



**PAWDOPT**

## SRS Documentation

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# Introduction

- PaWdopt is a Tinder like application to connect potential people to dogs that need to be adopted. Users will swipe on pictures of dogs with information about them such as age, size and ability and Adoption agencies or companies will swipe on people with information about them such as location, other pets and yard size.
- This process will funnel appropriate potential users into a pool to select the best dog for them to adopt. The agency will have the final decision at the end of the day.
- The vision for this project is to create a seamless process whereby all interactions between person and agency can happen over the app. Some objectives include creating a seamless interactive and somewhat fun process for users to find dogs to adopt.
- Another objective includes building an ML model to gather information about a dog based strictly off of a picture, and display the information about this dog.

## User Characteristics

The different users and their respective characteristics are as follows:

### **Adopter**

- These groups of users will be able to login/register as an Adopter (a user that will be able to like and dislike dogs from a particular shelter).
- They will be able to perform this function at the home swiping page where they will be presented with dogs in their area and their respective shelters.
- After swiping, the dogs will appear in a liked dogs page where they can review the dogs they have liked.
- This type of user will also need to upload documentation that is required for the shelters to approve the adoption progress.

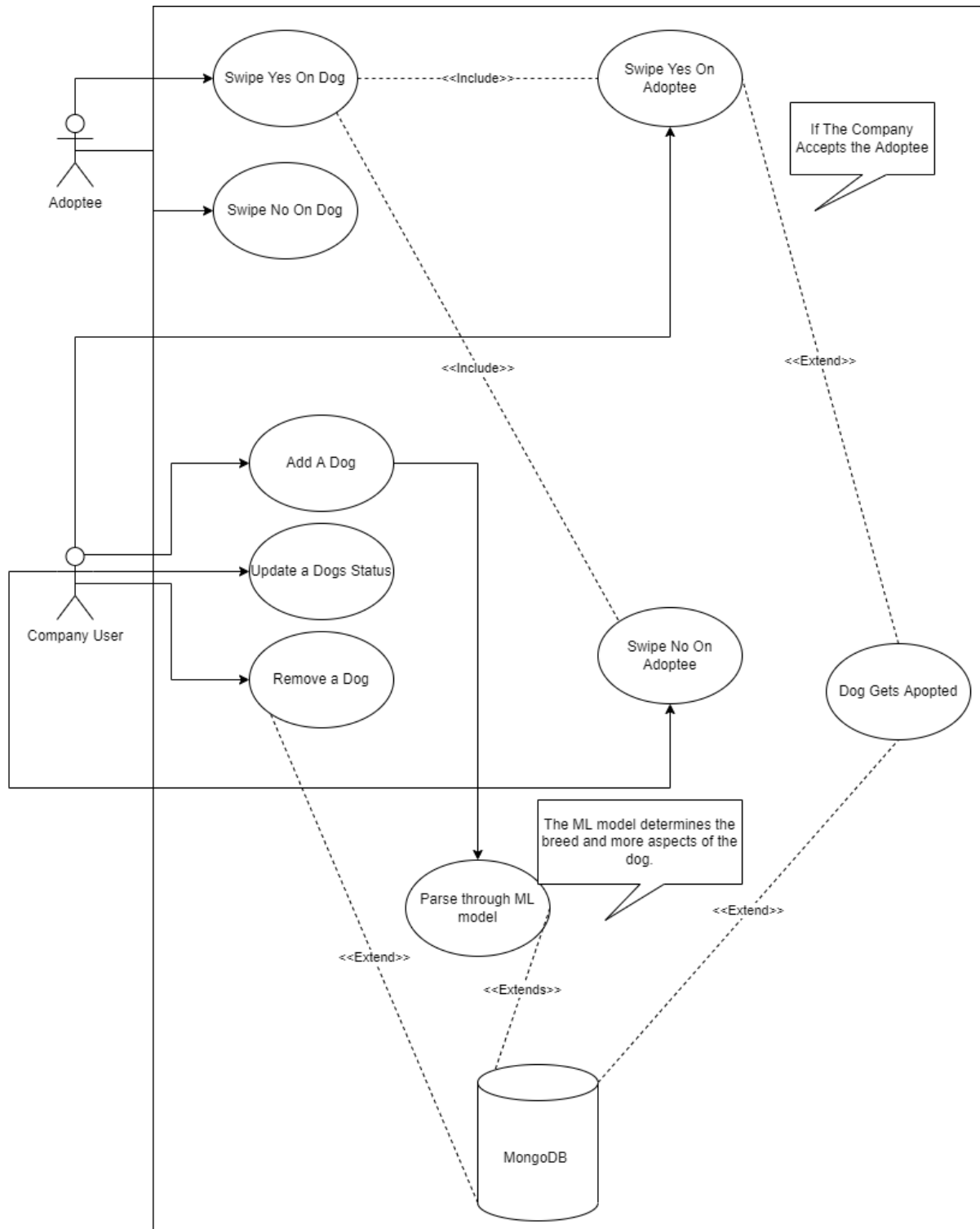
### **Organisation member**

- These groups of users will be able to login/register as an Organisation member (a user that will be able to add dogs for their respective shelter and access an owned dog's page to view all dogs associated with their shelter).
- This type of user can add, change, and update all the dog's information and view all users that liked a particular dog within a dashboard.
- They can then view an individual and their documentation to approve or decline their offer.
- The user can then also use the chat functionality to communicate with the individuals.

