

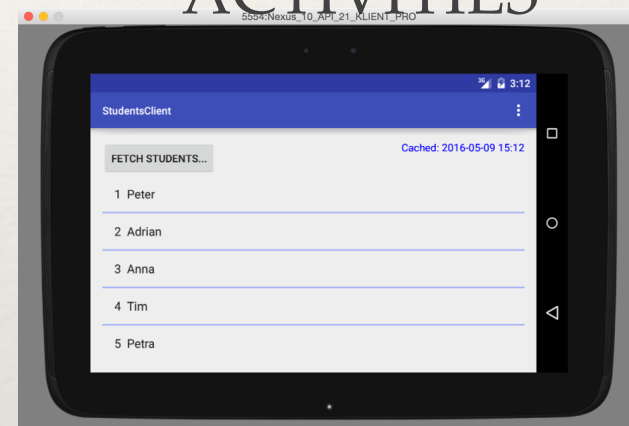
StudentService

THE CLIENT

Features...

- ❖ Tried to separate the Controller from the View as much as possible
- ❖ shared 'commons'-package with Server
- ❖ preference-activity / user settings
- ❖ difficult Exception-handling

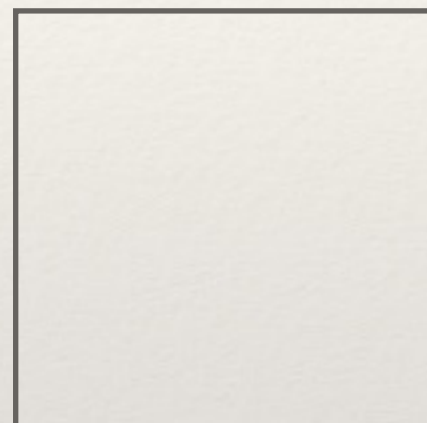
ACTIVITIES



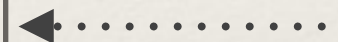


<<Singleton>>

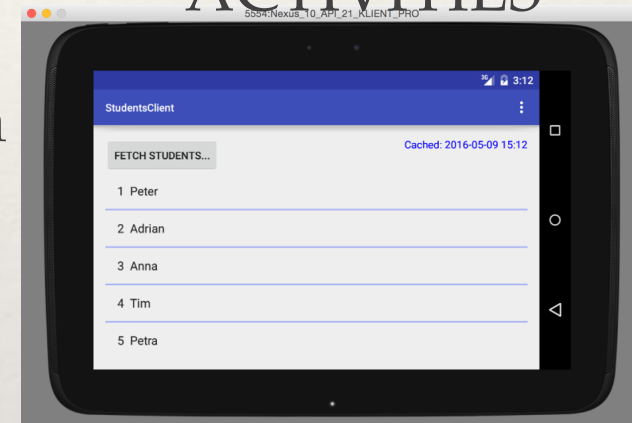
DataManager



User Action



ACTIVITIES



Get students from
cache

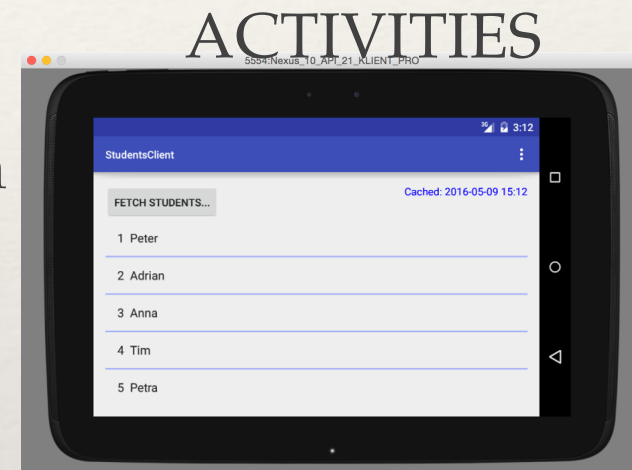
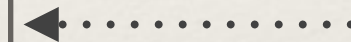


<<Singleton>>

DataManager



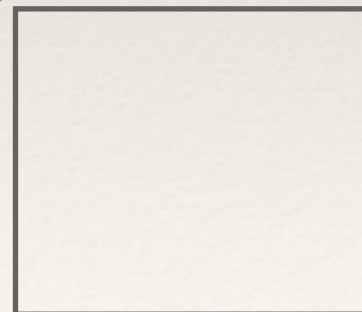
User Action



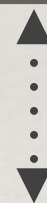
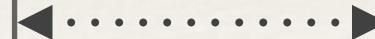
ACTIVITIES



