News App Stage 1

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Overview

- JSON
- 2 HTTP
- Threads
 - AsyncTask
 - Loaders

JSON

```
Example (me)
{
"name":"Dimitris"
"course":{"Udacity":"ABND"}
}
```

Android - JSON Parser

- Array([)
- Objects({)
- Key
- Value[Tutorials Point, 2018]

Architecture

- newsfeed_activity.xml
- NewsfeedActivity.java
- QueryUtils.java
- Newsfeed.java
- newsfeed_list_item.xml
- NewsfeedAdapter.java

Request-Response

- Form HTTP request
- Send request
- Receive response
- Update UI

makeHttpRequest

HttpURLConnection

urlConnection = (HttpURLConnection) url.openConnection();

connect

urlConnection.connect();

getResponseCode

if (urlConnection.getResponseCode() == 200)

InputStream

inputStream = urlConnection.getInputStream();

AsyncTask

- Android UI Main Thread
- Concurrent Processing in Android[Programmer Guru, 2018]

Loader in foreground

LoaderManager

 $loader Manager. in it Loader (NEWSFEED_LOADER_ID, \ null, \ this);$

LoaderManager.LoaderCallbacks

public class NewsfeedActivity extends AppCompatActivity implements LoaderCallbacks<List<Newsfeed>>

onCreateLoader()

return new NewsfeedLoader(this, USGS_REQUEST_URL);

onLoadFinished()

mAdapter.addAll(newsfeeds);

onLoaderReset()

mAdapter.clear();

Loader in background

AsyncTaskLoader

public class NewsfeedLoader extends
AsyncTaskLoader<List<Newsfeed>>

loadInBackground()

List < News feed > news feeds = Query Utils. fetch News feed Data (mUrl);

References



Tutorials Point (2018)

Android - JSON Parser

http://www.tutorialspoint.com/android/



Programmer Guru (2018)

What is AsyncTask in Android?

http:

//programmerguru.com/android-tutorial/what-is-asynctask-in-android/



Dimitrios Tosidis (2018)

https://github.com/dtosidis



Google Developers (2018)

https://developer.android.com

Questions?