# User Stories

#	As a <type of user>	I want/need to <perform a task>	so that I can <achieve some goal>	Acceptance Criteria
1	As a new PaWdopt app user,	I need to create an account by providing all the necessary information including username, password, date of birth and email address.	So that I can use the functionality of the PaWdopt app such as viewing and liking the dogs that wish to be adopted.	Ensure the user can: <ul style="list-style-type: none"> <li>• Enter their details and all information is valid.</li> <li>• Access the main swiping functionality once signed up.</li> <li>• View liked dogs, settings, and a profile page once signed up.</li> <li>• The user can then also use the chat functionality to communicate with shelters.</li> </ul>
2	As a regular PaWdopt app user,	I want to login on the PaWdopt app by entering the details that I filled in on the signup page. This can also be done by using Google login or Apple login.	So that I can use the functionality of the PaWdopt app such as but not limited to viewing and liking the dogs that wish to be adopted.	Ensure the user can: <ul style="list-style-type: none"> <li>• Access the main swiping functionality once logged in and authenticated.</li> <li>• View liked dogs, settings, and a profile page once signed up.</li> <li>• The user can then also use the chat functionality to communicate with shelters.</li> </ul>
3	As an organisation PaWdopt app user,	I want to be able also login, but I need to add dogs for the respective shelter and access an owned dog's page to view all dogs within the shelter.	So that I can add, change, and update all the dog's information and view all users that liked a particular dog.	Ensure the user can: <ul style="list-style-type: none"> <li>• Access the organization owned dogs page functionality once logged in and view a specific dog likes through a dashboard.</li> <li>• View individuals that liked dogs and accept/decline their offer.</li> <li>• The user can then also use the chat functionality to communicate with the individuals.</li> </ul>

# Functional Requirements



## FR1:

- Users must be able to Create an account, log in and be directed to the home page based on the type of user they are.

- 1.1 Users information must be validated and secured and a POPIA disclosure should be noted as the information is shared with organisations and agencies on their approval.

## FR2:

- Users must be able to swipe left or right on dogs based on their personal preference.
  - 2.1 If a user swipes right on a dog their information along with the dogs information is sent to the company the dog belongs to, in order for the user to be accepted or not.
  - 2.2 If a user swipes left on the dog then a new dog should appear for the user to swipe on.

## FR3:

- Users should be able to browse the dogs they have liked and see more information about those dogs

## FR4:

- Organisations should be able to upload a picture of a dog, parse it through the ML model and then have the predictions about the dog displayed to them.

