

**CS6P05 Project**

*Your Project Title goes here…..*

**Project Report**

**Interim Submission**

Name: Add your Full name

ID Number: Your ID number

Date: Monday, 14 October 2019

First Supervisor: Add Your Supervisor’s Name Here

Second Supervisor: Add Your Second Marker’s Name Here

# Declaration

**Module:** CS6P05 **Deadline:** 3pm Monday 7th January 2019

**Module Leader:** Dr. Quan Dang **Student ID:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PLAGIARISM**

You are reminded that there exist regulations concerning plagiarism. Extracts from these regulations are printed below. Please sign below to say that you have read and understand these extracts:

Student signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: 14/10/19

This header sheet should be attached to the work you submit. No work will be accepted without it.

Extracts from University *Regulations* onCheating, Plagiarism and Collusion

Section 2.3: "The following broad types of offence can be identified and are provided as indicative examples…

1. Cheating: including taking unauthorised material into an examination; consulting unauthorised material outside the examination hall during the examination; obtaining an unseen examination paper in advance of the examination; copying from another examinee; using an unauthorised calculator during the examination or storing unauthorised material in the memory of a programmable calculator which is taken into the examination; copying coursework.
2. Falsifying data in experimental results.
3. Personation, where a substitute takes an examination or test on behalf of the candidate. Both candidate and substitute may be guilty of an offence under these Regulations.
4. Bribery or attempted bribery of a person thought to have some influence on the candidate's assessment.
5. Collusion to present joint work as the work solely of one individual.
6. Plagiarism, where the work or ideas of another are presented as the candidate's own.
7. Other conduct calculated to secure an advantage on assessment.

(viii) Assisting in any of the above.

Some notes on what this means for students:

1. Copying another student's work is an offence, whether from a copy on paper or from a computer file, and in whatever form the intellectual property being copied takes, including text, mathematical notation and computer programs.

2. Taking extracts from published sources *without attribution* is an offence. To quote ideas, sometimes using extracts, is generally to be encouraged. Quoting ideas is achieved by stating an author's argument and attributing it, perhaps by quoting, immediately in the text, his or her name and year of publication, e.g. "e = mc2 (Einstein 1905)". A *references* section at the end of your work should then list all such references in alphabetical order of authors' surnames. (There are variations on this referencing system which your tutors may prefer you to use.) If you wish to quote a paragraph or so from published work then indent the quotation on both left and right margins, using an italic font where practicable, and introduce the quotation with an attribution.

# Summary/Abstract

The Project Summary / Abstract is a brief description of what your project is about for the general audience in order for them to understand the essence of your work and its benefits, and to decide whether it is of their interest and worth further reading.

You may use your project proposal contents in this section but try to avoid any diagrams.

The length of this section should be around 300-400 words, to the maximum length of one A4 size.

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# Chapter 1: Introduction

This chapter should introduce what the project is about and the structure of the remainder of the report.

## 1.1 Project topic and rationale

Provide an overview of the project topic you are working on, explain the project’s motivation, why it is interesting, useful and what the problem in hands and challenges are.

## 1.2 Project Aims and Objectives

List the project aims and objectives, and a concise description where appropriate.

## 1.3 Methodology

Outline how you carried out the project (e.g., by using a Unified Process for system development).

## 1.4 The report structure

Give a description of how the remaining part of the report is organised and what each chapter is about.

# Chapter 2: Background Research

This chapter provides a critical review of related work, and products with an aim to demonstrate a specialist understanding of the project topic, including its fundamentals and the state-of-the-art, i.e. the current developments and potential areas (i.e. “gaps”) for future development.

The review of the related work provides the context for the project work within the chosen topical area and relate the project to what is already known and available. As a result, the scope of the project can be determined.

Further, the chapter also reviews and describes relevant theories, methods and software/tools, which will be used in the project. Alternative options are discussed, and choices are justified.

It is very important to note that your review should not be simply a description of what others have published in the form of a set of summaries, but should take the form of a critical discussion, showing insight and an awareness of differing arguments, theories and approaches. It should be a synthesis and analysis of the relevant and up to date published work, relating at all times to your own purpose and rationale.

This chapter includes the following main contents.

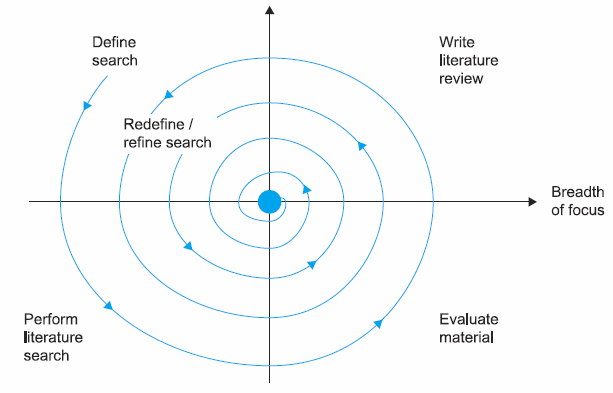
## 2.1 Literature review of related work

## 2.2 Critical evaluation of related products/solutions

## 2.3 The scope of the project

## 2.4 Review and justification of theories/models/development platforms/tools selected for use in the project

Below is an example of a figure with a reference, which will automatically be pickup by the Word generator of the List of Figures.



