

Professional Computing Practice (Semester 2, 2017)

Assignment 2 Group (25%), due on Sunday October 8, 11.59pm

This assignment has three choices, so you can select Option A, Option B or Option C.

This assignment can be undertaken by a team of 3 or 4 members within the same Tutorial class. The assignment consists of a written report (worth 20%), and a poster presentation (worth 5%).

Option A: Hackathon

The Victorian State Government released data for a project designed to keep cars out of the city centre. Their aim was to only allow trams and trains within a 20km radius of the GPO. This assignment is for your group to organise/project manage a Hackathon, to encourage excellent programmers to build applications for the Victorian Government.

Here is some information the Victorian Government can provide: rich data at [data.vic.gov.au](http://www.data.vic.gov.au) <<http://www.data.vic.gov.au>>, and the City of Melbourne also has rich data #MELBDATA <<https://data.melbourne.vic.gov.au/>>. NICTA provided access to their National Map <<http://nationalmap.nicta.com.au/>> loaded with data after a recent Govhack. <<http://www.govhack.org/>> and more data may be available and provided. The transport hackathon was calling for creative minds to help improve how transport works - alleviating congestion, improving tram safety, fixing last mile freight in the city, apps to help citizens easily use the government data already available, or even letting them know what data should be collected and isn't.

The assignment requires you to write a report explaining:

- a) Information about the Hackathon, including when and where you have decided this event will happen
- b) How you will advertise this Hackathon event and invite programmers to compete;
- c) What challenges it will pose for you on the day and how you will decide the winning entry;
- d) A program or agenda for the day;
- e) Summary of how such an event should run.

Option B: IT Professionals in 2017

What does it mean to be an IT professional, and what kind of things does an IT professional spend their day doing?

The aim is to design a survey online, possibly using Qualtrics, and send it to any IT professionals you know. Then select one of the participants to interview. Finally this project requires you to write a report explaining:

- a) The IT Professional Survey

- b) The responses to the survey, presented as tables, graphs or discussion
- c) The questions asked in the interview
- d) The responses given by the IT professional
- e) Summary of the key activities of this IT professional and a description of the job. Explain what the entry requirements are, the pay range and what their expectations are.

Option C: Cyber Security

Most businesses and professional organisations have policies.

For instance, RMIT has many policies, see

[<http://www.rmit.edu.au/policies/a-z>]

In particular consider the policy on Social Media

[<http://www.rmit.edu.au/browse;ID=7dm2i15ukmpl>],

the policy on Information Technology Information Security Policy

[<http://www.rmit.edu.au/browse;ID=cm37v7zk7cpw>]

and the information about Academic Integrity

[<http://www.rmit.edu.au/browse;ID=0l18ekl1au1w>]

which shows that there are a number of policies which cover this: the RMIT Code of Conduct, RMIT Assessment Policies and the Academic Integrity and Plagiarism Procedure:

[<http://www.rmit.edu.au/browse;ID=sg4yfqzod48g1>].

This assignment is to write a two page report answering the following questions:

Should every organisation have a cyber security policy? If so, what should it include? If not, why not?

In your report you are required to include:

- a) Definitions of Cyber Security and any other technical terms which would be required for the policy
- b) Who should this policy apply to
- c) Why is this important for organisations to consider?
- d) What are the advantages and what might be the disadvantages of having a clearly articulated policy?
- e) What should be in the policy

Submission:

The written report is to be professionally structured, with a Title, an Introduction and Conclusion, some Background information, and paragraphs containing your thoughts and explanations. There must be a Bibliography at the end containing all the references you have read for the report, and there may be an Appendix containing any data you have collected.

The report is to be no less than one page, but no more than two pages of text no larger than 12 point, and no smaller than 8pt. The Bibliography and data in the Appendix do not count for the number of pages.

The language of your report is to address the five points outlined in each of the Options A, B and C.

For Option A, the language of your report should demonstrate an understanding of the underlying dilemma facing the Victorian Government with the release and hosting of their data. Your Hackathon does not have to be around transport congestion, but whatever the data is about, your report needs to identify the stakeholders, the businesses or customers, and the general public, who will benefit, as well as the participants who will compete in the Hackathon, and how they will be project managed.

For Option B, the language of your report should demonstrate that you understand what employers are expecting of an IT Professional in such a position, as well as what the IT Professional themselves understands their job to be.

For Option C, the language of your policy report is to show that you have read and understood the RMIT policies, reflected and carefully considered what should be included in such a policy. It must not be judgemental but must be clear in direction.

The presentation is to be a poster. The poster will be displayed in the last week of semester.

"You must submit a single .zip document via **Blackboard link (Go to Assignments-> Assignments-> Assignment 2)**. Your name, student number and names of other people in your team clearly listed at the beginning on the first page which does not count towards the length of the report. Inside the zipped file should be the report saved as a .pdf, and the poster saved as a separate .pdf. **Files in any formats other than .zip will not be read.**

Late Submission and Penalty: Assignment 2 is due before Sunday, October 8 at 11.59pm

- 1 A penalty of 10% per day of the total marks will apply for each day late, including both weekend and weekdays.
- 2 After five days, you will receive a zero for the whole assignment.
- 3 Full marking may take up to two weeks.

Marks (Assignment 2):

Report

Explanation of the issue (title, introduction)	2 marks
How others have considered or solved this in the past (background)	2 marks
What should be considered and put into Victorian Government policy, or a job advertising for such a position, if applicable?	4 marks
Where did the data (information) come from (data, videos, books, links) and what supports the discussion?	4 marks
Good points (identified by marker):	3 marks
Weaknesses (identified by marker):	3 marks
Professional layout and tone of the report	2 marks

Presentation

Poster	5 marks
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Do's and Don't's:

DOs <input checked="" type="checkbox"/>	DON'Ts <input checked="" type="checkbox"/>
1 Sit down and brainstorm with the other members of your group	1 Communicate with your staff via non-RMIT emails
2 Read online about the subject matter or textbooks for that matter	2 Post assignment or any specification on a social media website, technical forum- both RMIT and non-RMIT or blog in order to get help
3 Discuss doubts politely and engage in fruitful and constructive discussion and posts on the discussion board	3 Post a part of your assignment solution on the discussion board
4 Email the doubts to the Lecturer, Head tutor and	4 Email/Skype/share on Social media websites, etc. assignment solution, parts of assignment solutions to/with friends
5 Attend head tutor's weekly consultations	5 Copy from friends
6 Think laterally	6 Post abusive, arrogant and disrespectful remarks on the discussion board.