

**Faculty of Engineering and Technology**

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| **Computer Science Department** |

Comp4310 – Mobile Software Development

Course Project

This is a group work**;** each group should consist of 3-4 members only. You are asked to implement a complete and functional Android application.

A complete and functional School System for the students. In this app, you have Students and registrars, and teachers users. The minimum features are:

Registrars can add new students, add subjects and build students and teachers schedules.

Teachers can view their schedule, publish marks for exams, send assignments.

Students can view their schedule, view their marks, and submit assignments.

## Technical Specifications

Your app should apply the following Android features:

1. The app shall be complete and functional.
2. The app shall be comprehensive, beneficial, and not trivial.
3. You need to add more features than mentioned above.
4. Each member should be responsible for developing 3-4 activities.
5. Should have a variety of layouts, such as Linear, constraint, and Relative layouts.
6. Should apply **Recycler Views** were possible.
7. Should apply **ListViews**.
8. Should have a large variety of UI Views, such as dynamic Spinners, buttons, TextViews, EditText, Switches, ScrolViews, Date and Time Pickers, Dialogues, etc.
9. Should apply threads whenever possible to ensure app responsiveness.
10. Should take advantage of local storage using shared preferences were possible.
11. Correct **Lifecycle** management.
12. Correct change of orientation management.
13. Centralized styling using **styles.xml**
14. Centralized strings for UI using **strings.xml**
15. Major part of your app should be reading/writing data to MySQL Database through REST Php services, using Volley.
16. You are allowed to partially use Firebase, but php web services and MySQL DB is a must.
17. Apply correct UI/UX design guidelines.
18. Each group member should have his/her own work in the project clearly identified.
19. **If any similarity in work is found, students will be directed to Disciplinary Committee (لجنة تأديبية**)