BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Assignment #2

School of Computing and Academic Studies   COMP3717

Programs: CST   *Due: Sun Oct 15, 2017 at 11:59 pm*

ASSIGNMENT DETAILS

The assignment involves development of an app that provides information about the countries of the world. You will use the JSON endpoints at https://restcountries.eu/ for data.

Here is a list of the data items that you can obtain from the countries endpoint:

Field		Example
name		Italy
topLevelDomain	Array	.it
alpha2Code		IT
alpha3Code		ITA
callingCodes	Array	["39"]
capital		Rome
altSpellings	Array	["IT","Italian Republic","Repubblica italiana"]
region		Europe
subregion		Southern Europe
population		60665551
latlng	Array	[42.83333333, 12.83333333]
demonym		Italian
area		301336
gini		36
timezones	Array	["UTC+01:00"]
borders	Array	["AUT","FRA","SMR","SVN", "CHE","VAT"]
nativeName		Italia
numericCode		380
currencies	Array	[{"code": "EUR","name": "Euro","symbol": "€" }]
languages	Array	[{"iso639_1": "it","iso639_2": "ita","name": "Italian", "nativeName": "Italiano" }]
translations	Array	{"de": "Italien","es": "Italia","fr": "Italie","ja": "イ タ リ ア", "it": "Italia","br": "Itália", "pt": "Itália", "nl": "Italië","hr": "Italija","fa": "ایتالیا" }
flag		https://restcountries.eu/data/ita.svg
regionalBlocs	Array	[{"acronym": "EU","name": "European Union","otherAcronyms": [],"otherNames": []}]
cioc		ITA

The purpose of this assignment is for you to familiarize yourself with Listeners, Adapters, ListView controls, AsyncTask objects and reading JSON objects.

- Assignments must be done in teams of two students assigned by your lab instructor.
- The assignment consists of three screens. On the first screen the user sees the continents of the world.
- When the user taps on a continent the second screen appears displaying countries that belong to that continent.
- When the user taps on a country, the third screen shows the following details about a chosen country:
  - name
  - capital
  - region
  - population
  - area
  - borders
  - flag
- The image of the flag is to be displayed on the country details page.
- Your application must cater to portrait and landscape. This also involves proper scaling to screen size.
- If there are any technical details missing, try to make realistic assumptions
- Use Android Resource files everywhere possible and avoid using literal strings/dimensions in the application
- Make sure you set the minimum SDK to be 19
- All click events are to be handled by listeners
- You are encouraged to go beyond what has been asked for, in terms of functionality and app design, but at minimum you should satisfy the basic features mentioned
- When you create the Android Application in Android Studio follow the exact instructions shown below with regards to naming the Application and Package. This is required to enable the marker to identify whose submission it is and keep the number of assignment apps installed on the emulator to a small number.
  - Application name: LastName1_ LastName2
  - Company Domain: ass2.bcit.ca

- The names of students in the team should display on the main activity
- This assignment will be tested with the Nexus 6 emulator.

SUBMISSION:

- Put the following information into a readme.txt file located in the root of your application:
  - your names, BCIT ID numbers and email addresses. This is necessary in case the marker wishes to urgently contact you.
  - what you have not completed
  - any major challenges
  - any special instructions for testing your app
- Also, put your. apk file in the root of your application.
- Look into the .gitignore and delete the files that are not needed before submitting the source code for your assignment. This should be done after closing Android Studio.
- Assignments must be zipped (.zip extension) and uploaded to the drop-box folder for the Assignment 1 in D2L. Do not use any compression utility other than plain zip.
- Assignment Zip files should be named **LastName1_ LastName2.zip** (Just zip up the Android Studio project for your app and this should follow the naming convention if you have followed the instructions)
- Your ZIP file will include all directories and files comprising your entire android app.
- There will only be one submission per team
- If you make more than one submission, then you must version the submission filename by adding _v1, _v2, etc.

Name 1: _____   Set _____

Name 2: _____

Name 3: _____

Task	Max Mark	Actual Mark
Screen 1 displays continents	5	
Screen 2 displays countries	5	
Screen 3 displays country details	10	
Other • cater to portrait and landscape orientations • click events are to be handled by listeners • student names on the main screen • package name as prescribed • app & submission names as prescribed • Followed instructions • Design and coding conventions • readme.txt & .apk in the root of the app	10	
TOTAL:	**30**	