DBHandler



SQLite_DB

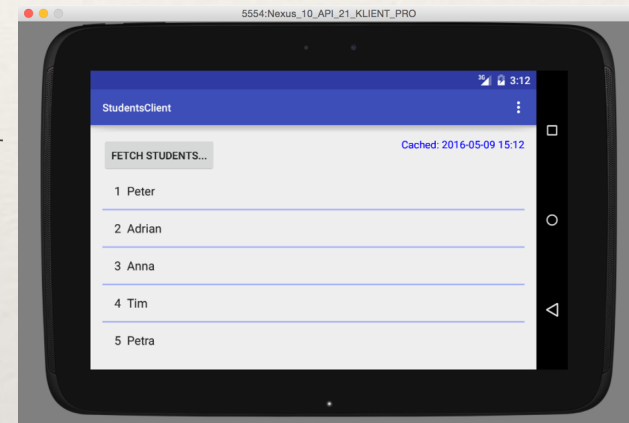


**Send data back to client-
A secret for now...!**

Cache data fetch data

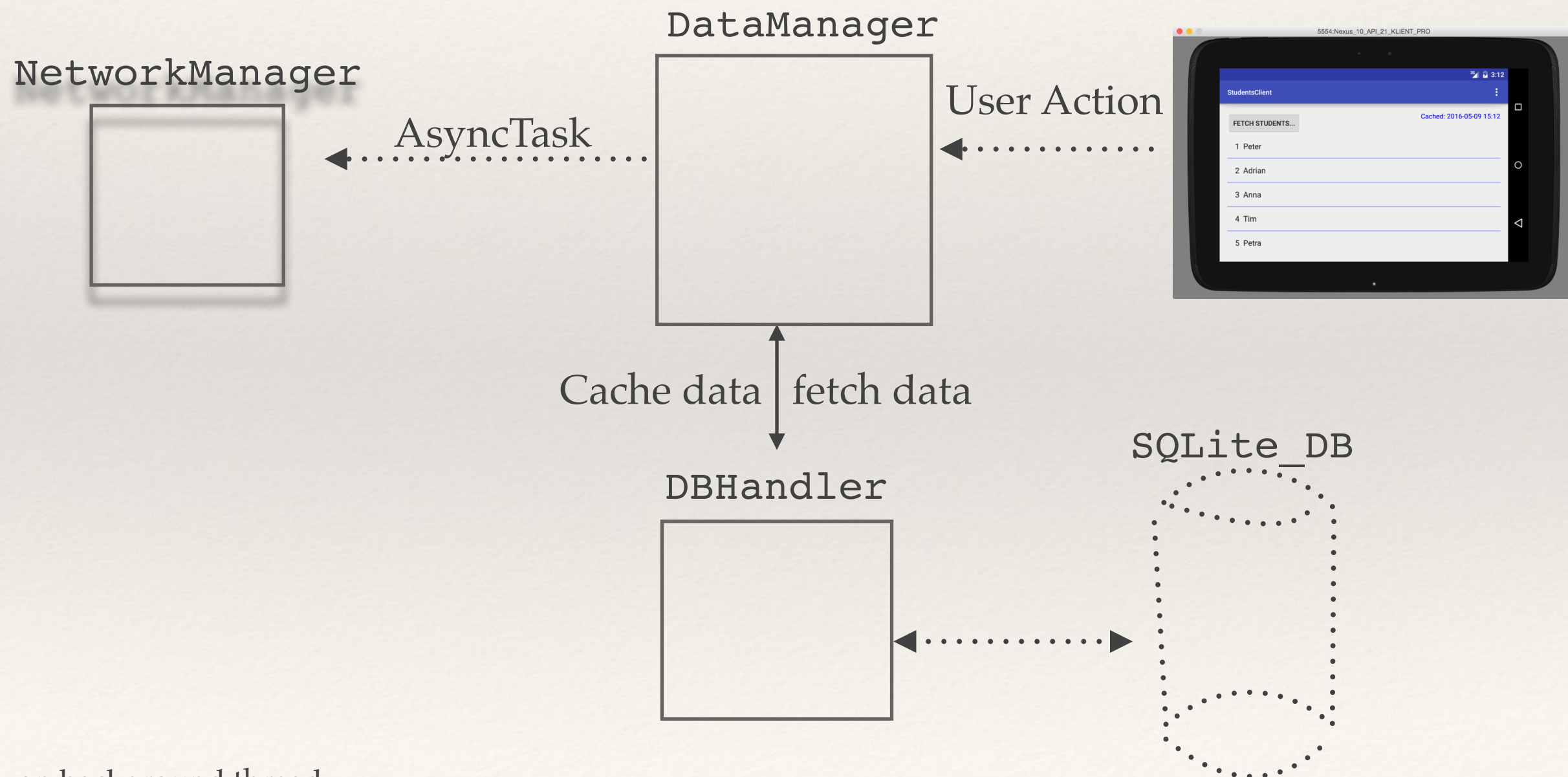
DBHandler

SQLite_DB



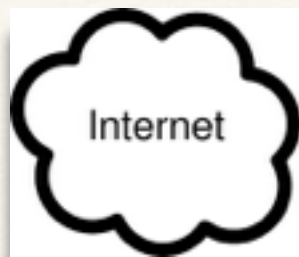
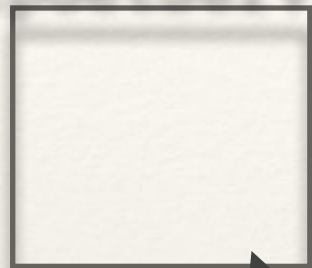
shadow = on background thread

Fetch updated data
from a service



