# ICT376 Mobile Applications Development, Semester 2, 2018 Assignment/Project (worth 35%)

## Due[1]: Friday 2nd of November (Week 14), 11:55PM (Perth Time)

**Murdoch Internal and External students are required to submit a copy into LMS in the Assignment/Project submission area.**
- Only one team member needs to submit for the group.
- Once marking is completed, feedback will be uploaded to LMS and / or emailed to students if necessary.

**What do you need to submit?**

Group submission
- Group Declaration Sheet -  each student in the group should write down her/his overall contribution to the project and well as the percentage of her/his contribution. The form should be signed by all the group members. A template is provided (GroupDeclarationSheet.doc)
- Individual accounting – this is an inventory of all artifacts created as part of the project. It should also list all work done during the course of the project and the name of the group member who did it. A template is provided (Individual accounting.xls)
- Documentation of the project – an example of documentation is included (ExampleDocumentation.pdf)
- The program source code of the project that compiles under AndroidStudio

Individual submission
- Self and Peer Evaluation form: each student is required to submit this form. In this form, the assesses her/himself as well has her / his peers in the group. A template of the form is provided (SelfAndPeerAssessment.doc)**.**

**How to submit**

zip up the entire folder. Make sure that you have included all needed files. Do not include temporary files or files not relevant to the assignment.

For individual submission:
- Name the zip file with the unit code, Assignment number, your name, student number: ICT376_Asg2_JoBlogs_12345678.zip

For group submission:
- Only one member of the group submits on the behalf of the group.
- Name the zip file with the unit code, Assignment number, surnames of the team members, and team number. So, if the surnames are Bent, Lent and Dent, belonging to Team 3, the zip file name should be: ICT376_Asg2_Bent_Lent_Dent_Team_3.zip

Textual submissions should be type-written. External documentation can only be in the following formats:  PDF  (.pdf)

If required, you must demonstrate (in person) the capability of your program. If you are asked to do this, you will need to arrange for it to be demonstrated. The project will not be marked without this demonstration taking place.

Late submissions will incur up to 10% penalty for each day's delay unless a prior extension (due to accident, illness, etc) is obtained (via email) – see study guide. Please do not submit late. Talk (or email for externals) to your tutor and unit coordinator first during class when you have to demonstrate progress on the project if you are encountering problems.

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[1] No change from the date/time specified in unit guide

**Project Topic**

Self-selected project (written entirely for Android mobile application) approved by your tutor. Students work in groups of up to 4 people. Depiction of harm or injury to any human or animal is not permitted. You need to also show the storyboard(s) for the project.

- Your project must be approved by your tutor.
- Minimum requirements of the project is described below (see section Marking guide).
- You cannot reuse work from other units in this unit.
- When working in groups, accounting for individual work must be done. In particular, you need to keep an inventory of your individual work. This includes what media you have created, what coding you have done. Accounting for coding needs to include the following:

| File name | Function name | Lines of code | Comment lines | Purpose[2] of function | Used/called by filename:functionName |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
|  |  |  |  |  |  |

The actual code must show comments relating to purpose of the code, authorship and modification times.

Working as a group: The table above is provided in a spreadsheet (*Individual accounting.xls*). There will be a separate declaration sheet (*GroupDeclarationSheet.rtf*) which you sign showing how percentage of the work was done by you.

For group work, there is a separate "Self and peer assessment form" (*SelfAndPeerAssesment.rtf*) that you should fill in and submit. This is done individually.

**Marking guide:**

To be eligible for a P grade (minimum requirements), the project must
- Be an approved project implemented in Android Studio for Android mobile devices.
- Have a user interface
- Use Fragments
- Have Interactivity, i.e. user can interact with the application via the user interface
- Have a database
- Model at least one feature specific to mobile devices. This includes but not limited to locations features, maps, cameras, sensors, and so on.
- Implement and document a testing plan.
- Written documentation for both the design and the implementation is needed.
- Create a promotional video highlighting the interesting aspects of your program.
- Internal students must present the project (and show the application running) in the last lab session (Week 14). Each group will have 15mins presentation + 5mins questions.

You may want to exceed the minimum criteria for higher grades.

Keep things small enough so that you can "polish" it and everything you submit is working well. If you are unsure, discuss your ideas with your tutor and/or unit coordinator.

Do not add new features in the last week of semester.

Once the minimum requirements have been met, the project will be marked using the following marks breakdown:

| Description | Marks |
|---|---|
| Overall appeal and polish | 15 |
| Level of graphics detail | 20 |
| Usability of the interface | 15 |
| Features specific to mobile apps | 15 |
| Coding | 20 |
| Documentation + presentation | 15 |
| Total | 100 |

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[2] Taken from the comments in the code.

You must provide a version, which will compile on Android Studio.

The version you provide, must compile and run as provided. If any tinkering to cater for missing/misplaced files is needed to get it to build, a 25% penalty will be applied. The penalty should really be higher but I have decided not to apply a larger penalty. Consider what it means when you, as a software developer deliver a solution to your client and when the client tries to run your program, it would not run because something is missing. Telling the client that the program ran fine on your computer is probably not going to make the client happy.

For group work, there is a 25% penalty for not providing the accounting for individual work or not providing the completed and signed group declaration sheet.

**Notes:**
- Higher grades are obtained with more detailed modelling (object behaviour, visuals – graphics, well written and tested code) and polished product.

**Check List[3]:**
- Ask if unsure of anything.
- Do not get too ambitions. Keep the project small enough. Discuss with your tutor.
- Project meets the minimum criteria and is submitted as indicated at the top.
- Breakdown (for group work) sheet is completed. (*GroupDeclarationSheet.rtf*)
- Group work: Individual accounting sheet is completed can be submitted with the rest of the project. (*Individual accounting.xls*)
- Self and Peer assessment sheet is completed and submitted individually. (*SelfAndPeerAssesment.rtf*)
- Resubmit an updated version of the team charter. A version was submitted in LMS during the semester.

**Plagiarism and misconduct**

You will be only marked on the work that you have created yourself. This means that you have designed and implemented the solution yourself.

**If you use any other pieces of codes from the Internet or any other sources, make sure you cite it appropriately in your documentation.**

If unsure
- ask your tutor, lecturer or unit coordinator. There is no penalty for asking – it is appreciated. Academic staff are here to assist and guide you.
- Cite appropriately whatever you take from other sources.

**Frequently Asked Questions**

The most important thing you can do if you are unsure is to ask. There are no penalties for asking, only rewards at the end.

**Q**: I was wondering whether each member of the group has to submit a .zip file with the complete assignment, the only difference being the self and peer assessment.

A: No, only one person submits the zip and all the documents except the SelfAndPeerAssesment file is submitted individually in each person's area in LMS.

**Q**: Also would like to confirm that late penalties will not apply until after the weekend.

A: I don't count weekends and public holidays, so penalties wouldn't apply until after the weekend. So submitting on Monday is one day late.

**Q:** Do I need to implement an Android Project or an iOS project?

A: Since the big part of the unit is about Android, you need to implement an Android project. This will help you practice very well what we see in the class, which in turn is beneficial for the exam.

**Q**: Do I need to implement a cross platform app?

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[3] A number of these sheets are used for group work.

A: No. The app should be written entirely using Android.