school of computing, informatics, & decision systems engineering

CSE 394- Spring 2016
In-Class: Lab 6
50 Points (Due: Tuesday 22nd 11:59 pm)

Objectives: Further enhance the knowledge about using Calling web services, JSON data processing

Pre-requisite: create an account in http://www.geonames.org/export/ws-overview.html to use their free web service.

Lab: During this lab, you will be developing an app that displays the earthquake information for a given city and surrounding area

Essentially, this lab can be done in two steps:

Step1: Get longitude and latitude of a given city/address
First your application should ask the address/city name where you need to get earthquake information. During week 7, we have discussed how to use geo-coding to get longitude and latitude of a given city/address.

Step 2: Use the web service 8 (earthquake JSON) from the flowing list to get earthquake information around the city
http://www.geonames.org/export/ws-overview.html

Here is a sample Web Service Call to get earthquake information around phoenix, AZ

http://api.geonames.org/earthquakesJSON?north=43.45&south=23.45&east=102.06&west=122.06&username=demo

Lon and Lat of Phoenix is 33.45 and 112.06 respectively

You can use the lon/lat value from step 1 above as the center and then use +/- 10 to get north/south/east/west values for the web service call.

Week 9 notes has a web service call example and processing JSON data

Design: You are free to design your UI the best way to implement about application.

Submission Instructions

Submit online to the blackboard using the link given under Lab 6