MINAB
IT SOLUTIONS

Bahir Dar University

Mobile App Development Class 04, Series 04

Mobile App

Hahu Jobs

CLASS 01

01 Network Requests

02 Data Persistence

03 Examples

Hahu Jobs

Network Requests in Flutter

Most apps have to perform network requests over the internet to obtain of resources that are important for the application to work properly. As such, it’s important to handle network calls elegantly to avoid unnecessary errors in API calls. flutter offers a couple of solutions to handle network calls.

MINAB IT SOLUTIONS

HahuJobs

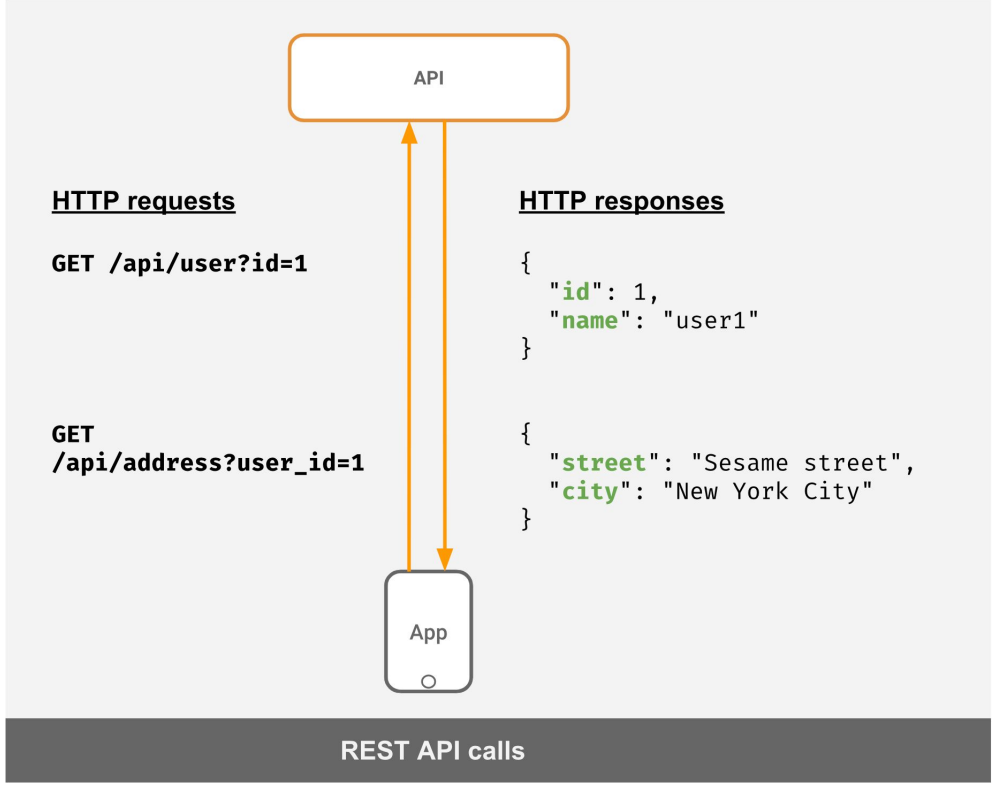
Network Requests in Flutter

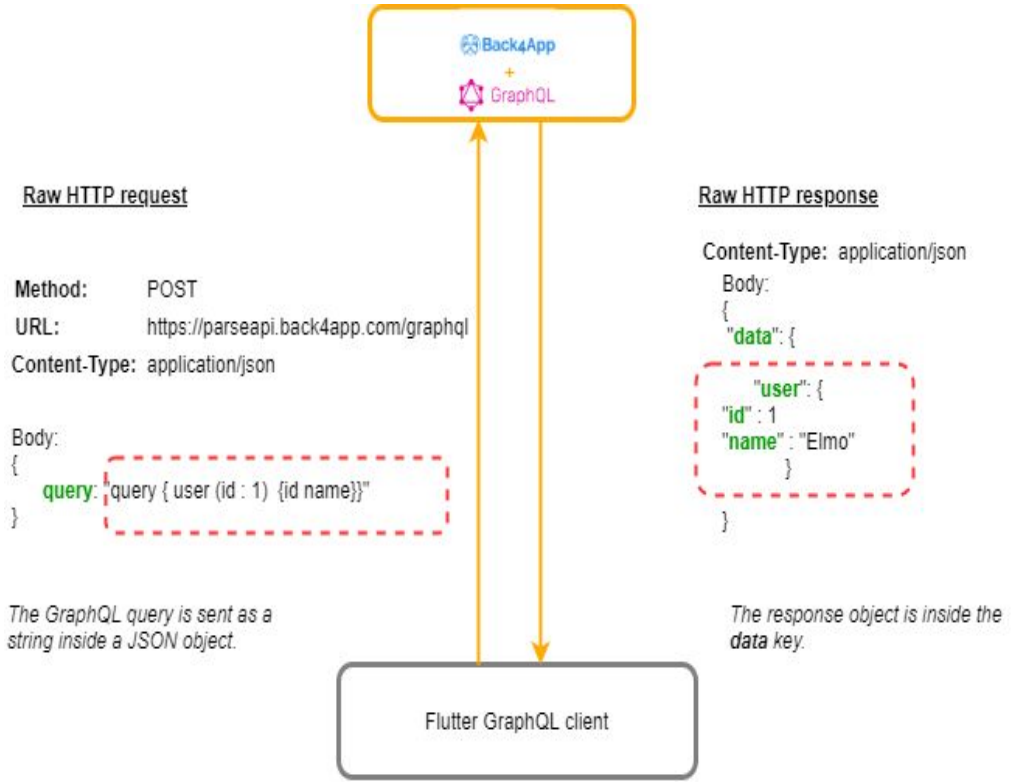
Network request tools

- http - is a multiplatform package based on dart's native network call methods ,its developed by dart team and it simplifies the way requests are made by using high level functions and classes.
- dio - is also package based on dart native implementation of http requests , in addition to basic functionalities it provides a range features like processing FormData , request interceptors and file download.
- graphql_flutter - is a package that provides an idiomatic flutter API and widgets for a flutter client. It implements a builder and with query ot mutation options based on the type of request specifications.

Network Requests in Flutter

http vs graphql





MINAB IT SOLUTIONS

HahuJobs

Data Persistence in Flutter

What is it?

is a way of saving data even when the app is not running , it's used to keep user preferences , save tokens on the device or even create databases to save structured pieces of information. The following are packages that assist to achieve this functionality.

Data Persistence in Flutter

Data Persistence Tools

- sqflite - package provides classes and functions to interact with a SQLite database.
- shared_preferences - is a package that is used to save simple key value pair data, it's usually used to store user preferences.
- flutter_secure_storage - is a package that is mostly used to store tokens securely. It provides encryption to hide the information it saves.
- drift - is a reactive persistence library for Flutter and Dart, built on top of sqlite.

Data Persistence in Flutter

Practice Time

- Build an app that saves an information fetched from a server,and perform CRUD operations.
- Consume this api to show characters, episodes and locations.
- Implement your local database using drift.
- Implement pagination
- Add detail pages for all three models
- implement tab navigation in the locally saved models.

MINAB IT SOLUTIONS

HahuJobs

MINAB
IT SOLUTIONS

Thank you!

HahuJobs

ለሀገር ልጅ በሀገር ልጅ !

Tesfahun Kebede
tesfahunkebede336@gmail.com