Adoptr

1. Introduction

1.1 Purpose

The purpose of this document is to thoroughly present a detailed description of the mobile application, Adoptr. The use of this application is for people that would like to adopt an animal from an animal shelter to be able to do so from the comfort of their phone. The goal of this application is to have a stress-free and enjoyable adoption process in the modern age where everything is easily viewable from a cellular device. This application will also deal as a medium of communication between adoption shelters and users that would like to inquire about available pets at said adoption shelters.

1.2 Scope

The project is aimed for following the guidelines of COVID 19 as we have to keep distance to not further spread of the virus. This mobile application is a medium for users to be able to view potential pets from a safe distance. This also creates more traffic for adaptation centers giving more awareness to pets to have a chance while also being informative to any new or vertrean pet owner. Users will be able to create an account to then be in contact with adoption centers and adoption centers can also create an account through the mobile application to put up potential adoptee pets, put their business information, and also be in contact with adopters.

1.3 Definitions

User -- Person that can view Adoption Shelter's listings and contact Shelter's based on their listings
Adoption Shelter -- An organization that has the ability to create listings based on animals they currently have available
Admin -- Person who has the ability to moderate listings and messages by removing listings and users through bans.
Ticket Support System -- A system that allows users to submit forms which contain information about the type, purpose, or scope of an issue/bug that occurred within the application.

1.4 Overview

This wiki will encompass a detailed description of every component and functionality required of the Adoptr Mobile Application. This wiki will also explain the Mobile Application's needs of the users, assumptions for the application's functionality, and needed dependencies needed for each requirement.

2. Description

2.1 Product Perspective

This product will be centered on an android based application. The app will allow users to view adoption listings created by animal shelters. These listings will be stored in the database and will be sent to the user when requested. The route of communication for this interaction will be through the internet.

2.2 Functionality

The user will be able to view listings created by animal shelters through the application. Users will be able to access these listings to view a more detailed version and save them for later. The listings will also be able to be filtered by the user by categories offered. The user will also be able to report an issue with either the application, the shelters or from other users through a ticket support system. This ticket support system will give weights to these tickets based on the options selected by the user when creating the ticket.

2.3 Needs

2.3.1 User Needs

Users can view animals available on the mobile application
Users can filter animals based on available category of pets
Users can click on an Adoption Shelter's listing
Users can message an Adoption Shelter based on their listing
Users can go to their profile page and edit their profile
Users can view an Adoption Shelter's contact information
Users can add a listing to their likes

2.3.2 Adoption Shelter Needs

Adoption Shelters can create a listing based on an animal available at their shelter
Adoption Shelters can message Users
Adoption Shelters can go to their profile page and edit their profile
Adoption Shelters can report Users

2.3.3 Admin Needs

Admins can view and delete Adoption Shelter listings
Admins can view and manage Users
Admins can view and verify Adoption Shelters

2.4 Assumptions and Dependencies

The mobile application, Adoptr, assumes the following:
- A user's device has internet access capabilities
- A user has access to a device capable of running the Android operating system to access the application
- A user has their selected phone carrier to call to adoption centers.

3. Requirements

3.1 Functional Requirements

ID: FR1 - Landing Page
Description: The first page user sees after opening the mobile application.
Rational: The user needs to have a page where he can maneuver to all aspects of the the application.
Dependency: None

ID: FR2 - Signup Page
Description: The page the user registers an account for the application.
Rational: The user needs to be able to create an account through the application.
Dependency: None

ID: FR3 - Login Page
Description: The page the user logs into their account on.
Rational: The user needs to be about to log into the application with an account.
Dependency: None

ID: FR4 - Hamburger Sidebar
Description: A sidebar that allows the user to navigate to different pages at any point.
Rational: Allow the user to navigate to important pages that may not fit elsewhere.
Dependency: FR1

ID: FR5 - Navigation Bar
Description: A bottom bar that allows the user to navigate to four pages within the applications.
Rational: Allow quick access to frequently used pages.

