

Cardiff Metropolitan University Assignment Cover Sheet

Student Details	S						
Name							
Student ID							
Scheduled unit	details						
Unit code & Tit	le		CIS6002 S	Software I	Engineering	Dissertation Pro	oject
Unit enrolment	details		Year				
			Study peri				
Lecturer			Ms. Asank	ki Fernanc	lo		
Mode of deliver	·y						
Assignment De	etails						
Topic							
Learning Outco	mes						
Word count							
Due date			WRIT 06 th October 2022 Presentation 08 th October 2022				
Extension grant	ed?		Yes	No	Extension I	Date	
Is this a resubm	ission?		Yes	No	Resubmissi	ion Date	
Declaration							
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CMU BA (HONS) BMS - ASSIGNMENT FEEDBACK PERFORMA -ICBT CAMPUS

STUDENT NAME:		STUDENT NUMBER:
Module Number & Title:		Semester:
		Semester.
Assignment Type & Title:		
For student use: Critical feedback on the individual pr	ogression towards achieving	the assignment outcomes
For 1st Assessor use: Assessment feedback	For 2 nd Assessor use: Ass	assmant faadhack
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Areas for future improvement			
Name & Signature of the 1st		Date :	
Assessor:		Date.	
Name & Signature of the 2 nd		Date:	
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Assignment 1

The learning outcomes assessed are:

On successful completion of the module, students should be able to:

- Specify the nature of the problem being investigated, stating aims and objectives that are appropriate, realistic and achievable.
- Conduct a literature review within the context of the problem.
- Develop and apply appropriate academic theory in the development of a software artefact.
- Critically evaluate alternative approaches appropriate to a defined problem.
- Critically evaluate the research or development project and identify areas for further work.

Introduction

The Software dissertation Project has been designed to provide you with an opportunity to choose and work on a project that reflects your own interests in the context of the aims and outcomes of your study programme. Learners must conduct a research to find a solution for existing problem in a business, society or in any other domain and design and develop software solution to address that gap. Software solution should result in something of your own making which shows your knowledge and capabilities in the best light.

This should be an innovative unique research project.

Assignment Evaluation

• Final Product / thesis (80%)

• Presentation (20%)

Project Milestone and Deliverables

The project unfolds in a series of overlapping stages. Each stage involves a number of distinct tasks each of which is intended to produce some outcome or results. Some of these results will need to be in place before other tasks can begin whilst other tasks may be able to run concurrently. To make good use of your time it is important to plan your project so that there is always some task to be doing if you ever need to wait for the outcome from some other task.

To help you to make progress with your project, there are some milestones which are deadlines by when the outcome of a particular task or stage must be finished. To help your supervisor to assess the quality of your work, you will be required to submit the results of the identified tasks for marking and feedback. Such submissions are called deliverables. The milestones and deliverables are specified as follows:

		Milestone			Deliverables	
Project R	egistration					
Project P	roposal Subm	nission and Presenta	ition			
Project P	roposal Feed	back				
Project	Progress	(documentation,	presentation,	working		
demonstr	ration) – 1					
Project	Progress	(documentation,	presentation,	working		
demonstr	ration) – 2					
Final Project / Thesis submission						
Final dem	nonstration / \	/iva				

Basic Guideline for Project

Stage 1: Project Planning

Project Planning has the following tasks:

- (i) **Topic identification**. You need to decide what kind of area you would like to do your work in. This will allow the coordinator to find a staff member suitable for supervising you.
- (ii) **Preparation for supervision**. You must arrange and attend an initial meeting with your supervisor. He or she will want to know your draft project title and see a brief written description of what work you have in mind. First impressions are important.
- (iii) **Subject area study**. Once you have settled your topic area you need to begin researching in more depth. Find books in the library and other sources on the Internet. Keep a note of the references. Write up a description giving your views of the area and, where you can, outline *what* problem that you are planning to solve or *which* issues that you are planning to investigate.
- (iv) **Methodological considerations**. Next you should consider *how* you will tackle you project work. What are its aims and objectives? If you are gathering information, what methods will you use to collect it? What methods will you use to analyse it? Answering these questions will lead to your *research design*. If you are developing software, what development methodology will you use? What tools do you need? Answering these questions will break your project down into its constituent tasks. You may need to take into consideration the ethical requirements of the Engineering and Information Sciences School Research Committee and the professional requirements of the British Computer Society to ensure that your project is in compliance. Result: Detailed project description.
- (v) Planning. Once you know what you want to do and how you plan to do it, the next step is to calculate how you can manage to do it in the time available to you. This can be done by making a timeline showing all the necessary tasks and estimating how long each one will take. In that way it will be possible to predict when certain deliverables will be created. The most important one will be your project report which has to be completed by the 12 week deadline. Finally you will have to think about any special resources you might need for your project. This can include access to

hardware or software or even to particular people – for example the directors or managers of a business.