**Figure 1: Literature Review Process, Dawson (2015), p.92**

# Chapter 3: Requirements Analysis and Specification or Problem Analysis and Specification

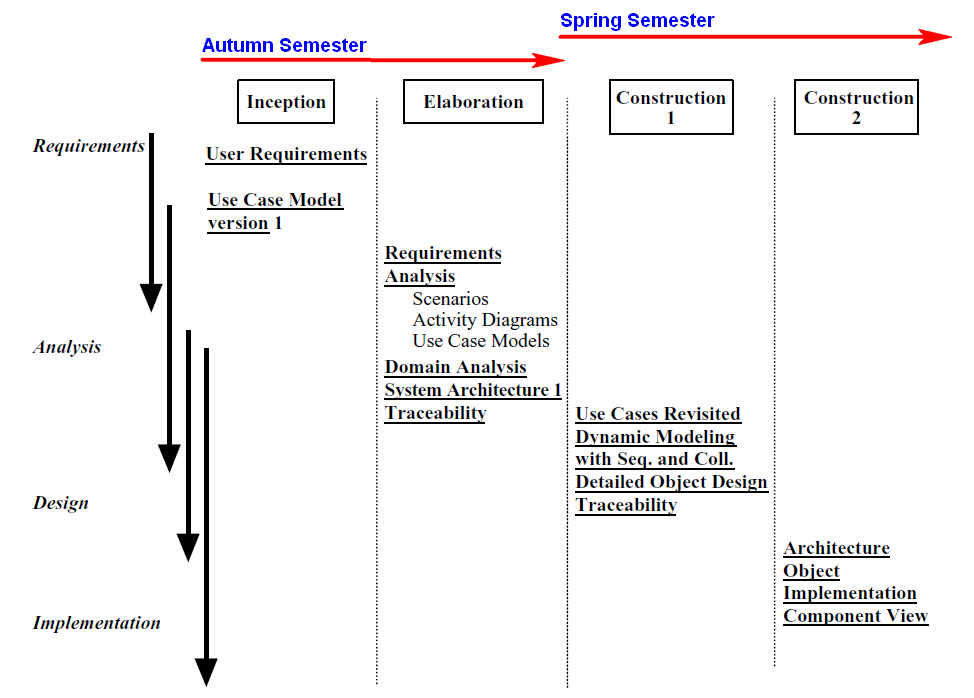
This chapter is eliciting **what** your system is required to do, not **how** it will do it.

If you develop a software, a structured approach should be used to determine the requirements of the system/ program or the investigation being conducted. There are several techniques particularly in the area of software design to assist in this process, and you are recommended to use a technique appropriate to your project, but which ensures that you fully analyse the system you are designing and fully understand its requirements.

This chapter should be concluded with a detailed and unambiguous specification of your **software** requirements (*functional* and *non-functional* requirements). Use cases technique is recommended for eliciting and representing the functional requirement.

**If your project is of an investigative type**, the result of the problem analysis should be a clear **problem statement** with a detailed problem description, research hypothesis, and **key research questions**.

Below is an example of a figure with a reference, which will automatically be pickup by the Word generator of the List of Figures.



**Figure 2: Planned Software Development Tasks based on the BRIDGE process, Jalloul (2012 ), p.51**

# Chapter 4: Software Design or Research Methodology Design

*(Approximately 50% of the “final” complete system/solution detailed design)*

The chapter outlines the software and/or research design that you have drafted from your work done in the Autumn semester.

It is crucial that you should have got very clear ideas and the details of what you are going to implement or investigate in the next stage of your project process.

The chapter’s contents and sections’ headings *may vary depending on the specifics of your project*.

|  |  |
| --- | --- |
| EITHER | OR |
| For a project of the **software development type**, the following sections must be included. | For a project of the **investigative** **type** the contents below can be used as the starting points**. Please discuss with your supervisor for further guidelines.**  *Recommended reading*: Section 5.5 **Methodology Chapter**, page 83 from *Breach M., 2008, Dissertation Writing for Engineers and Scientists.* |
| Software Design  4.1 User-Interface design  e.g. using mock-up screens  4.2 Database tables’ structure design  4.3 Main components of the software architecture | Research Methodology Design  4.1 Application of chosen theories/methods  4.2 Decision on what sample datasets are  4.3 Data analysis models  e.g. which statistical models, or neural network models etc.  4.4 How the results will be analysed |

# Chapter 5: Summary and Future work

## 5.1 Summary of the development to date

## 5.2 Any reflections and lessons learned

Reflection upon personal development, legal, social, ethical and professional issues (**LSEP**).

Provide a clear indication of measures that you are considering in order to ensure a successful completion of the project.

