

Objective:

Build a simple Jetpack Compose app that fetches random cat images using the provided public API and displays them in a list. The app should follow Clean Architecture, dependency injection, and unit tests.

API Details:

Use the following API to fetch images:

<https://api.thecatapi.com/v1/images/search>

Requirements:

1. Jetpack Compose for UI.
2. Retrofit for network requests.
3. Kotlin Coroutines for asynchronous operations.
4. Clean Architecture to structure the code properly (preferred with MVI/MVVM).
5. Dependency Injection (Hilt) for managing dependencies.
6. Unit Tests to cover core logic.

App Features:

- **Fetch and Display Images:**
 - On app launch, fetch 10 random images and display them in a list.
- **Refresh Button:**
 - Add a button to fetch a new set of 10 images.
- **Error Handling:**
 - Display an error screen when:
 - No internet connection.
 - The API returns an empty response.
 - The API request fails (e.g., 404, 500 errors).
- **Focus on code quality and architecture rather than UI design.**
- **The project should be testable, with at least unit tests for data fetching and error handling.**
- **The solution should be published on Github public repo.**