shadow = on background thread

HttpGetService

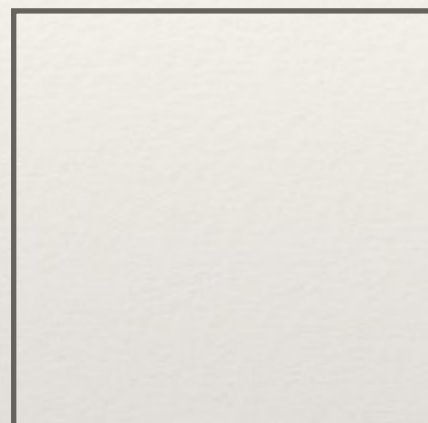


fetch content
NetworkManager

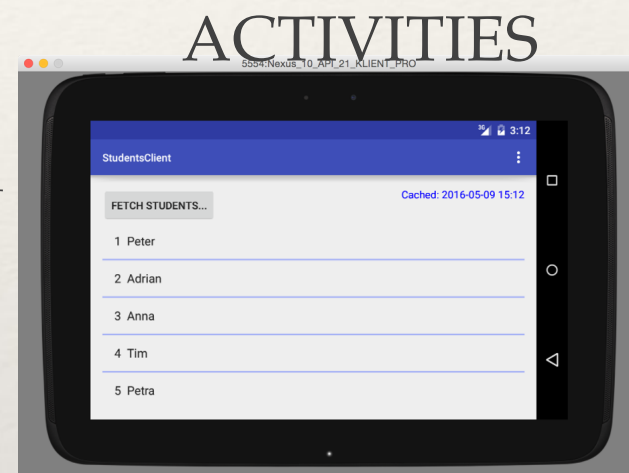


AsyncTask

DataManager

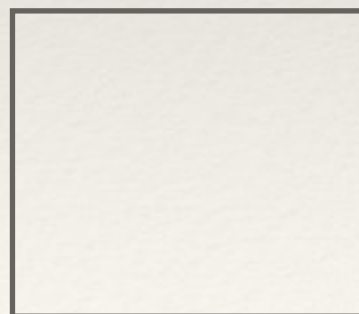


User Action



Cache data fetch data

DBHandler

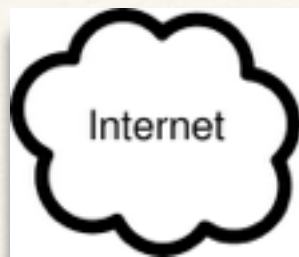
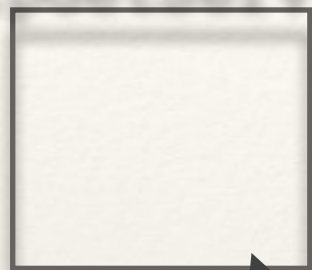


