Faculty of Engineering and Technology

Computer Science Department

Comp438 – Mobile Application Development

Course Project

This is a group work; each group should consist of 4-5 members only. You are asked to implement a complete and functional Android application in the following domain:

Mobile app for Birzeit University Students:

A complete and functional mobile app that can be beneficial for Birzeit Students. You can think of any idea for the app that can help make students life during their study easier and more productive. It is up to you to choose which ever the idea you like the most.

Required Specifications

Your app should apply the following Android features:

1. Should have a variety of layouts, such as Linear, constraint, and Relative layouts.
2. Should apply **Recycler Views** were possible.
3. Should apply **ListViews**.
4. Should have a large variety of UI Views, such as dynamic Spinners, buttons, TextViews, EditText, Switches, ScrolViews, Date and Time Pickers, Dialogues, etc.
5. Should apply threads whenever possible to ensure app responsiveness.
6. Should take advantage of local storage using shared prefrences were possible.
7. Correct **Lifecycle** management.
8. Correct change of orientation management.
9. Centralized styling using **styles.xml**
10. Centralized strings for UI using **strings.xml**
11. Major part of your app should be reading/writing data to a backend using either:

        a.   MySQL Database through Python Flask using Volley.

        b.   or, Firebase.

12. Each group member should have his/her own work in the project. This means that every member should have at least 3-4 fully functional activities which can contain listview, recycler view, etc

13. **If any similarity in work is found, students will be directed to Disciplinary Committee (لجنة تأديبية)**

14. After you finish you project, you should upload it to **GitHub** and **send the URL to Ritaj**.

15. Grading of the project will be done by project discussion.