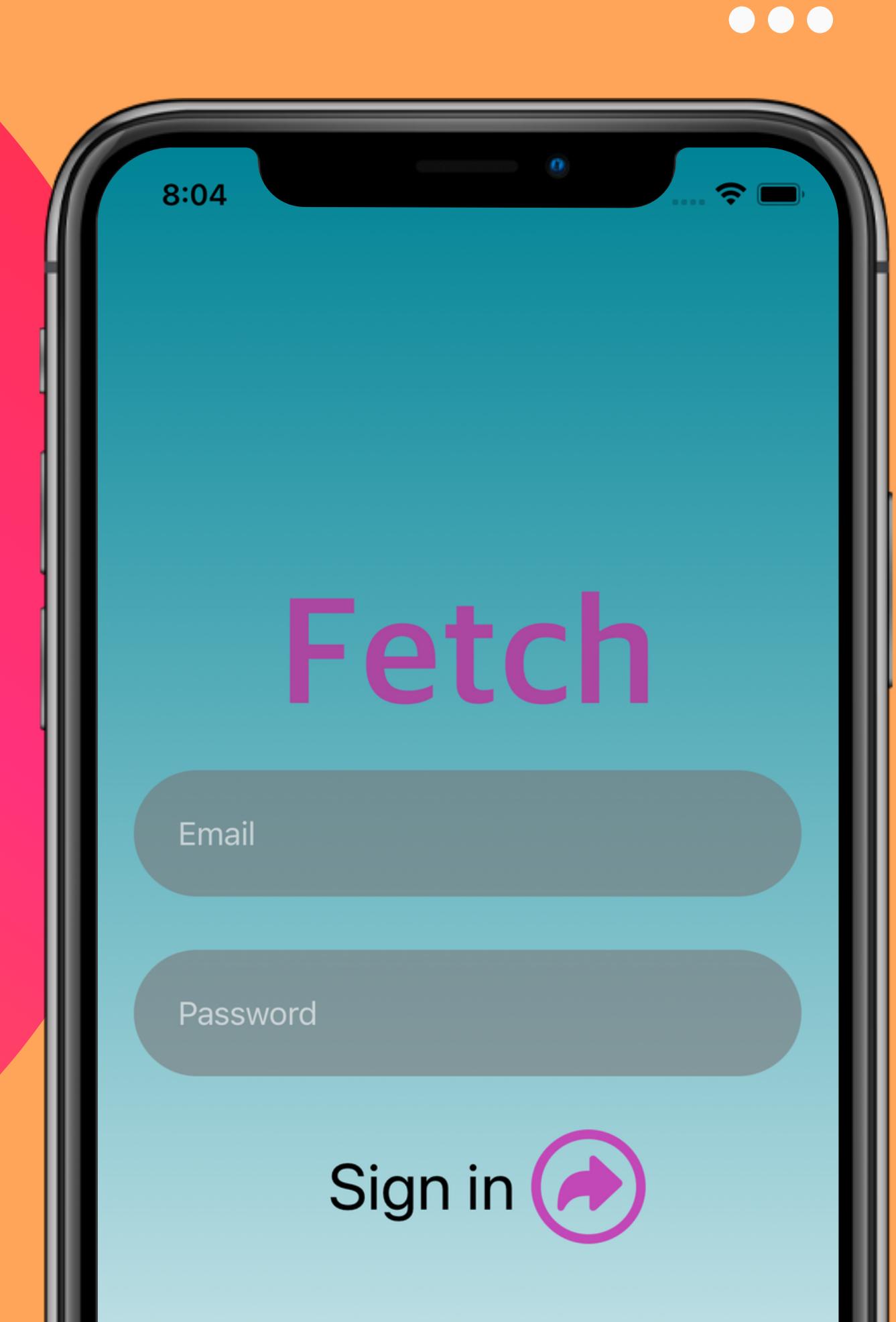




THE USER

Login

- Existing users will supply credentials to log in

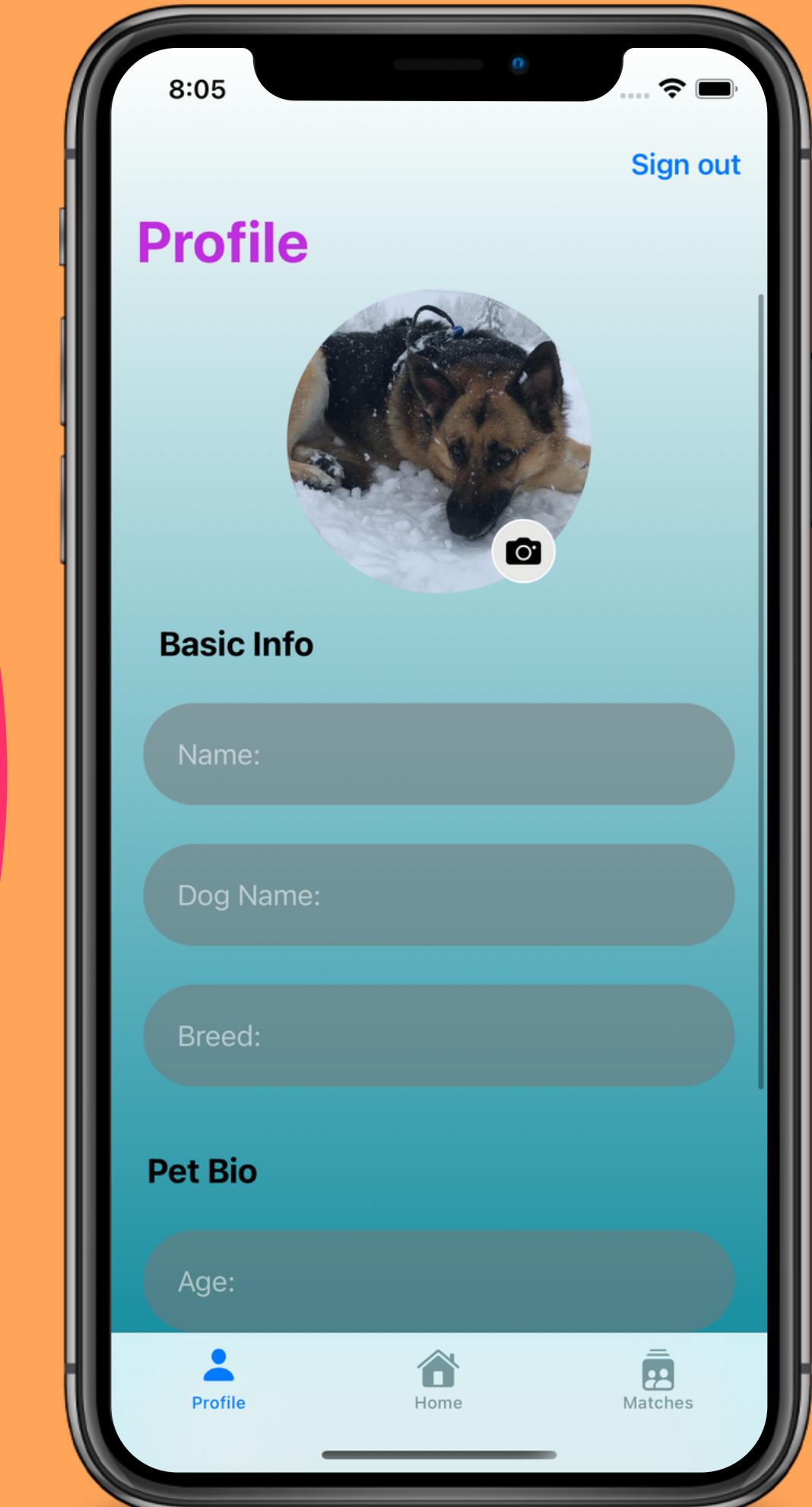




THE USER

Profile

- Owners can list their name, and their dog's name, breed, and age
- Camera functionality so owner can upload live or past photo of dog