SQLite_DB



shadow = on background thread

HttpGetService



Fetch updated data
from a service

fetch content

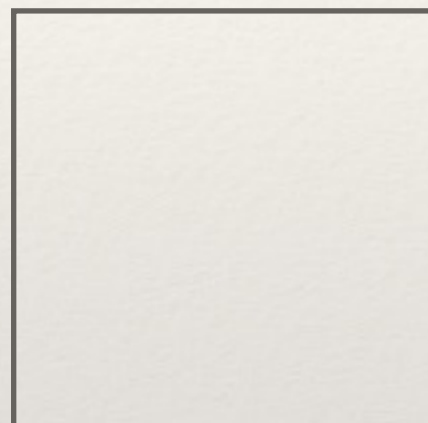
NetworkManager



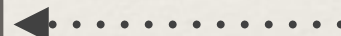
AsyncTask



DataManager



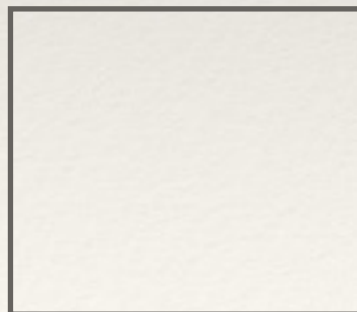
User Action



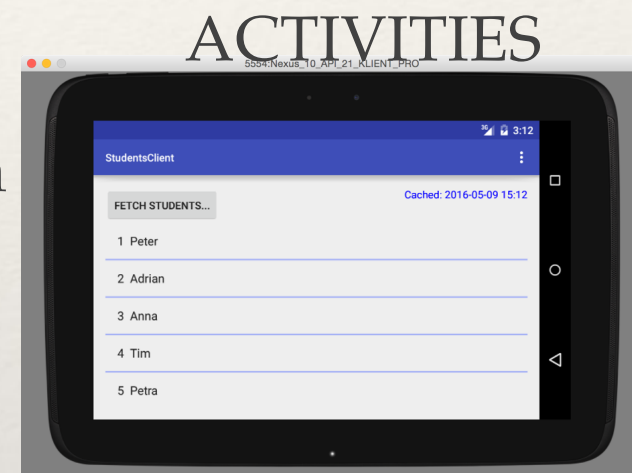
Cache data | fetch data



DBHandler



SQLite_DB

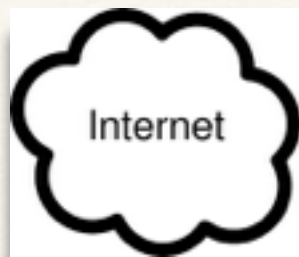
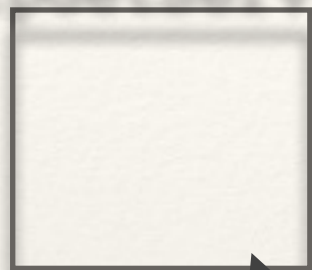


IServiceProvider

- file system?
- data base?
- ...

