RMIT UNIVERSITY

Programming Project 1
COSC 2408
Assignment 2

	Assessment Type	This is a group assignment. You need to have formed your canvas group before submitting this assignment. Submit online via Canvas → Assignments → Assignment 1. Marks awarded for meeting requirements as closely as possible. Clarifications/updates may be made via announcements/relevant discussion forums.
	Due Date	End of week 12, Monday 19 October 2020, 9:00am
	Marks	45

1 Overview

You are required to submit a report on project outcomes (a pdf file) and the code for your software product (a zip file).

2 Learning Outcomes

This assessment relates to the following learning outcomes of the course.

- Apply knowledge of the key principles of project management to a significant IT project, choose a suitable development methodology, design and deliver industry standard software and documentation.
- Analyse and solve a problem requiring an IT solution, propose and evaluate alternative approaches by conducting experiments, collecting data, identifying and evaluating the appropriate development tools and frameworks.
- Work collaboratively and effectively in a team environment to plan and implement project requirements, participating as a team member and/or team leader and demonstrating understanding of the team dynamic that is critical to your project's success.
- Negotiate the project deliverables and milestones and assume responsibility for a successful outcome.
- Communicate with clients in a professional manner, delivering presentations and writing technical research reports using the appropriate language of the field.

3 Guidelines for the project report and delivered product

The exact structure and content of the report will depend on the type of project and any specific requirements of the client/supervisor.

Who is the reader? In writing the report, keep in mind that the intended audience is:

- Your supervisor and client.
- An external examiner who is not familiar with the project.

3.1 Software Development Projects

You must submit two files, a report as pdf and the actual product as a zip file. Here are the details:

3.1.1 The Report

The file name should be `groupname.pdf` and it should contain the following sections:

1. Project Vision/Charter (including the risk register and the issues register)
2. Development Guide (if required)
3. Test management document including test planning and test results. Bugs and issues that are left in final release must be matched with `release.txt` on Github.
4. Technical Solution/ System Design Document

3.1.2 Delivered Product

The file name should be `groupname-product.zip` and it should contain:

1. A readme file (`readme.txt`) that contains any release notes, installation and running instructions (you can refer to the to development guide document), any change log, the Github URL of the project, the URL of the deployed project on the cloud and any credential information for the deploying and running the product.
2. The final source code file (`groupname-source.zip`) which must include the all the source code, images, sounds, movies, release notes). Do not include any compiled files, there will be a deduction for including complied files.
3. Data management information (`data.txt`) which describes the exact type of DB, the version and the DB connection address if it is on the cloud with authorisation information and any other necessary information
4. A Demo pdf (`groupname-demo.pdf`) that contains screenshots of the working app for different scenarios that cover all the main functions of the application. You can show validation cases through different scenarios and their screenshots, if there are any.

3.2 Research Project/Data Analysis Project

You must submit two files, the report as pdf and any programs or scripts as a zip file. Here are the details:

3.2.1 The Report

The file name should be `groupname.pdf`. Here is a suggested structure for the report.

1. Introduction. This section should describe the data and the tasks attempted to a person who is not familiar with this data.
2. A series of sections with this structure:
   (a) Question/Hypothesis. For example *Are there any differences in the ways that the different age groups used the learning management system?*
   (b) Methodology. Describe the data file used and any processing used to get the data file for analysis. For example, *We joined* `studentInfo.csv` *with* `studentVle.csv` *and cut out* `id_student,age_band,sum_click` *and calculated the total* `sum_click` *for each student id. We produced one file for each of the two major age bands. (Script xxx in the zip file).*
   (c) Data generated by the investigation. For example, *Frequency and histogram data for each age band, which is shown in these graphs...*
   (d) Conclusions. For example, *By visual inspection, are the frequency or histogram plots the same for each age group? Or how are they different?*
3. Findings and Conclusions. List and describe any interesting facts, patterns or relationships that you found. *For example, We found that the usage patterns of the two large age groups were very different. In the younger age group .... while in the older age group ....*

3.2.2 The zip file.

The file name should be `groupname-code.zip` and it should contain any code or scripts used in the analysis. It should be clear in the zip file which programs/scripts were used for which questions in the report.

4 Submission

Submit one pdf file and one zip file.

After the due date, you will have 5 business days to submit your assignment as a late submission. Late submissions will incur a penalty of 10% per day. After these five days, Canvas will be closed and you will lose ALL the assignment marks.

Assessment declaration:

When you submit work electronically, you agree to the assessment declaration - https://www.rmit.edu.au/students/student-essentials/assessment-and-exams/assessment/assessment-declaration

5 Academic integrity and plagiarism (standard warning)

Academic integrity is about honest presentation of your academic work. It means acknowledging the work of others while developing your own insights, knowledge and ideas. You should take extreme care that you have:

- Acknowledged words, data, diagrams, models, frameworks and/or ideas of others you have quoted (i.e. directly copied), summarised, paraphrased, discussed or mentioned in your assessment through the appropriate referencing methods
- Provided a reference list of the publication details so your reader can locate the source if necessary. This includes material taken from Internet sites. If you do not acknowledge the sources of your material, you may be accused of plagiarism because you have passed off the work and ideas of another person without appropriate referencing, as if they were your own.

RMIT University treats plagiarism as a very serious offence constituting misconduct. Plagiarism covers a variety of inappropriate behaviours, including:

- Failure to properly document a source
- Copyright material from the internet or databases
- Collusion between students

For further information on our policies and procedures, please refer to the following: https://www.rmit.edu.au/students/student-essentials/rights-and-responsibilities/academic-integrity.

6 Marking guidelines

Marks will be based on problem solving, team work, communication, project management and professionalism.