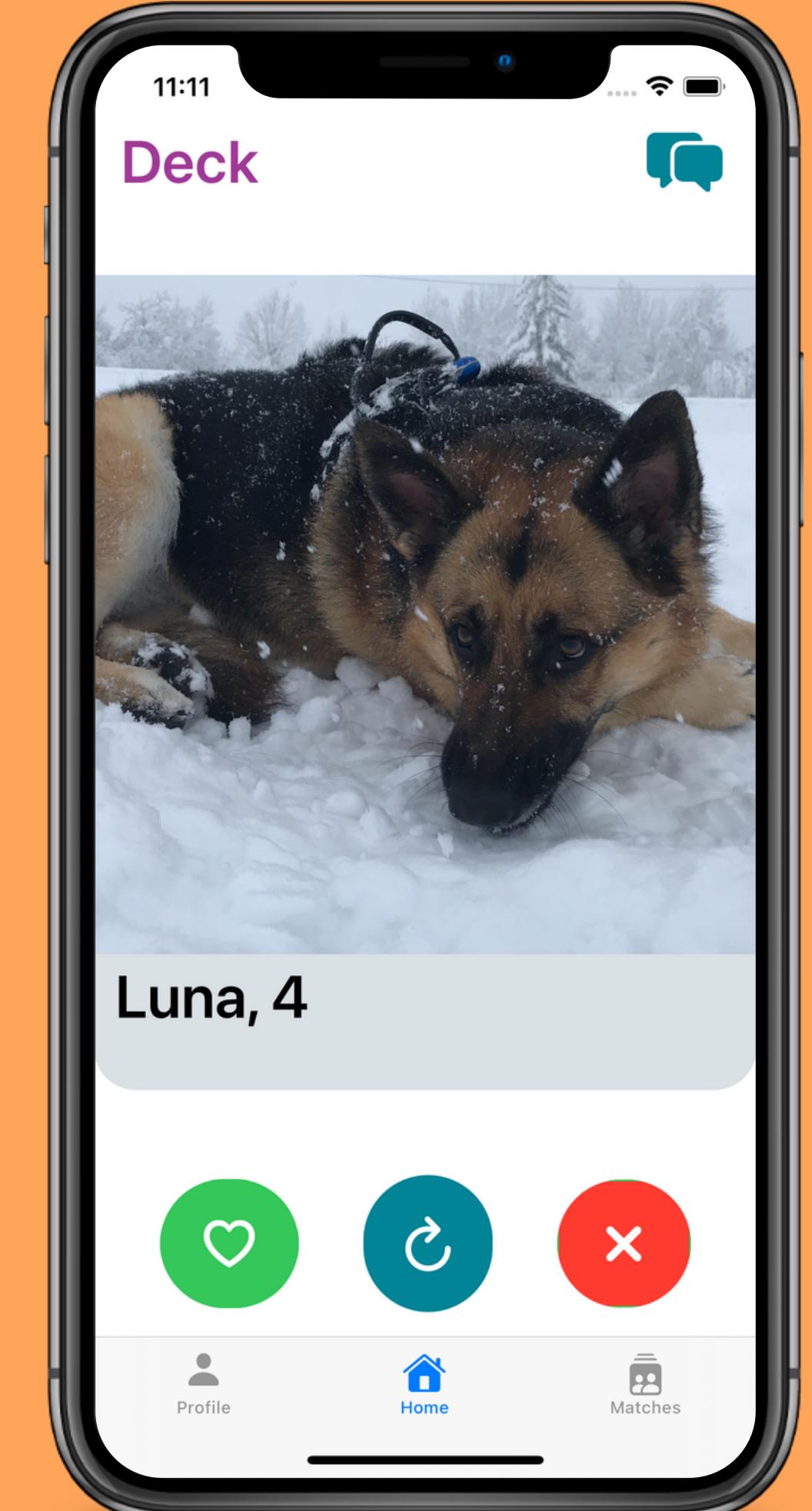




THE USER

The Deck

- Home page of Fetch
- Given a "deck" of users to navigate through (Match/Decline)
- Stores data from FireBase in arrays to display the deck
- Current User does not appear in the deck