shadow = on background thread

HttpGetService



Fetch updated data
from a service

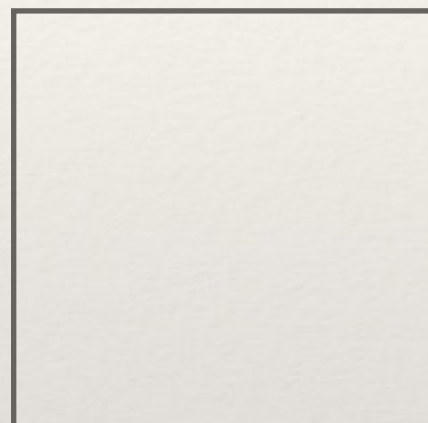
fetch content
NetworkManager



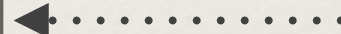
AsyncTask



DataManager



User Action



translate content



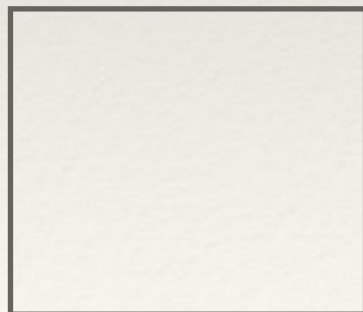
JsonReader

Cache data



fetch data

DBHandler

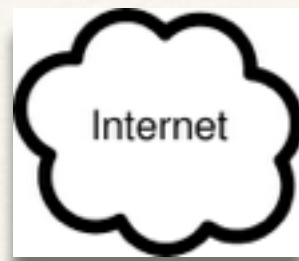


SQLite_DB



shadow = on background thread

HttpGetService



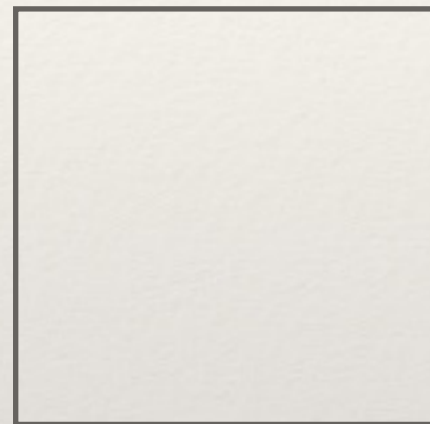
