

# Week 8 Workshop Activity

## Web Services

### 1. Accessing a web service:

This exercise is based on the explanations and code from this week's lecture (Lecture 8).

The code is posted on Canvas – Lecture8\_CodeSample.

The code uses a web service - <http://www.geonames.org/export/ws-overview.html> to get the weather information for a location specified by latitude and longitude, where the user enters lat and long.

**First: create a username and password here: <http://www.geonames.org/login>. Then you can use your own username instead of user=demo.**

- a) Change the TextView that displays the name of the location (e.g. the city and country). The name of the location should be determined using a web service such as <http://www.geonames.org/export/web-services.html#findNearbyPlaceName>. Example:  
<http://api.geonames.org/findNearbyPlaceNameJSON?lat=47.3&lng=9&username=demo>
- b) Add code and UI components that will allow the user to enter a postal code. The location should be displayed for this postal code, and also the weather and lat and long should be updated accordingly.  
Web service for postal code lookup: <http://www.geonames.org/export/web-services.html-postalCodeLookupJSON>  
Example: <http://api.geonames.org/postalCodeLookupJSON?postalcode=V4N&username=demo>

### 2. Project work

Milestone 2 is due soon. Continue working on the code for your project.