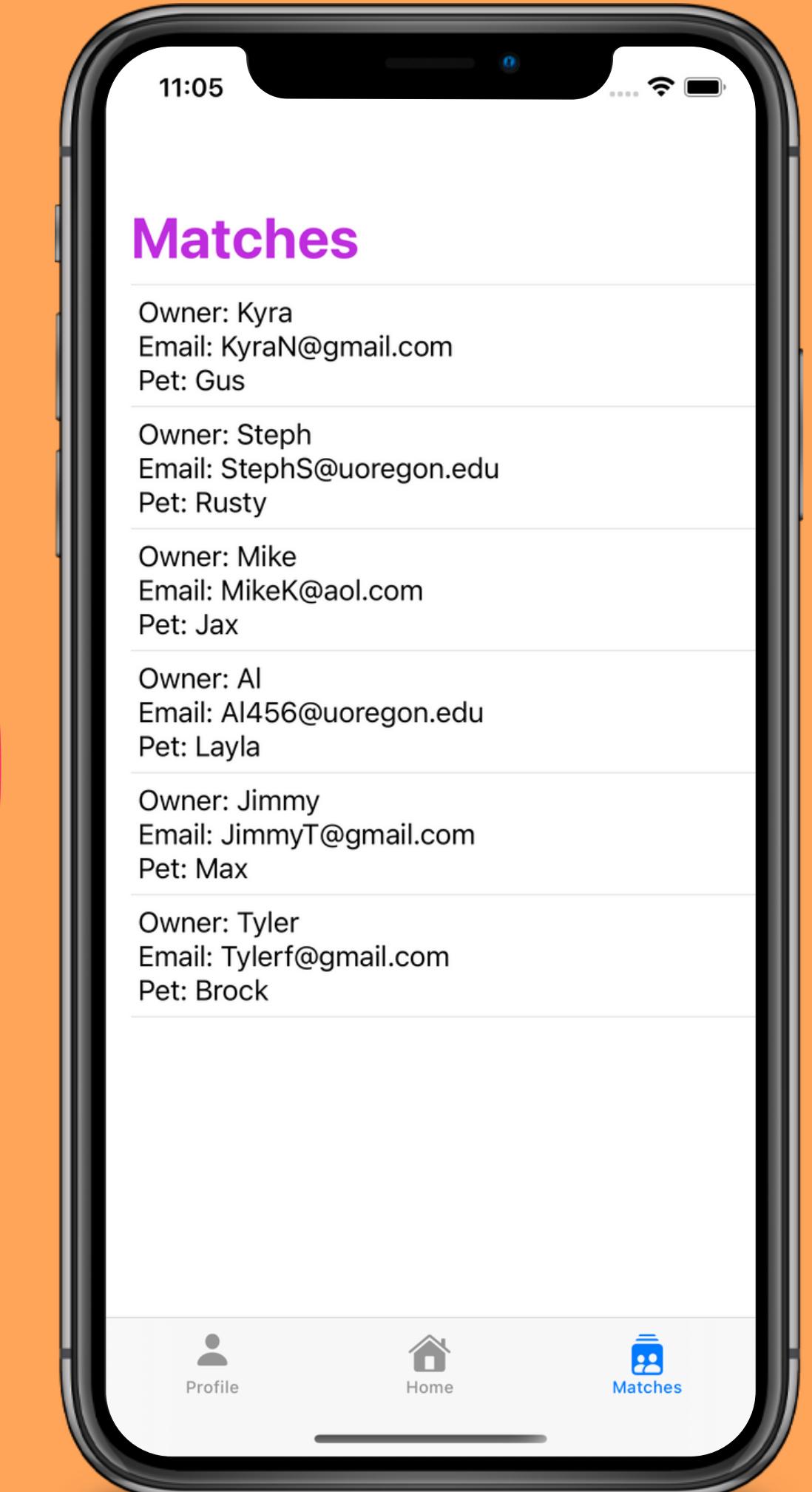




THE USER

Matching

- Users are given the option to match or decline with a user
- When matched, users will be given a way to contact one another to plan a playdate
- Match tab
- Matched and declined entities are stored in FireBase
- Communicating with other users will take place outside of the app





