

Project Report Guidelines

Industrial Project II (PRJ 60708)

Content of Chapters

Students are allowed to edit the below according to their project specifications except Chapter 1.

Please indicate which type of project in the Introduction section in Chapter 1.
Students are to discuss which type of project to be written with the supervisor or module coordinator.

Long Project: Students can use the details from the previous semester if involved with the same project.

Short Project: The students doing their Task/ System Development according to the current semester may have to write information according the chapters below. The students may not carry out the project in the flow indicated below. Try as much to get hold of the information of the task/system development of the project involved.

If the student cannot get hold of the information relevant to the project, please write the reason in the report. Assure to inform academic supervisor about this.

1.1. Project Proposal

- 1.1.1. Determine project title
- 1.1.2. Introduction and Topic analysis
- 1.1.3. Examine the problem's objectives
- 1.1.4. Determine the project's objectives
- 1.1.5. Establish assumptions
- 1.1.6. Create a project summary
- 1.1.7. Determine the scope of the project
- 1.1.8. Create project milestones and deliverables
- 1.1.9. Create an executive summary

1.2. Delegation of Tasks

- 1.2.1. Construct a work breakdown structure
- 1.2.2. Create an activity list
- 1.2.3. Workload distribution to team members

2. Literature Review

2.1. Define Problems

2.1.1. Study on the problem areas

2.2. Similar Systems

2.2.1. Identify similarly implemented systems

2.2.2. Study through the implemented systems

2.3. Implementation Technologies

2.3.1. Identify technologies for implementation

2.3.2. Study on technologies for implementation

2.3.3. Finalize technology stack

2.4. Framework

2.4.1. Identify suitable frameworks for development

2.4.2. Study on suitable frameworks for development

2.4.3. Finalize frameworks for development

3. System Design and Analysis

3.1. Frontend

3.1.1. Create UI design and assets

3.1.2. Finalize UI design and assets

3.2. Backend

3.2.1. Create an entity-relationship diagram

3.2.2. Develop a proposed system workflow

3.2.3. Create an UML class diagram

3.2.4. Create an UML state chart diagram

3.2.5. Create a data flow diagram

3.2.6. Create a sequence diagram

3.2.7. Develop initial pseudocode/flowchart

3.3. Test Plan

3.3.1. Develop testing plan (unit testing)

- 3.3.2. Create test scenarios
- 4. System Development (Execution)
 - 4.1. Frontend
 - 4.1.1. Translate prototype design into code
 - 4.1.2. Carry out web portal implementation
 - 4.2. Backend
 - 4.2.1. Carry out database setup and implementation
 - 4.2.2. Carry out web portal implementation
 - 4.2.3. Carry out third-party API integrations
 - 4.3. Unit Testing
 - 4.3.1. Build unit tests with chosen framework
- 5. System Testing
 - 5.1. Unit Testing
 - 5.1.1. Execute previously built unit testing packages
 - 5.2. Integration Testing
 - 5.2.1. Ensure that API integrations are working as intended
 - 5.3. Other testing
 - 5.3.1. Ensure that all test scenarios are functional and valid
- 6. Documentation
 - 6.1. Implementation
 - 6.1.1. Complete the report
 - 6.1.2. Finalize the report
 - 6.2. User Manual
 - 6.2.1. Create a user manual
 - 6.2.2. Finalize the user manual

PAGE FORMATTING

Page Margin

Right ,Top, Bottom margins : 2.5 cm

Title /Paragraph margin

The chapter number and title should be left margin

The subsection number should be aligned to the left margin.

The first paragraph in a subsection should be aligned to the left margin.

text in the paragraphs should be justified.

Typesetting

Font type : Times New Roman

Font Size : 18 (chapter); 12 (subsection title / content)

Chapter Title : Uppercase , Bold , Centre (chapter); Bold, Justify (subsection title); Justify (content)

Spacing

General Spacing : 1.5 lines

Table/figure & first line of text : 3.0 lines

Chapter

A new chapter must start on a new page.

A subsection title should not begin on the last line of the page.

A new paragraph should not begin on the last line of a page.

Numbering the Chapters and Subsections

All chapters and their subsections must be numbered and titled.

Example

Chapter 2 Title of Chapter

2.1 Title of the subsection (second level)

2.1.1 Title of the sub-section (third level)

2.1.1.1 Title of the sub- sub section (fourth level)

Tables in Text

All the tables are numbered with respect to the chapter using Arabic numerals. For example, Table 2.3 is the third table that appears in Chapter 2.

All tables must have a caption positioned at the top of the table. Captions should be bold and written in Title Case

If the caption is written in a single line, it should be centered. If the caption is more than one line it should be aligned to the left.

A table should be positioned after it has been cited for the first time in the text. All tables in the chapter can also be grouped together and positioned at an appropriate location.

Figures in Text

All the Figures are numbered with respect to the chapter using Arabic numerals. For example, Figure 2.3 is the third table that appears in Chapter 2

All figures must have a caption and should be positioned at the **bottom** of the figure. Captions should be bold and written in Title Case.

If the caption is written in a single line, it should be centered. If the caption is more than one line it should be aligned to the left.

Figure should be positioned after it has been cited for the first time in the text. All figures in the chapter can also be grouped together and positioned at an appropriate location.

Page Numbering

Page numbers should be printed at the **bottom right hand corner of the page**.

Preliminary Pages

These include the title page, declaration, acknowledgement, abstract, table of contents and a list of tables/ figures.

Numbered using small letter Roman numerals (i, ii, iii...)

The first page is the Title Page. This page is counted as “i”

Body of the Report

The first page of a chapter should be counted.

The numbering for References continues from the body text

The numbering for Appendices continues from references.

Citation

The format for citing sources in the Industrial Training Report follows APA referencing style.



Project Report

Industrial Project II (PRJ60708)

TITLE
Student Name
(ID222222)

SCHOOL OF COMPUTER SCIENCE
BACHELOR OF COMPUTER SCIENCE
(HONS)

AUG 2022[PART 2]

SUPERVISOR: Dr

Acknowledgement

Two to three paragraph

Abstract

In this document,

Chapter 3: System Design and Analysis

3.1 Proposed System

Figure 3.0: System architecture of proposed system

3.2 Use Case diagram

Figure 3.1: Use Case Diagram

3.3 Use Case Specification

Table 3.0: Use Case Specification of the CMS

3.4 SWOT Analysis

Table 3.1: SWOT analysis