Pet Adoption app

🐾 Project: Pet Adoption App (Jetpack Compose Edition)

🐶 Core Features

- **Pet Listings**: Browse a list of adoptable pets, with details like breed, age, and location.
- **Pet Detail View**: Tap a pet to view full details—photos, bio, and contact info.
- **Like & Save Pets**: Users can "like" pets to save them locally for easy access later.
- **Contact Form**: A simple form (mocked or functional) to simulate contacting the shelter or rescue.

🧱 Tech Stack & Components

- **Network Call (API)**:
  - Use the **Petfinder API** to fetch real adoption data (requires API key).
  - Alternatively, start with **mocked JSON** data for simplicity.
  - **Retrofit** handles network requests and parses the pet data.
- **Room Database (Local Storage)**:
  - Stores "liked" pets locally so users can favorite and revisit listings.
  - Basic schema with fields like pet name, type, image URL, and ID.
- **Jetpack Compose UI**:
  - Uses **Composable functions** to build:
    - Pet list screen (using **LazyColumn**)
    - Pet detail view (with photos and info)
    - Contact form (input fields + button)
  - Smooth, reactive UI with modern design.
- **Navigation Compose**:
  - App navigation follows a simple **master-detail** flow: → **List of Pets**
    → **Pet Details**
    → **Contact Form**
- **ViewModel + State Handling**:
  - **ViewModel** holds app data and handles business logic.
  - UI updates dynamically through **State**, **LiveData**, or **StateFlow**.

✅ Why It's a Great Project

- A clean example of the **master-detail pattern**.
- Combines **API usage**, **local storage**, and **user interaction**.
- Helps you practice:
  - Working with lists and detail views in Compose
  - Retrofit setup and parsing
  - Room DB for saving favorites
- Easy to expand:
  - Add pet filters (by species, size, distance)
  - Implement real contact messaging
  - Add maps or shelter location features