Firebase

Firebase

```
fetch-app-b86d8-default-rtbd
  ↳ Declines
  ↳ Matches
  ↳ Users
    ↳ 0k07ujsKpfQseHmwZHLB4YmcLW23
      ↳ Breed: "Shepard"
      ↳ Dogname: "Gus"
      ↳ Owner: "Tatum"
      ↳ UID: "0k07ujsKpfQseHmwZHLB4YmcLW23"
    ↳ BnRdz10GcyRulFJXjjJHzdlKwf83
    ↳ G0PW9v9A6deFPsgZUPausJDONpg2
    ↳ ZEJYwvEE8YPODpal0u72DxkE9HR2
    ↳ fwIxtEZCKURI3rHvb80ysuUpFMM2
    ↳ gp6pejWtASXH8i1DxCEHzrJEQmq2
    ↳ m6LOAa1712V0IMiEPo6Olv-1U7mc1

  "Declines" : {
    "BnRdz10GcyRulFJXjjJHzdlKwf83" : [ null, "", "Schmidey", "Frank", "", "", "Schmidey", "Tina", "Frank", "Nala", "", "Schmidey", "Frank", "Gus", "", "Tina" ],
    "G0PW9v9A6deFPsgZUPausJDONpg2" : [ null, "Buddy", "Tina", "Nala", "Buddy", "Tina", "Nala", null, "Buddy", null, "Tina", null, "Nala", null, "Buddy" ],
    "HLU1rfLHjZ69GYMHTv8QwCcne3" : [ null, null, "Buddy", "Luna" ],
    "gp6pejWtASXH8i1DxCEHzrJEQmq2" : [ null, "Ollie", "", "", "Frank" ]
  },
  "Matches" : {
    "BnRdz10GcyRulFJXjjJHzdlKwf83" : [ null, "Gus", "", "Tina", "Nala", "Gus", "Gus", "", "Tina", "Nala", "", "Schmidey" ],
    "G0PW9v9A6deFPsgZUPausJDONpg2" : [ null, "Gus", "Schmidey", "Frank", "Gus", "Schmidey", "Frank", "Gus", null, "Schmidey", null, "Frank", null, "Gus" ],
    "gp6pejWtASXH8i1DxCEHzrJEQmq2" : [ null, "Gus", "Schmidey", "Nala" ]
  },
  "Users" : {
    "0k07ujsKpfQseHmwZHLB4YmcLW23" : {
      "Breed" : "Shepard",
      "Dogname" : "Gus",
      "Owner" : "Tatum",
      "UID" : "0k07ujsKpfQseHmwZHLB4YmcLW23"
    },
    "BnRdz10GcyRulFJXjjJHzdlKwf83" : {
      "Age" : 4,
      "Breed" : "Poodle",
      "Dogname" : "Ollie",
      "Owner" : "Jenny",
      "Personality" : "Outgoing",
      "UID" : "BnRdz10GcyRulFJXjjJHzdlKwf83",
      "Weight" : 15
    },
    "G0PW9v9A6deFPsgZUPausJDONpg2" : {
      "Breed" : "",
      "Dogname" : "",
      "Owner" : "",
      "UID" : "G0PW9v9A6deFPsgZUPausJDONpg2"
    }
  }
```

- Supports user authentication for email accounts and passwords
- Provides a public database structure with cloud functionality
- Stores
 - User information
 - Matches
 - Declines
- Can view Realtime Database within Firebase website
- Database operates like a JSON object



