



MOBILE APPLICATION DEVELOPER

USTH

Github Client

USER INTERFACE + NETWORKING + API CONFIGURATION

FINAL PROJECT

2024

.....

OUR TEAM

Mobile Application Development Group

ĐỖ CÔNG TUẤN HƯNG 22BI13181

TÔ THANH HẢI 22BI13148

TRỊNH ĐỨC ANH 22BI13043

NGUYỄN ĐÌNH HẢI 22BI13146

PHẠM HOÀNG DƯƠNG 22BI13115

NGUYỄN DŨNG 22BI13104

Introduction

.....

- Previously on GitHub
- What is new?

ACTIVITIES

PrimeActivity

Main Activity to execute the whole project

Adapter

- Adapter For Explore Drag
- Adapter For Home Drag
- Adapter For Profile Drag
- Repo Adapter
- Repo File Adapter
- WorkFlowAdapter

Models + ViewModels

- File Content
- File Update
- File Upload
- File Download
- Repo + Workflow
- Repo File

Fragments

Fragments Desgin

Api

Async access with Retrofit

- ApiClient
- GithubService

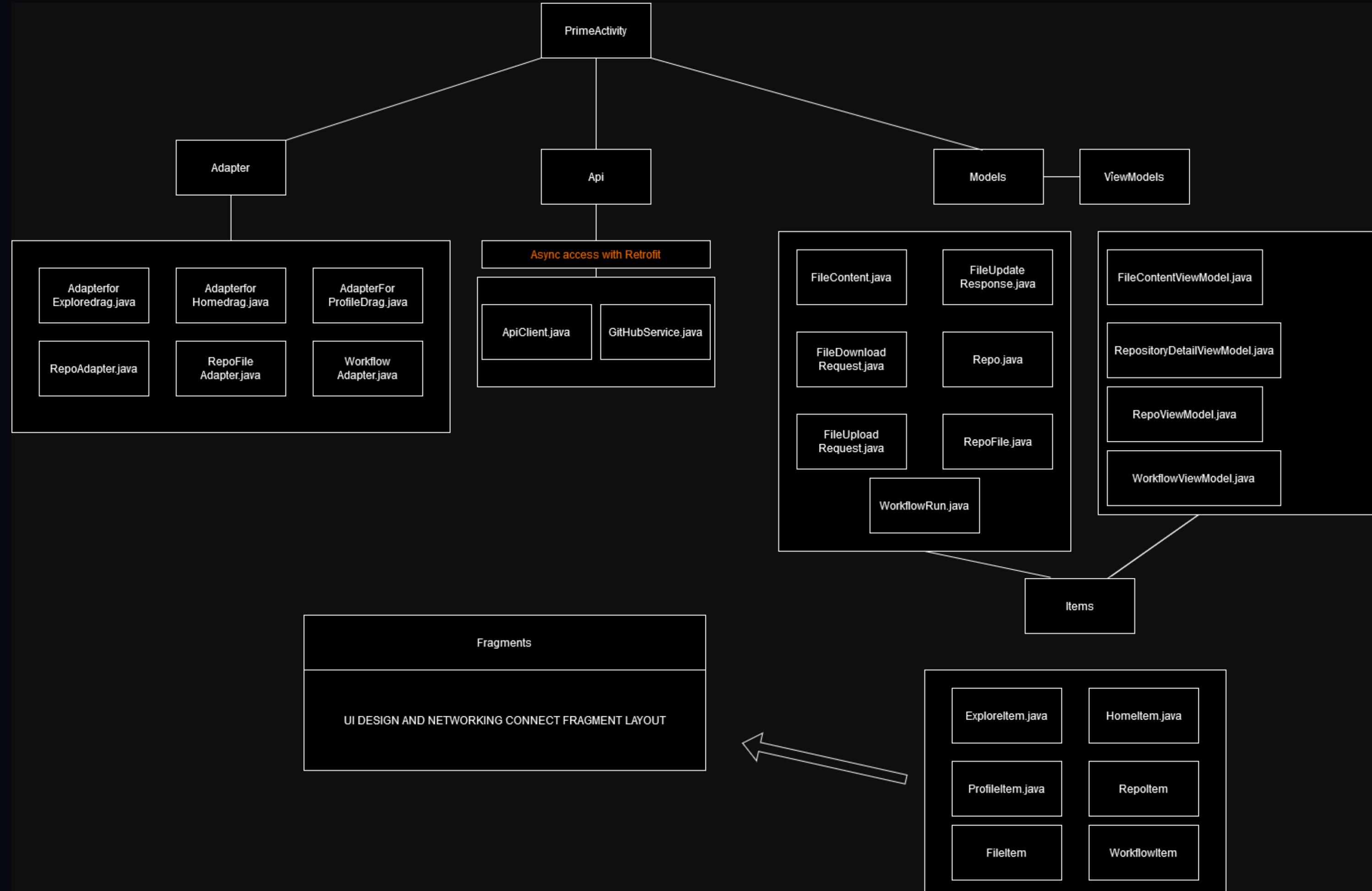
Item

- Explore Item
- Home Item
- Profile Item
- Repo Item
- Files Item



ARCHITECHTURE

Layout



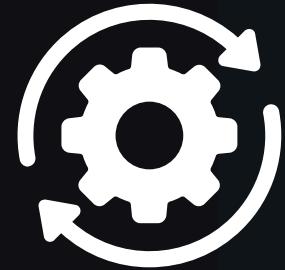
NETWORKING

Using API_TOKEN from github account

- Login to the Github account, receive information: email, username, follow
- View all repositories of the account signed in
- Open repositories, view files inside