Dependency: FR1

ID: FR6 - Create Listing Page
Description: Adoption Shelters will be able to create a listing for users to view through the app. This listing will have one or more images, a description, and possible more information about the animal.
Rational: Adoption Shelters should be able to create listings for animals on the app.
Dependency: FR4

ID: FR7 - Message System
Description: Users and Adoption Shelters will be able to interact with one another through the onboard messaging.
Rational: Both Users and Adoption Shelters need to be able to communicate.
Dependency:

ID: FR8 - Filter Page
Description: Apply filters to the filter out unwanted listings.
Rational: Users should be able to filter out unwanted results
Dependency:

ID: FR9 - [Feature Name]
Description:
Rational:
Dependency:

ID: FR10 - [Feature Name]
Description:
Rational:
Dependency:

ID: FR11 - [Feature Name]
Description:
Rational:
Dependency:

ID: FR12 - [Feature Name]
Description:
Rational:
Dependency:

ID: FR13 - [Feature Name]
Description:
Rational:
Dependency:

ID: FR14 - [Feature Name]
Description:
Rational:
Dependency:

ID: FR15 - [Feature Name]
Description:
Rational:
Dependency:

3.2 Non-Functional Requirements

ID: FR1 - Device Requirements

Description: A device capable of accessing the internet and running an Android operating system at a consistent and stable performance level otherwise the application may not function properly.

ID: FR2 - Internet

Description: An internet connection is required to access the mobile application.

ID: FR3 - Password Encryption

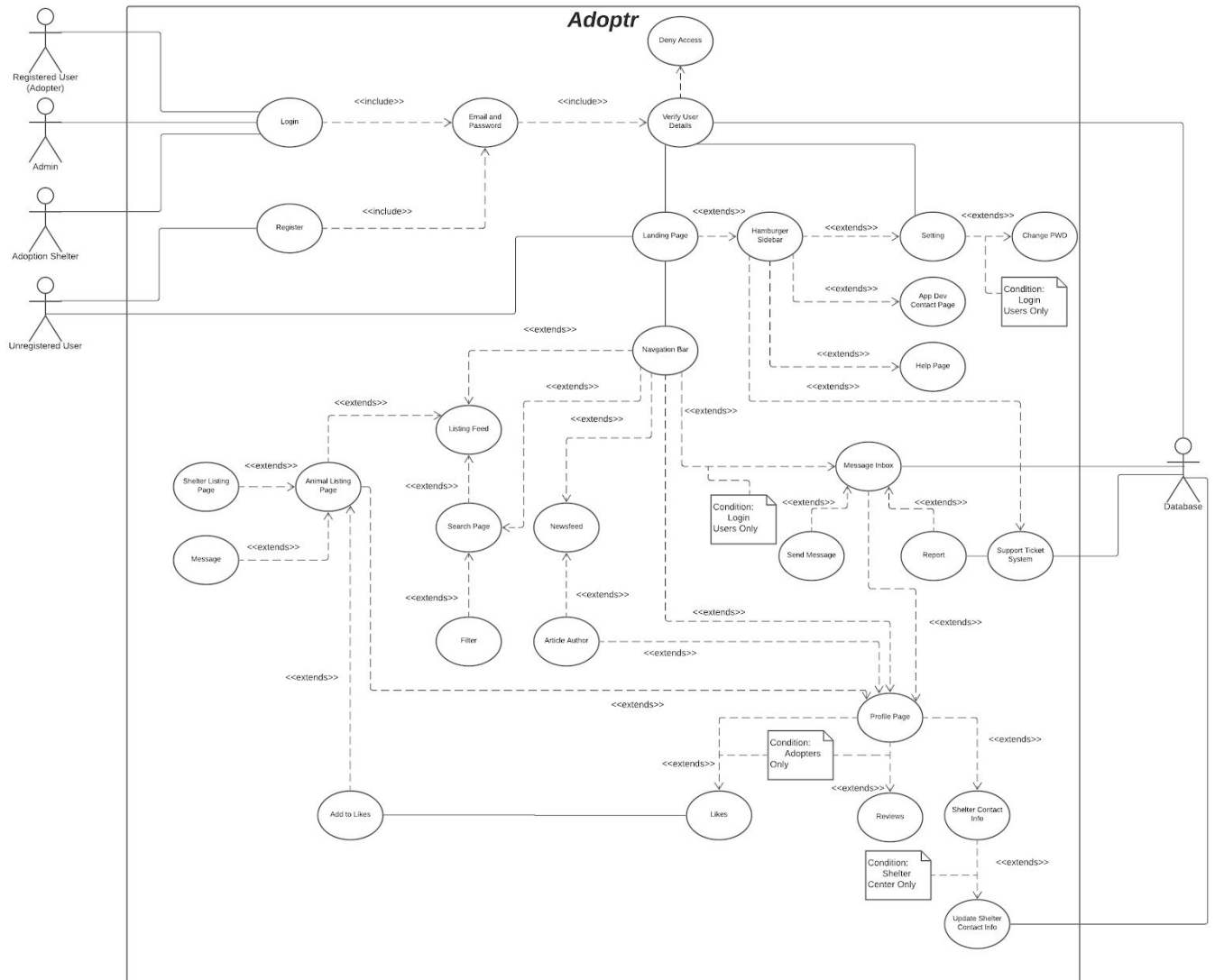Description: User created passwords is hashed then sent to the database.