(vi) **Writing the Proposal**. The final task of the Planning stage consists of putting together all the components you have prepared in the early tasks to form your Project Proposal. You can select the proposal temple, with your' supervisor.

Stage 2 Project Execution

Project Execution has the following tasks:

- (i) **The Literature Survey**. Here the task is to locate and digest relevant and current literature relating to your topic. By reading and understanding what other researchers have been doing, you learn more about your subject and it puts into perspective the work that you are planning to do.
- (ii) The main project work. At last you are ready to start doing the work that you have planned. If your planning has been good you will just be following the development methodology or the research design which you chose during the planning stage and if you are lucky (and you are working hard enough) you will be able to stick to the schedule. One by one, the deliverables you have identified will emerge. It is important to keep in touch with your supervisor, discussing your ideas and strategies and seeking guidance and advice where you need it. Try to arrange regular meetings with your supervisor and keep a record of your encounters, reporting on what was discussed and noting what is promised for the next session.
- (iii) **Software Product Development**. If you are developing the software you have to use appropriate system architecture and relevant design Patten. You can use any programming language and any database software. You have to follow the proper coding standards and testing methods.

Stage 3: Project Presentation.

There is little point in undertaking the labour of your project unless you can convey its results to others. In this module, the results are presented in two ways – the Report and the Viva. These are the tasks:

(i) **Planning the report**. A good report is like a story – it should tell the reader how you went from the initial stages to choosing your topic and problem, through all the

decisions you made about what to do and how to do it, and all the work you did in learning more about your subject, up to the point where you achieved your results. Then the report should go beyond that and give your views about your results – how accurate or reliable they are and how valid they are; and also of the project as a whole – did you achieve what you set out to do? A good story does not happen without careful planning about what information to include, in what level of detail and in which order. Consideration must also be given to the form of presentation – the style and layout of the writing, labelling of diagrams and handling of references

- (ii) Writing up the chapters. Remember that the project stages can overlap somewhat and this task is an example of where that can happen. If you can do a certain amount of the writing up as you are completing the work, it gives you better chance of sharing your output with your supervisor and benefiting from that additional feedback. Writing up in this way is also a good way of using up 'dead' time that can occur while you are waiting for the outcome of other tasks.
- (iii) **Conclusion and Abstract**. These are two special parts of the report. The Abstract is a summary of the whole report that appears at the very beginning and is the first thing read by the reader (first impressions are important). The conclusion is the last chapter and is usually the last thing read by the reader. It is therefore worth giving special attention to the structure and scope and even the language used in these sections

Assessment criteria

1. Assessment and Weighing

This module is assessed as follows:

• Final thesis (80%)

• Presentation (20%)

2. Project thesis marking criteria

Content	Comments	Allocated marks	Marks achieved
Achievement of objectives		25	acmeved
Use of Literature		15	
Methodology		20	
Analysis and discussion/ Solution design and implementation		30	
Report structure and use of academic writing		10	
Total			

Component	Achievement of objectives	Allocated marks	25		
Range %	Criteria				
0-29	Substantial deficiencies throughout or a combination of is needed	incompleteness wh	nere major rework		
30-39	Serious shortfall in achievement of objectives. Treatme incomplete.	Serious shortfall in achievement of objectives. Treatment of results is too superficial and/or incomplete.			
40-49	There is an adequate quantity of appropriate level work involving application of course-relevant knowledge and leading to limited achievement of undemanding objectives. However, there may be significant shortcomings - errors/omissions - in the various aspects of the study area.				
50-59	Evidence of generally competent work leading to achievement of appropriate, but not fully challenging, objectives; or some incompleteness of challenging objectives.				
60-69	Evidence of good quality work, involving in-depth achievement of demanding objectives, although some thoroughly and/or with greater depth and insight.				
70-79	Evidence of much high quality work, involving advance course, and leading to the achievement of demanding of	• • • • • • • • • • • • • • • • • • • •			
80-100	Excellent quality work, involving advanced theory/co leading to the achievement of very demanding objection content demonstrates in-depth knowledge of the subject and has benefited from the outcomes of extensive reservable.	ives using appropri ect area relevant to	ate methods. The		

