**Title:** Furever Friends

**Team Name:** Team FF (Group 5)

**Project Advisor:** Dr. Blum

**Project Github:** <https://github.com/SarahKettell/FureverFriends>

**Team Members and planned features:**

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| --- | --- | --- |
| **Name** | **Contact Information** | **Role Description** |
| Disha Patel | [dvp5392@psu.edu](mailto:dvp5392@psu.edu) | Camera access so users can take photos of their pets and apply filters to make pets look attractive for adoption, along with fun camera modes such as “selfie photo booth”. Camera can also be used for reviews on “Safe Spawts”.  Pet care documentation and lost and found functionality, which allows users to share information about found or lost pets and coordinate with GPS locations for last spotted places.  User authentication and account management. |
| Jean Pierre Astudillo Guerra | [jpa5180@psu.edu](mailto:jpa5180@psu.edu) | Get connection to PetFinder’s API to get listings for rescue pets. These listings will be combined with listings created on our app and all listings will have the same matching capabilities, even though information provided on pets may vary.  Handle document scanning and input related to pet forms/physical paperwork. Text will be abstracted from the documents to fill in required fields in the database.  Database management and access. |
| Sarah Kettell | [sxk1552@psu.edu](mailto:sxk1552@psu.edu) | Main Node.js and Docker setup.  Quiz functionality and decision tree/optimization algorithms for matching users to appropriate pets. This will analyze a significant amount of pet features pulled from user written descriptions and photos. |
| Surabhi Sahay | [sms7631@psu.edu](mailto:sms7631@psu.edu) [surabhi.sahay24@gmail.com](mailto:surabhi.sahay24@gmail.com) | In charge of creating GUI prototype in Adobe XD and translating it to working pages (Front end development).  Google Map and GPS connection find local pets to adopt and “Safe Spawts” to meet new Furever Friends. The map will display photos taken at that location from previous pet meetings, and can show travel progress from users who enable that feature. Users can also leave reviews or “likes” on the Safe Spawts. |

**Description:**

Furever Friends is a web (or mobile) application built to help match people with their perfect pets. Browse local listings for the pets that are available, list pets that need to find their furever friends, and take the personality quiz to find the pets that best match your personality and lifestyle.

It uses GPS location data and Google maps to help find pets that are near you and suggest safe meeting places with adopters to meet and take your new furever friend home. In-app messaging provides secure communication channels between adopters and adoptees, and notification features let you know as soon as you get a message or a new furever match is found. Document scanning allows for a quick and easy adoption process to match any needs.

Furever Friends doesn’t stop when you’ve found your new friend, either! Browse our advice on pet care and help reunite furever friends when they become lost in our “Lost and Found” section.

Looking to find a new friend for an animal? Set up a customized pet profile for them and show off their most adorable features with our pet photo booth and cuteness enhancing filters.

**Summary of Features:**

* Allow individuals and shelters to create accounts to list pets up for adoption or share details about lost/found pets.
* Allow individuals to create accounts and take personality quizzes to suggest pets that would most match them and their lifestyle (similar to dating apps).
* Send notifications when a new match is found.
* Combine listings published on the app with pet listings on PetFinder.com via their API.
* Use GPS and Google Maps API to find local pets and suggest safe pet swap locations for individuals to meet between their homes. Maps will show pet photos taken at locations and allow for users to “rate” a Safe Spawt.
* Provide a messaging or chat option for users to contact each other securely to discuss pets.
* Use user tracking data to improve match results, such as if a user commonly ignores black cats, stop showing them black cats.
* Include a chat bot for questions from users.
* Connect to a user’s camera to take photos of the animals using different modes and filters to enhance cuteness. Videos may also be included if space allows.
* Additional use of the camera could be for adoption document scanning, potentially reading in details from the document and translating it to text.

**Tentative Languages and Frameworks:**

* HTML
* CSS
* JavaScript
* Node.js
* React.js or React Native
  + Both options are cross-platform, and work in browsers and both Apple and Android devices. Native allows for installation from App stores, as well.
* Firebase
* Docker containers for system setup and shared development environment

**Initial Designs:** <https://xd.adobe.com/view/13c89e9e-75ab-4d7a-b121-b58e2c299ebc-469b/>