

# LAB 4

## 1. Football competitions (with areas)

Modify the previous football tournament app to first show all available areas of the competitions (you can get them from this api: <http://api.football-data.org/v2/areas>)

When user clicks one of the areas app will open other activity which will show a list of available competitions from that selected area. This API was already used in the previous assignment: <http://api.football-data.org/v2/competitions?areas=2072>

You should have two activities (one for areas and one for competitions) in your application.

Please follow good object oriented principles in your app design (architecture).

## 2. WebSocket based chat

Create a chat application with web socket.

There are several libraries which you could use, I chose this one:

<https://github.com/TooTallNate/Java-WebSocket>

Client example (please note that this example has been made for standard (desktop) java. You need to modify it a bit to make it work on Android.

<https://github.com/TooTallNate/Java-WebSocket/wiki#client-example>

The chat server waits for your messages in this address:

**`ws://obscure-waters-98157.herokuapp.com`**