Fetch updated data
from a service

fetch content
NetworkManager

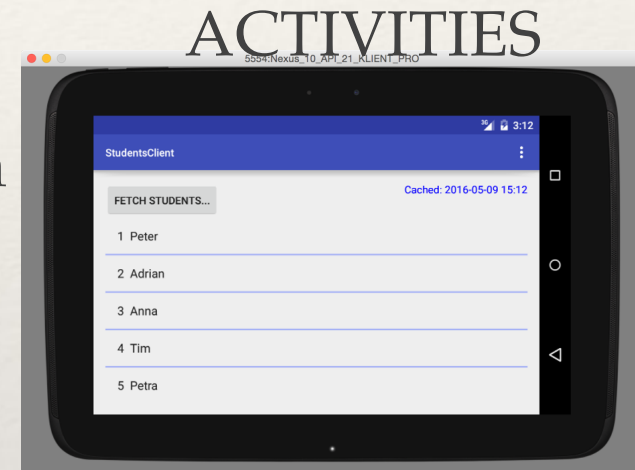


AsyncTask

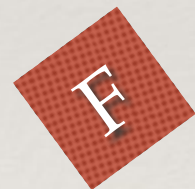
DataManager



User Action



translate content



Factory - global format setting

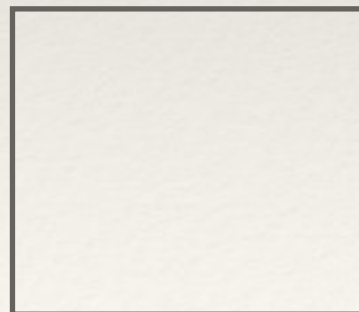


IContentReader

JsonReader

Cache data fetch data

DBHandler

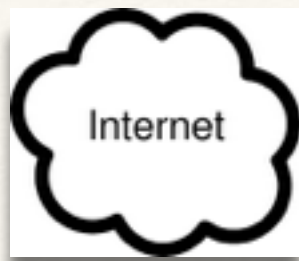


SQLite_DB



shadow = on background thread

HttpGetService



Callback to client

