

HTTP AUTHENTICATION

using Retrofit 2

Important Announcements

- All Thursday classes will be held at **St. Oberholz**
(Rosenthaler Str. 72A, 10119, Berlin)
- Free Android course in udacity.com – for EU residents.

So far ...

- Questions???

Retrofit 2

- Questions ??
- HTTP Basic Authentication
 - it passes the access credentials in every HTTP request Authorization header.
- Intercept HTTP request and add the access credentials.
- need to set this in the OkHttpClient for Retrofit 2.

Networking best practices

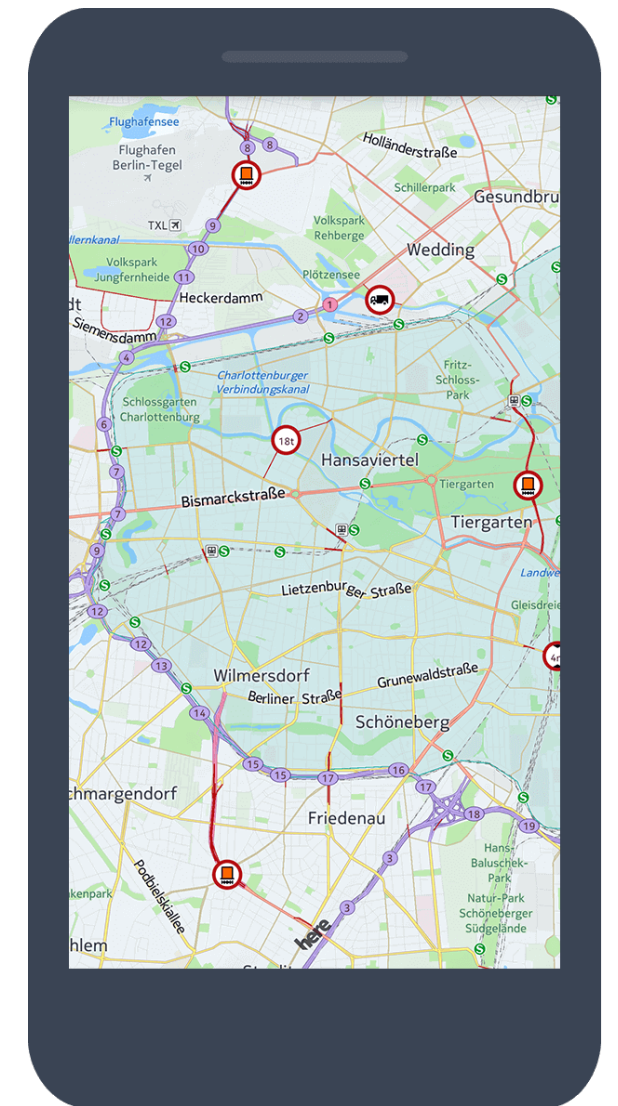
- Networking code cannot reside in an Activity/Fragment
 - due to its sudden lifecycle changes
- Networking code can reside in : -
 - Retained Fragment – will use this approach for the project.
 - Service – suitable for long network operations (e.g. DropBox).
 - Application level Singleton

Fragment revision from maps...

- Fragments are added to an Activity using the FragmentManager (*getFragmentManager()*) instance.
- Please add an *id* or *String tag* to identify the fragment later.
- Example: -
 - `getSupportFragmentManager().beginTransaction().add(retainFragment, NETWORK_FRAGMENT_TAG).commit();`

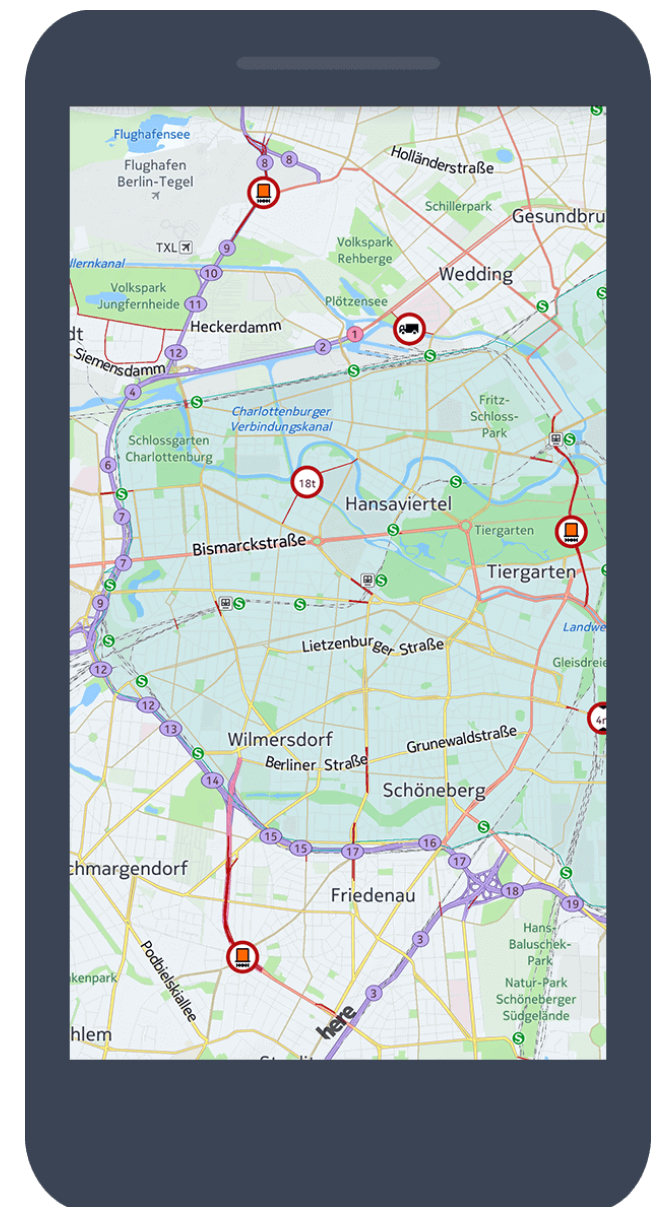
Live Coding

- Upgrade the Map app with fetching free WiFi venues from the ReDI API using HTTP Basic auth.



Task

- Please extend the app with the HTTP POST method, to create a new venue.



Questions ???

Sources

- <https://futurestud.io/tutorials/retrofit-getting-started-and-android-client>
- <https://square.github.io/retrofit/>
- <http://rexstjohn.com/using-genymotion-charles-proxy/>
- <https://www.charlesproxy.com/>