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Deadline presentation 10 januari.

Project plan including:

- Frameworks, APIs, etc that you consider using.
- Platform for which the project is going to be developed.
- A timeline for the project work covering the time from the first supervision meeting up to the final presentation.
- The timeline should include a list of presentable functionalities for each supervision session.

Cat & Dog Adoption App

An animal shelter wants to have an App that simplifies the adoption process. The app is intended to make it easier for pets to find new homes. Some realities of pet adoption are being skipped to simplify the project.

Required features:

- Users can create accounts on the app. The accounts are either individual or an animal shelter and this is a clearly visible detail about the account.
- Users can use the app to take pictures of the pet.
- Users can search for the candidate pets for adoption.
- Users can setup a criteria system that will notify them when new pet is added if it meets the criteria.
- Users can contact each other about the potential adoptions.

For increased grade:

- There is a system that reduces spam messaging.

- There is a system that makes it so that people who cannot immediately message owners are not penalized.

Development Platform

- **Platform:** Android.
- **Development Environment:** Android Studio

Frameworks and APIs

- **User Interface:** Jetpack Compose or android studio Layout Editor.
- **Database:** mySQL or microsoft server management.
- **Authentication:** Own Authentication. Two-Factor? (for account creation and management)
- **Storage:** Store images etc in the SQL Database (to store pet pictures). Account details, location, price and so on.
- **Notifications:** Own Messaging functions. For example you might have set a criteria to only notify you about brown labradors or orange cats.
- **Maps API:** [Maps SDK for Android](#) in order to show the location of the animals.
- **Camera Integration:** CameraX API in order to take pictures of your animals.

Project Timeline

Week 1: Initial Setup and Planning

- Planning for scope and which apis to use and how the app should look.
- Tinder-like app but for animals since it's a familiar UI to users.

Week 2: Basic Framework Setup

- Implement basic user interface with Jetpack Compose.
- SQL Authentication.
- Second supervision meeting: Present basic UI and login functionality.

Week 3: Core Features Development

- Develop features to create and manage user profiles (individual/shelter).
- Implement pet addition feature with SQL Database and Storage.
- Third supervision meeting: Demonstrate profile management and pet addition.

Week 4: Advanced Features and Refinement

- Implement search functionality with criteria filtering.
- Add notification system.
- Spam reduction system. Max message limit per 10 minutes. Can't send exact same message twice in a row. minimum 2 characters per message.
- Fourth supervision meeting: Showcase search, notification, and messaging features.

Week 5: Testing and Final Touches

- Conduct thorough testing (unit tests, UI tests).
- Refine UI/UX based on test feedback.
- Prepare documentation and presentation material.

Week 6: Final Presentation Preparation

- Finalize app for presentation.
- Practice presentation and prepare for Q&A session.

Deadline: 10 January

- **Final Presentation:** Demonstrate the fully functional Cat & Dog Adoption App.

Milestones for Each Supervision Session

- **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

For the Cat & Dog Adoption App you're developing, there are several necessary functions to ensure it meets the core requirements and provides a good user experience. Here's a breakdown of these essential features:

1. 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.

2. 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.

3. Photo Upload and Management

- **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.

4. 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.

5. 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.

6. 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.

7. 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.

8. User Support and Help Section

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

9. Privacy and Security

- **Data Security:** We have to make sure that all of the users information is encrypted and stored in a secure way.
- **Privacy Controls:** Provide users with control over what information they share publicly and what remains private.