ID: FR4 -   Password Verification

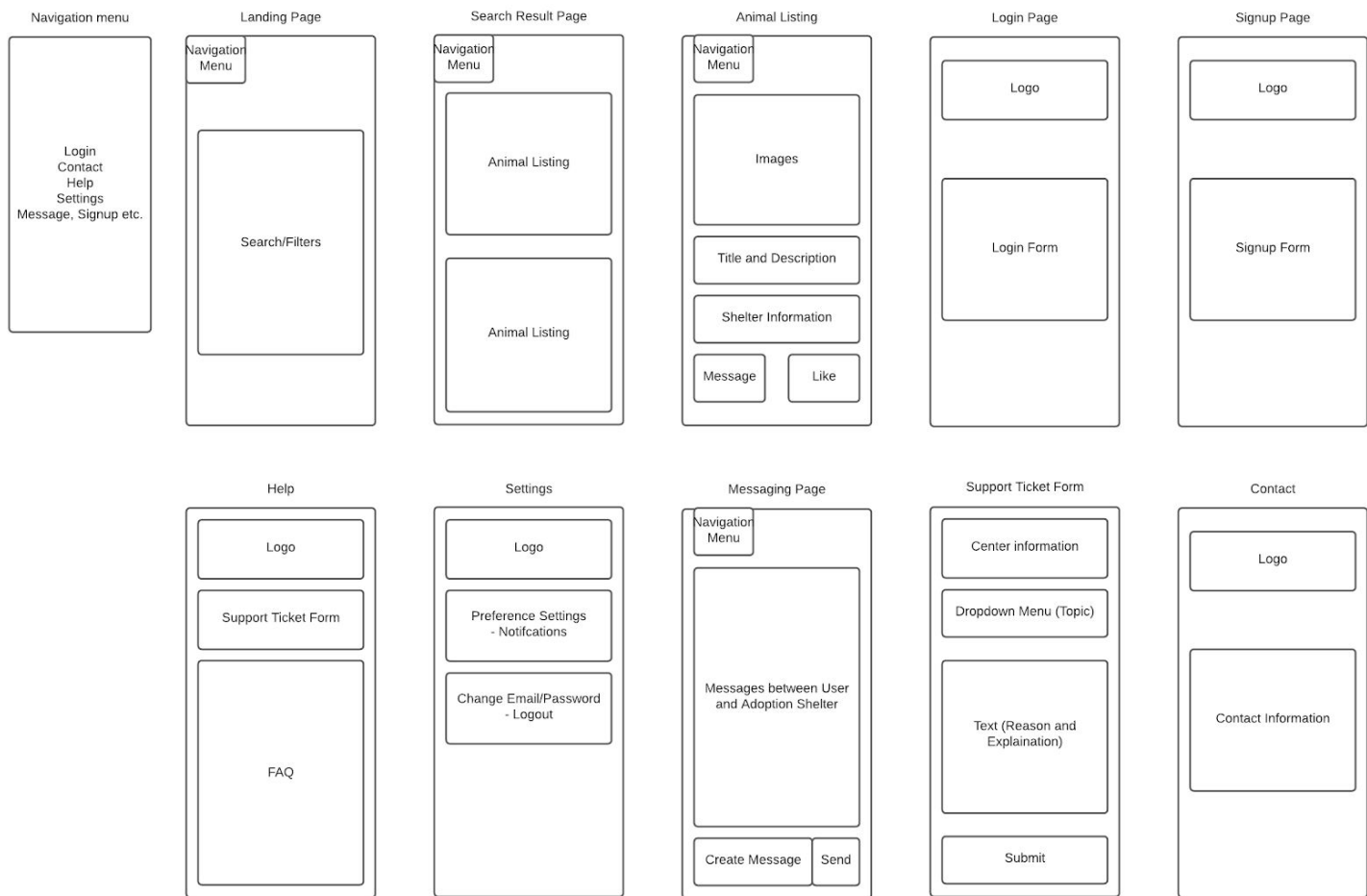Description: Verify the user's account through email.

