Seneca

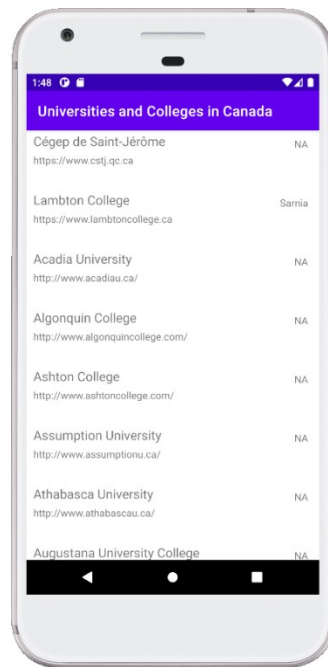| Academic Year	**2024**		
Semester	☐ Fall	☐ Winter	☒ Summer
Course Code - Name	MAP524		
Instructor	Dr. Razi Iqbal		
Assessment	Assignment 4A		
Deadline	Wednesday, November 20, 2024		

Assignment 4A

The main purpose of this assignment is to test your knowledge of basic Activities, Recycler View, JSON requests and RequestQuery in Android Development. This assignment assumes that you have already setup your environment.

Instructions:

- This assignment is 10% of your total marks in this course.
- You are required to zip your project folder and submit it on Blackboard under the Assignment drop box.
- Submissions through emails will not be accepted.
- Students having exactly similar code will get a straight 0.
- The deadline for submission of this assignment is midnight Wednesday, November 20, 2024.

Question

You are required to develop an Android app which fetches the data from a JSON API (http://universities.hipolabs.com/search?country=Canada). This API provides the list of universities and colleges in Canada along with other related details. Your task is to fetch Name, Province and Web Page Address of the universities and colleges in Canada from this API. The expected output would look something like the screenshot below. Do not worry if it is not exactly similar as the API is updated frequently.

Please note that followings:
- You are required to fetch all the details from the API using Volley in Android.
- Fetched details should have at least Name, Province and Web Page Address of the universities and colleges in Canada from this API.
- You are required to use Recycler View in Android to show all the details. Make sure to follow all the practices we used to create a recycler view, e.g., creating an adapter, a row layout xml file.
- Create an entity class "Uni" to pass the data to Recycler View as an object of the entity class.
- Some of the entries in the API have several web pages for each entry. You are required to show only the first web page address as a sub title in the Recycler View as shown in the screenshot above.
- Some of the entries in the API do not have a province value and would end up returning a null. Make sure if the value is null, you replace it with 'NA' when placing in the recycler view.
- There might be cases where you end up getting some exceptions or no data is shown. Make sure to search the Internet for solutions.