## 5.3 Remaining work

Details of the remaining work.

Strategy to complete them.

Briefly discuss any **risks** associated with your plan.

# Appendices

*Appendices are for including specific data sheets of a component of the project work that may not readily be available and its inclusion in this report is necessary, such as List of Data, Images, Program code listing, screen shots etc.*

*ONLY include them in the report if it is needed for the reader to understand the discussion in the report.*

## Appendix 1: Project Management

Please note this Appendix is not-optional!!!!

### The original project plan from the Proposal

Below is an example of a table with a reference, which will automatically be pickup by the Word generator of the List of Tables

**Table 1: The project WBS activities**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Activities** | **Estimate Duration** | **Activity Description** |
| 1 | Literature Search | 2 weeks | Search, skim-read and filter out 5-7 relevant authoritative published sources on the project topic. |
| 2 | Literature review | 3 weeks | Scan-read, critical review of the selected publications. |
| xxx | ~~~~ | ~~~~~~ | ~~~~~ |
| zzz | Finalise the report | 2 weeks | Finalise, spell-check, format the report and get it proof-read. |
|  | ***Total duration*** | ***27 weeks*** |  |

### 1.2 Review of your current progress

Ahead/On target/Behind the schedule

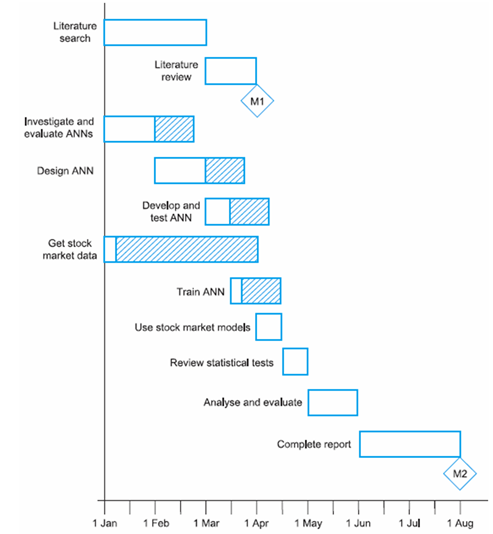
### 1.3 Any amendments to the original plan

#### 1.3.1 Remedial actions should be included if you’re behind the schedule

The student should look at how far they have got, and where they said they would be according to their project plan. Are they ahead of schedule, on target, or behind. If they are behind, they must produce a remedial action plan to enable them to get back on target and still bring the project in on time.

A revised project plan with a revised Gantt Chart should be provided.

Below is an example of a figure with a reference, which will automatically be pickup by the Word generator of the List of Figures.



**Figure 3: The revised project Gantt chart**

#### 1.3.2 Other useful amendments

# References

***Notes***

* *All references used should be referred to from within in the body text and listed here.*
* *Harvard style is recommended;*

Author’s Surname, Initials. (Year of publication). Title. Edition (if not the first). Place of publication: Publisher.

For example:-

Adair, J., 1988, Effective time management: How to save time and spend it wisely, London: Pan Books.

Dawson, C. (2015). Projects in Computing and Information Systems - A Student Guide, 3rd Edition. Harlow: Pearson Education Ltd.

Jalloul, G (2012). UML by Example. Cambridge: Cambridge University Press.

Fisher, R., Ury, W. and Patton, B. (1991) Getting to yes: Negotiating an agreement without giving in, 2nd edition, London: Century Business.

*Book with an editor*Danaher, P. (ed.) (1998). Beyond the ferris wheel, Rockhampton: CQU Press.

*Books with an anonymous or unknown author*The University Encyclopedia (1985). London: Roydon.

*Journal article*Muller, V. (1994). ‘Trapped in the body: Transsexualism, the law, sexual identity’, The Australian Feminist Law Journal, vol. 3, August, pp. 103-107.

*World Wide Web page*Young, C. (2001). English Heritage position statement on the Valletta Convention, [Online], Available: http://www.archaeol.freeuk.com/EHPostionStatement.htm [24 Aug 2001].

# Bibliography

***Note****: The items listed in this section are relevant publications you read and found useful but have not been cited or referred in the report’s body text.*

*Harvard style is recommended.*

Author’s Surname, Initials. (Year of publication). Title. Edition (if not the first). Place of publication: Publisher.

*Examples:*

Bennett, McRobb, Farmer. (2010) Object-Oriented systems analysis and design using UML, 4th edition. London: McGraw-Hill.

Breach, M. (2008). Dissertation Writing for Engineers and Scientists. Harlow: Pearson Education Ltd.

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Stallings, W. and Brown, L. (2018) Computer Security: Principles and Practice, Global Edition, 4/E. Harlow: Pearson Education.

Turban, E., Sharda, R., Delen, D., 2010, Decision Support and Business Intelligence Systems, 9th edition. Upper Saddle River, N.J: Pearson.

Welling L. and Thomson, L. (2017). PHP and MySQL Web Development, 5/E. Upper Saddle River, NJ: Addison-Wesley.