ID: FR5 -   Email

Description: A valid email is required to sign up to the mobile application in order to operate all functionalities of the application.
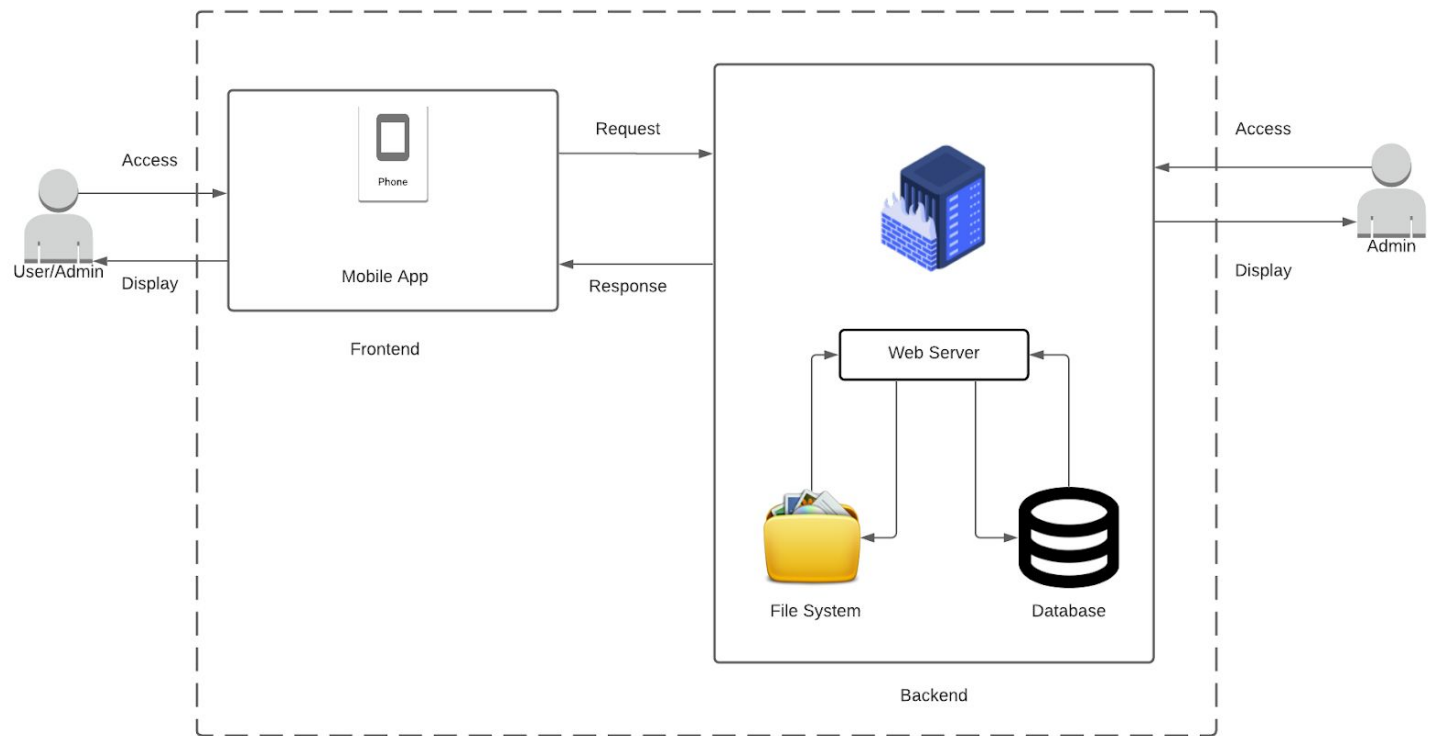
4. Diagrams

4.1 Use Case Diagram

4.2 Wireframe Diagram

Navigation menu
Login
Contact
Help
Settings
Message, Signup etc.

Landing Page
Navigation Menu

Search/Filters

Search Result Page
Navigation Menu

Animal Listing

Animal Listing

Animal Listing
Navigation Menu

Images

Title and Description

Shelter Information

Message | Like

Login Page
Logo

Login Form

Signup Page
Logo

Signup Form

Help
Logo

Support Ticket Form

FAQ

Settings
Logo

Preference Settings
- Notifcations

Change Email/Password
- Logout

Messaging Page
Navigation Menu

Messages between User and Adoption Shelter

Create Message | Send

Support Ticket Form
Center information

Dropdown Menu (Topic)

Text (Reason and Explaination)

Submit

Contact
Logo

Contact Information

4.3 Architectural Diagram

4.4 Sequence Diagram (To Do by 1nd progress check)
4.5 UML Class Diagram (To Do by 1nd progress check)