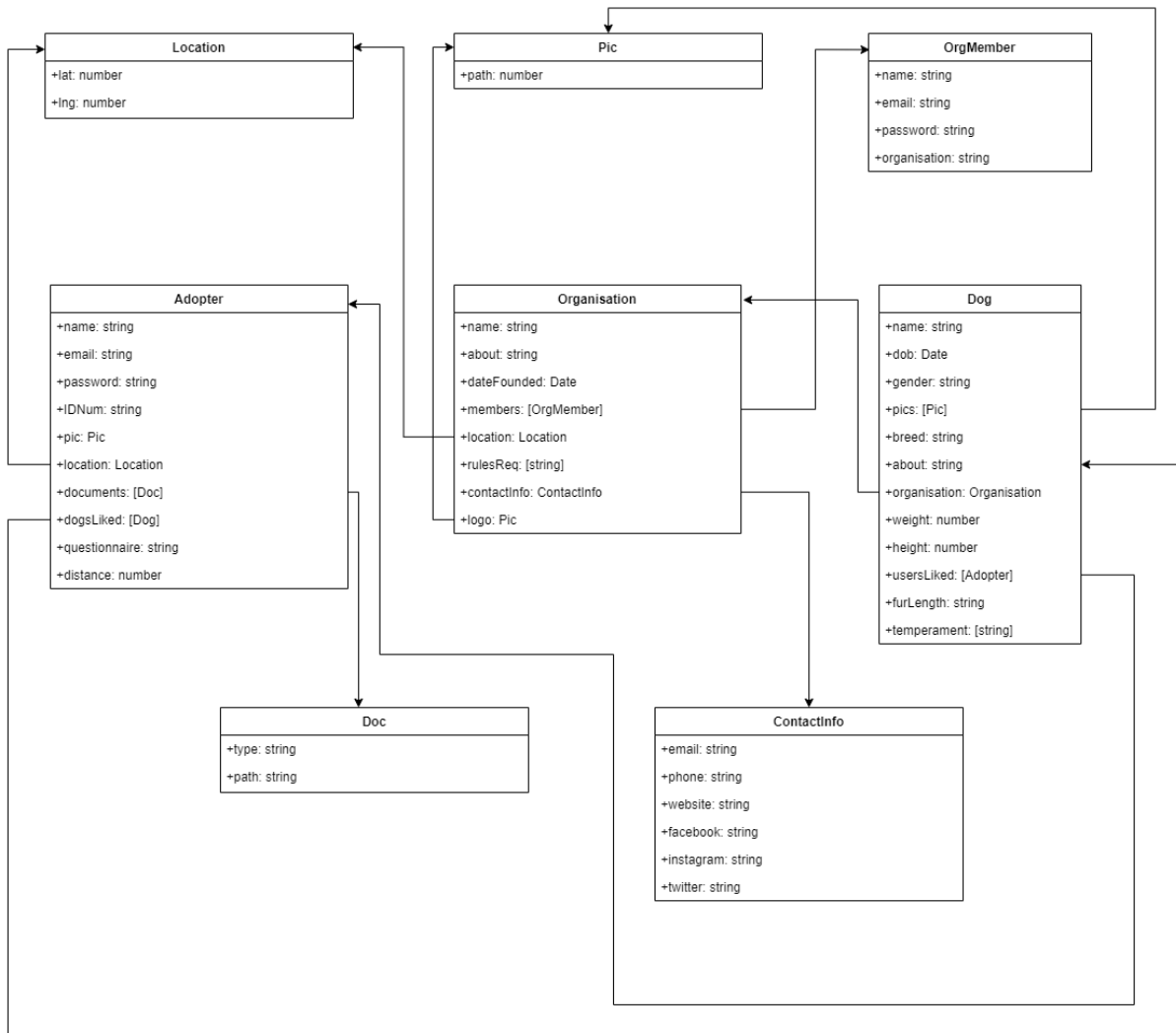
## FR5:

- Organisations should be able to swipe accept or decline on users that have swiped right on the dogs that belong to that company.
  - 5.1 Organisations should be able to see all the information about that specific user.

# Trace-Ability Matrix

Requirement	Description	Acceptance Criteria
Log In	Users Log into the app with a username and password	Information should get validated by the <u>db</u> as well as security checks should be done for <u>sql</u> Injections and such, and then be directed to their home page.
Sign up	New Users can add all their information and create an account with the app	<u>Users</u> information should get added to the DB and then they should get directed to their newly created home page.
Add Organisation	Organisations can add their information and create an organisation account	Organisations information should be added to the DB and they should be directed to their dashboard.
Add dog	Organisations can add dogs to the system for users to swipe on	<u>Dogs</u> information should be added to the DB and the ML model should go over the image of the dog and display all necessary information about the dog in the DB. The dog should then be added to the Cards for users to swipe on
Organisation Dashboard	Organisations should have a page that allows for them to add, <u>update</u> or delete dogs, as well as filter through users to allow users to adopt dogs.	Organisation should be able to be directed to the add dog page, update a dog page and the delete a dog page.
User Swiping	Users should be able to swipe on dogs and either accept them or dislike them.	Users should be able to swipe right on a dog and that gets added to the DB <u>and also</u> swipe left to a dog and then that gets added to the DB

# Class Diagram





# Architectural structure

