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Project Plan: Cat & Dog adoption app

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Implementation Overview

Expected delivery

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Platform, framework & API

- Android OS
- Android Studio
- Jetpack Compose
- Authentication
- SQL storage
- Notifications
- Maps API
- CameraX API

Week 1 - Setup and planning

API decisions

- Planning for scope

- Which APIS' to use

UI decision

- UI ideas and how the app should look.

- Tinder-like app but for animals since it's a familiar UI to use.

Week 2 - Basic Framework Setup

User Interface

- Implement basic user interface with jetpack compose

SQL

- Implement authentication for SQL

Week 3 - Core Features

Core development

- Develop features to create and manage user profiles (individual/shelter).

Pet addition

- Implement pet addition feature with SQL Database and Storage.

Week 4 - Features & Refinement

Advanced Features

- Implement search functionality with criteria filtering.

- Add notification system.

Refinement

- Spam reduction system. Limit max messages sent per time duration.

Week 5 - Testing & Final Touches

Testing

- Conduct thorough testing (unit tests, UI tests

Final Touches

- Refine UI/UX based on test feedback.

- Prepare documentation and presentation material.

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Week 6 - Finalization

Presentation

- Finalize app for presentation.

Practice

- Practice presentation and prepare for Q&A sessionn material.

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Supervision Milestones

- First Session: Project scope, initial designs, and setup.

- Second Session: Basic UI and authentication features.

- Third Session: Profile management and pet addition features.

- Fourth Session: Advanced search, notification, and messaging systems.

- Final Presentation: Complete app demonstration.

Functions of the app

User Account Creation and Management

- **Individual and Shelter Accounts:**
  Ability for users to sign up as either an individual or an animal shelter. This distinction should be clear in the account details.

- **Profile Customization**: Users should be able to edit their profiles, including contact information, preferences, and other relevant details.

Pet Profiles

- **Adding Pets:**
  Shelters and individuals can add pets available for adoption, including details like age, breed, photos, and health information..

- **Editing and Managing Pets**:
  Users should be able to edit and update information about the pets they've listed

Photo Upload and Management

- **Camera Integration:**
  Camera Integration: Users can take pictures of the pets using the app's built-in camera functionality.

- **Photo Uploads**: Allow users to upload and manage photos of pets from their device.

Search and Filter Functionality

- **Basic Search:**
  Users can search for pets using basic criteria like species (cat or dog), breed, age, and location.

- **Advanced Filters**: Implement advanced filtering options to help users find pets that match specific criteria such as size, temperament, special needs, etc.

Notifications and Alerts

- **Criteria-Based Alerts:**
  Users can set up alerts based on specific criteria (like breed, age, or location), and get notified when new pets matching their criteria are added.

Messaging and Communication

- **In-App Messaging:**
  Enable secure messaging within the app to allow users to communicate about potential adoptions.

- **Contact Information Sharing:**
  Users should be able to share or view contact information based on the app's privacy settings.

Spam Reduction and Messaging Management

- **Spam Reduction System:**
  Implement features to reduce spam in messaging, such as limits on initial contact messages or verification steps.

- **Fair Messaging System:**
  Ensure that users who cannot immediately respond to messages are not penalized, perhaps by implementing a system that doesn't solely prioritize speedy replies.

User Support & Help Section

- **FAQ and Help Section:**
  Have a page in the app with FAQ and a support function.

Privacy & Security

- **Data security:**
  We have to make sure that all of the users information is encrypted and stored in a secure way.

- **Privacy control:**
  Provide users with control over what information they share publicly and what remains private.

Goals for next meeting

1. Development Enviornment

2. User Interface

3. Login Functionality