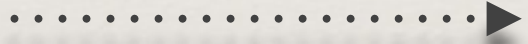
NetworkManager



AsyncTask



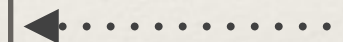
Result Callback



DataManager



User Action

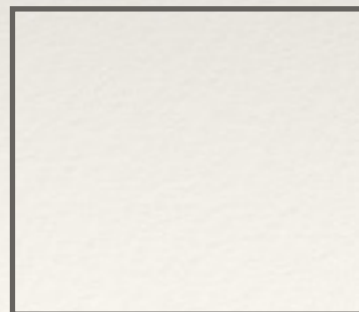


Cache data



fetch data

DBHandler



SQLite_DB



translate content

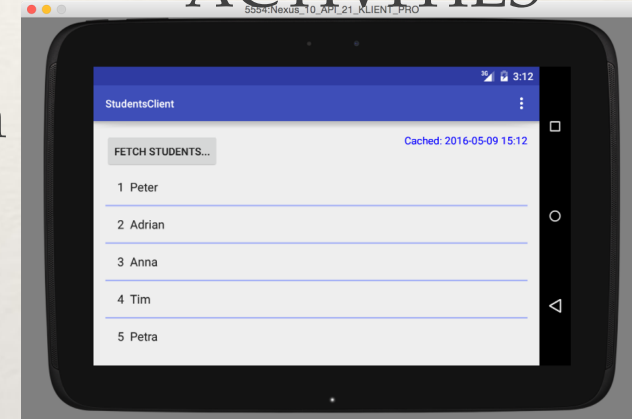


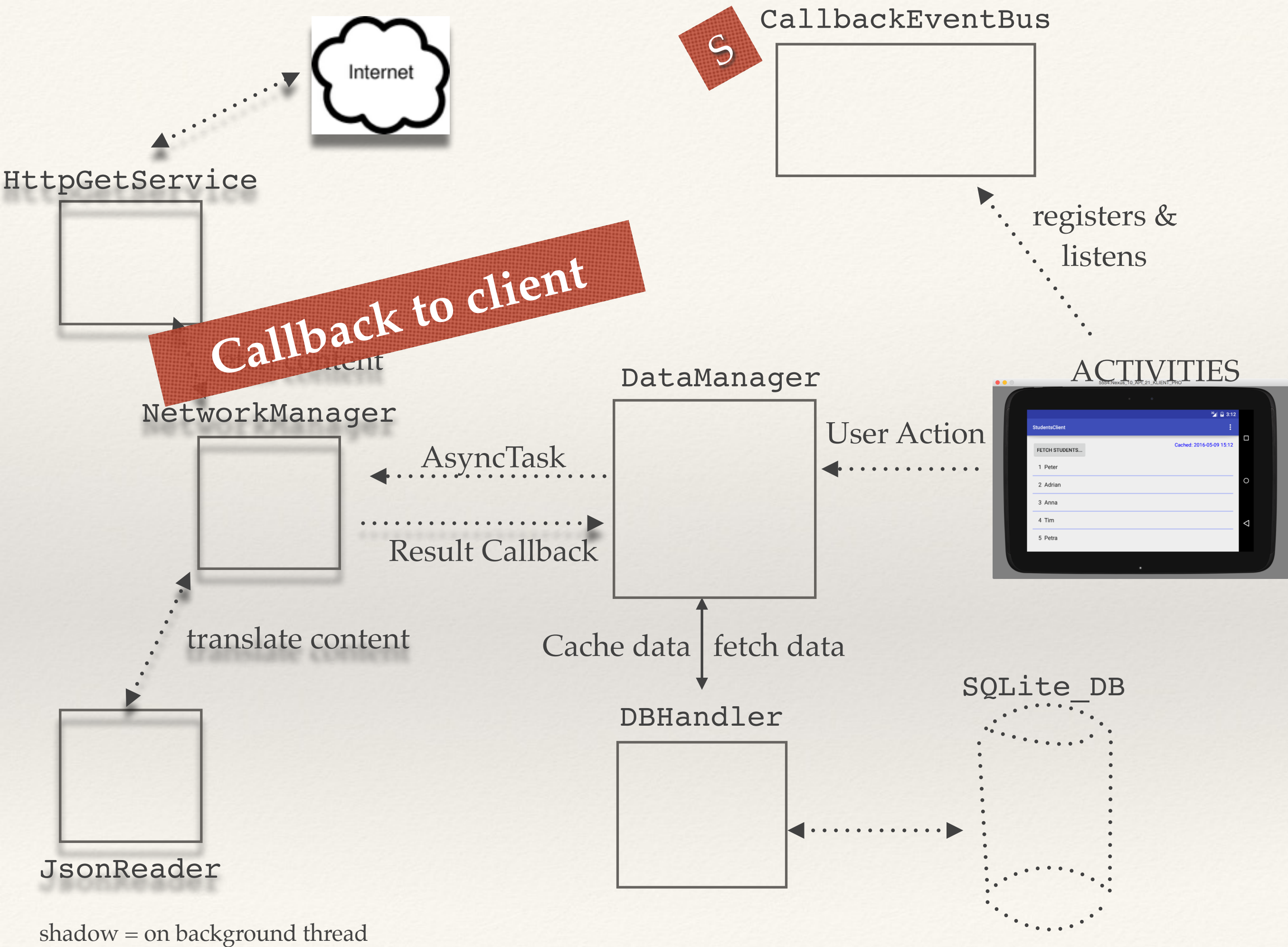
JsonReader

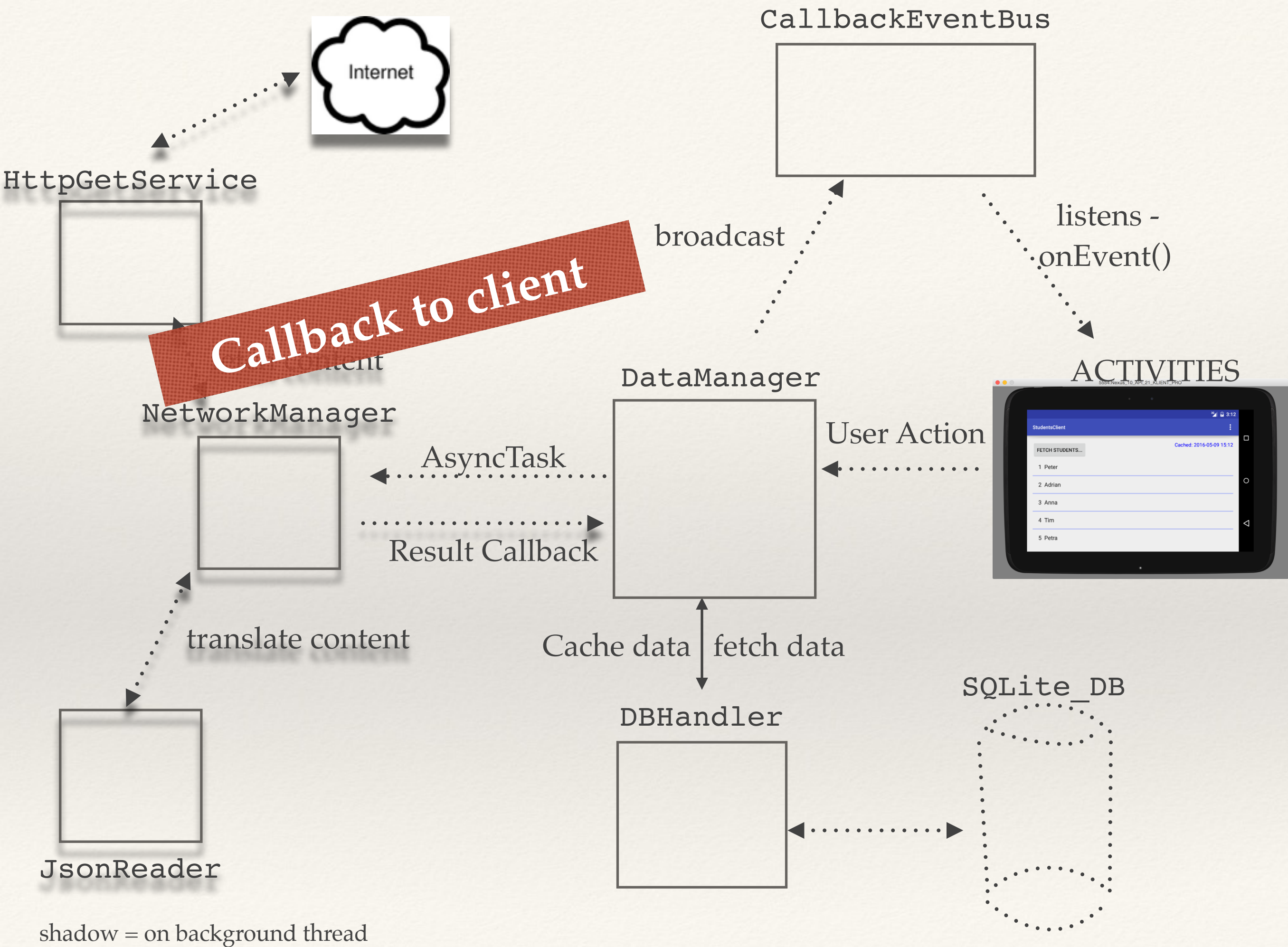


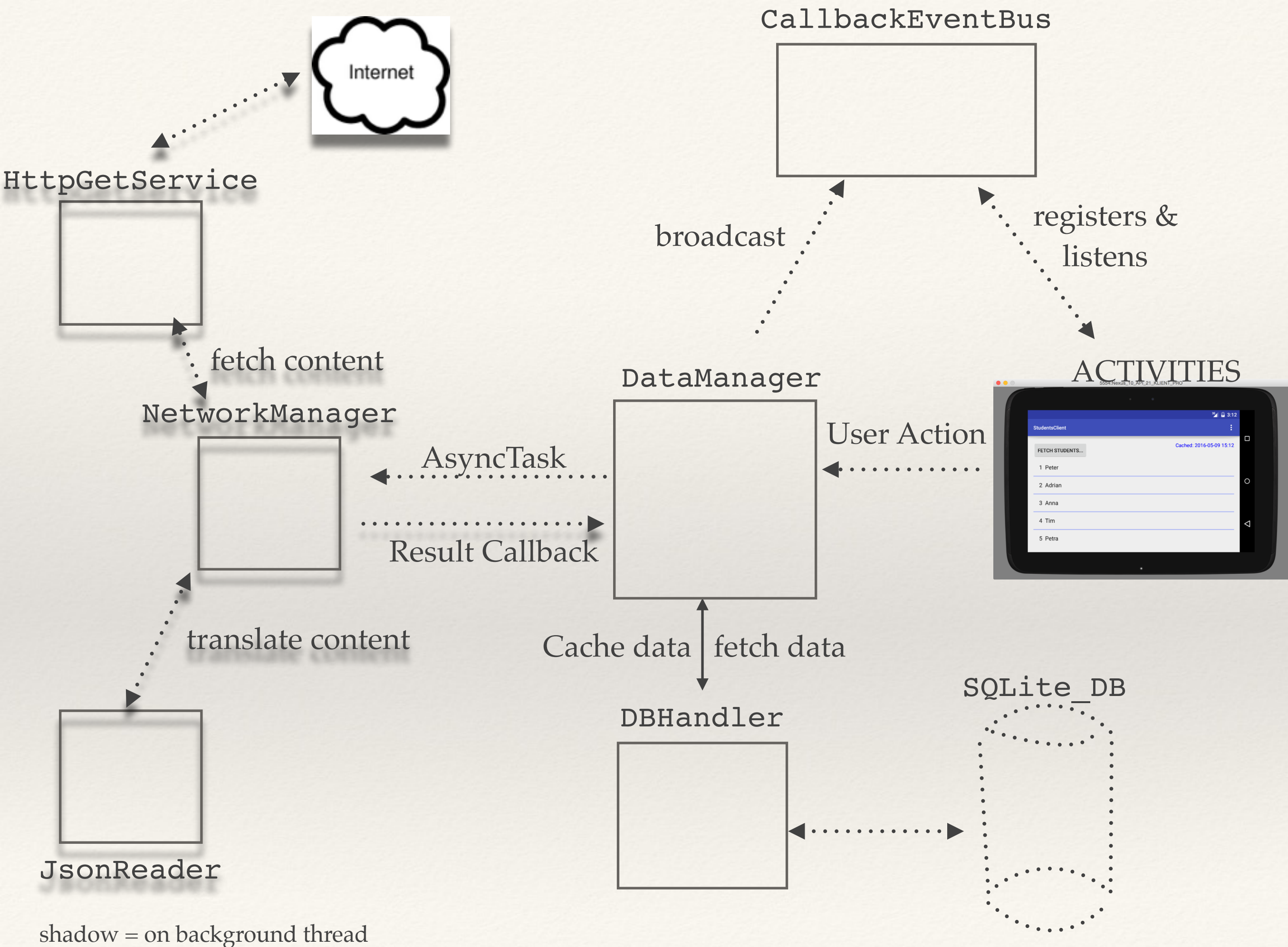
shadow = on background thread

ACTIVITIES









To improve...

- ❖ Toast error-messages shows to long, other form of feedback?
- ❖ Why so difficult exception-handling if only simple messages are shown?!
- ❖ clean up commons-package (global specifications)
- ❖ split up constants to shared preferences (user settings), property file in commons (global settings for developers) and local private constants (real hidden constants)
- ❖ A simpler design better (no different services, transport formats, or strict separation of view / controller needed)

Thanks