FUTURE WORK



Future Work



android

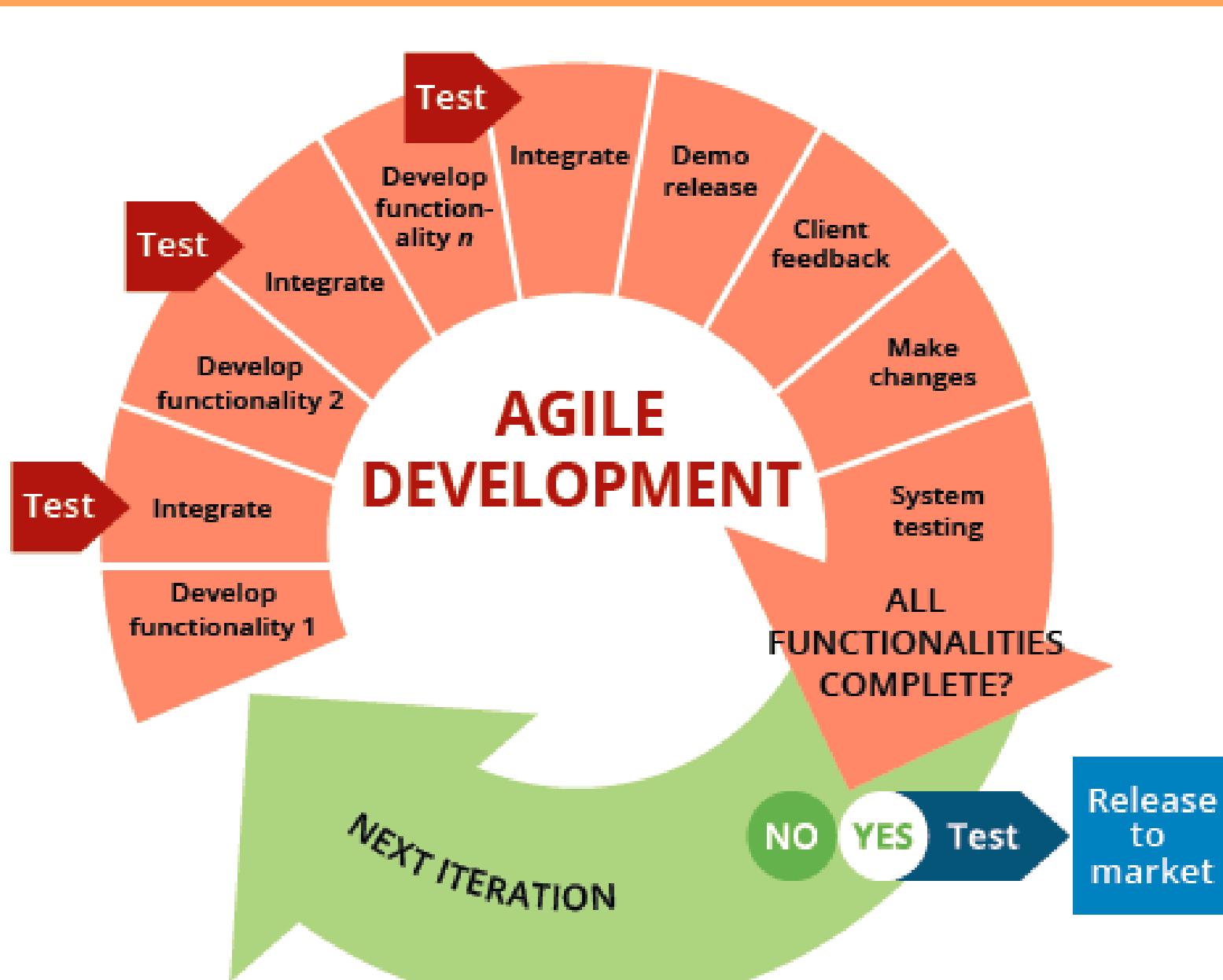


App Store

- Chat feature within Fetch
- Double pending match functionality
- Expanding each individual module
 - Profile
 - Deck View
- Get ready for deployment to app store
- Supporting multiple platforms
 - Android
 - Web
 - Smart watches



PROJECT STRUCTURE



Team Organization

- Agile development team organization structure
- Best fit for learning new languages, technologies, and understanding app development process



THE USER

Project Timeline



CIS 422 Project Two: Fetch

Ronny Fuentes, Kyra Novitzky, Jack Sanders, Stephanie Schofield, Callista West
Fetch Team Project Start: Mon, 2/15



THE USER



Demo