- View content of all the files
- Git push endpoints
- Download to local android endpoints



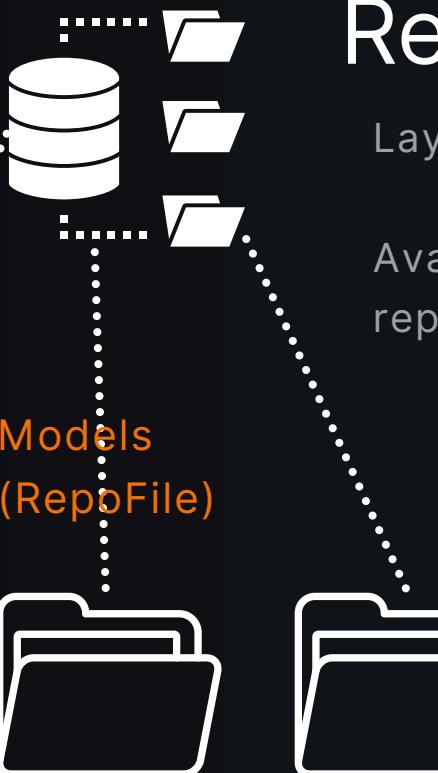
API FETCHING NETWORK'S MAP



WorkflowAdapter

Workflows

Layout: fragment_workflows
item_workflow
Available: view all the workflow of Github account

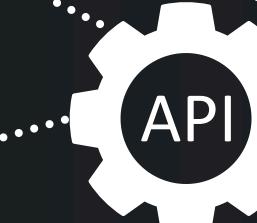


Repositories

Layout: fragment_repos
item_repo
Available: view all the repositories of Github account

Files in repositories

Layout: fragment_repository_detail
Available: view all the files inside a repository



API token
from Github
ApiClient



User Information

Layout: fragment_profile_status
Available: View the information of user: email, name, follow



Download/Clone

Layout: fragment_repository_detail
Available: Download/ Clone files from github



Upload/Push

Layout: fragment_repository_detail
Available: Upload/ Push files from github

GithubService
GithubService
GithubService
GithubService

THE
DEMO



.....

OPTIMIZATION

What we did

Back-stack

- Manage fragment run-time

Navigation to GitHub

- Connect the app to GitHub

What we could improve

UI

- Cleaner/ better

Comprehensive structure

- Layouts, adapters, fragments

THANK YOU

FOR LISTENING