

# PROJECT 05 - PETFINDER (ANDROID)

## GITHUB

<https://github.com/EsmailElhanash/PetFinder>

## TYPE

Android app (public code)

## DATE

Published/Completed: Mar 13, 2024

## ONE-LINE SUMMARY

An Android app that helps users discover adoptable pets with a clean list experience, dynamic type filters, infinite-scroll pagination, and a detailed pet profile screen with a direct website link.

## CORE USER EXPERIENCE

- Browse a list of pets with photos and key info (with placeholders when data is missing)
- Switch types instantly using a horizontal filter bar (All, Cat, Horse, Bird, Rabbit)
- Scroll to load more results automatically
- Open pet details and jump to the official profile URL

## KEY FEATURES (FROM CODE)

- Infinite scrolling using RecyclerView OnScrollListener + nextPageToBeLoaded
- MVVM style with ViewModel + LiveData (animals list, loading state, current type)
- Access token flow (OAuth) with local caching in SharedPreferences
- Pet details screen with “Open Website” button (Intent.ACTION\_VIEW)

## MY ROLE

Android Developer

## TECH STACK (FROM build.gradle + code)

- Kotlin, XML + ViewBinding, Fragments + RecyclerView, MVVM style (ViewModel + LiveData), Coroutines, Retrofit + OkHttp + Gson, Glide (image loading), Material Components

### - Build info

- compileSdk: n/a
- targetSdk: 34
- minSdk: 26

## TECHNICAL HIGHLIGHTS

- Smooth list browsing with stable pagination and loading protection (avoid double loading)
- Fast filter switching while keeping pagination state consistent
- Reliable token refresh/caching to keep API calls working without user friction

## PROOF ASSETS INCLUDED

## **Screenshots**

- petfinder\_screen\_01\_pet\_list\_filters.png
- petfinder\_screen\_02\_filter\_cat\_placeholders.png
- petfinder\_screen\_03\_filter\_horse\_list.png

## **Branding (optional)**

- petfinder\_brand\_paw\_heart.jpg