Component	Use of Literature	Allocated marks	15	
Range %	Criteria		l .	
0-29	Little or no relevant research or demonstration of abilit	y to undertake rese	earch.	
30-39	Little research but enough to indicate ability to pass if f	urther work undert	aken.	
40-49	Some relevant research, but with shortcomings in extent and level. Some appraisal of relevance, but significant shortcomings in extent or validity of analysis.			
50-59	A broad research identifying much information. However some may not be directly relevant and more advanced work may be overlooked. There may not be a demonstration of knowledge and understanding associated with higher grades.			
60-69	Comprehensive consideration and analysis of findings	Wide ranging research using most techniques/sources to achieve a good information base. Comprehensive consideration and analysis of findings. Reasoned recommendations cover most relevant areas, although these could have been covered with greater depth and/or insight. All references are cited minor issues in citations.		
70-79	Wide ranging research using appropriate techniques/sources and achieving a large information base. Critical analysis of findings with very good consideration of relevance. All documentary sources (texts, journal articles, etc.) are listed under the reference heading and appropriately cited in the report.			
80-100	Very wide ranging research using all appropriate to extensive information base. Critical analysis of findings relevance. Effective development of an extensive knowledge base	with comprehensiv	e consideration of	

Component	Methodology	Allocated marks	20	
Range %	Criteria			
0-29	Inappropriate methods described. Little or no considera	tion of alternative	approaches.	
30-39	There is an insufficient description and consideration of	alternative approa	ches.	
40-49	There is an adequate consideration of methodology leading to reasonable choice of approach, adequately described.			
50-59	Alternative approaches have been considered and some reasoning supports selection. Those selected as most suitable are justified. Limitations of the methods have been identified.			
60-69	Alternative approaches have been considered and those appropriate selected with some justification. Limitations of the methods have been identified and ways to overcome them suggested			
70-79	Alternative approaches have been identified and analysed and those most appropriate selected with justification and are clearly described. Limitations of the methods identified and suggested ways to overcome them.			
80-100	A wide range of alternative approaches have been iden in depth. Those most appropriate have been selected described. Limitations of the methods have been idea suggested.	with full justification	on and are clearly	

Component	Analysis and discussion/ Solution design and implementation	Allocated marks	30	
Range %	Criteria			
0-29	Little or no evidence of interpretation /analysis of resul	ts/findings.		
30-39	Some, but insufficient, evaluation, but with enough evid	dence of ability to a	nalyse.	
40-49	There is evidence of ability to undertake basic treatment of information/results and to explain straightforward findings. There may be some flawed analysis and/or omission of some areas.			
50-59	There is interpretation of straightforward data/findings. Analysis is limited in extent and depth and may have some errors/shortcomings.			
60-69	Care and competence in the analysis of findings, but without the depth and/or consideration of wider issues. Selections, conclusions and recommendations are well justified.			
70-79	Interpretation and analysis of findings related to advanced theory/concepts is present and justified. Alternative approaches and wider issues are considered.			
80-100	Interpretation and analysis of findings related to ac justified. Alternative approaches and wider issues are creasoned and logical justification for selections, conclusions.	considered comprel	nensively. There is	

Component	Report structure and use of academic writing	Allocated marks	10	
Range %	Criteria			
0-29	Report requires major drafting/re-drafting in most or al	ll sections.		
30-39	Serious shortcomings in structure and/or presentation	and/or academic wi	riting is lacking.	
40-49	Includes major elements but there may be omissions of as inappropriate use of chapters, sections, figures and a	_	ogical order, such	
50-59	Report generally follows guidelines including all main elements. There may be some shortcomings in clarity of both text and visual presentation and some minor omissions of content.			
60-69	No significant shortcoming in structure with a Tabulated/diagrammatic/visual presentation of data is a throughout. Style and language generally in accordance may be some minor deficiencies.	clear and the report	is well referenced	
70-79	Report includes all necessary elements and is ap Presentation of result/findings is clear and is supported /tabular techniques. Succinct text with style and languinguidelines.	d using suitable visu	ual /diagrammatic	
80-100	Report includes all necessary elements and is me Presentation of result/findings is clear and is supported /diagrammatic /tabular techniques. Succinct text with sall guidelines and with no significant shortcomings appendices.	ed using the most a style and language in	appropriate visual n accordance with	

3. Project presentation and viva marking criteria

Content	Comments	Allocated	Marks
		marks	achieved
Content		20	
Presentation		50	
Questions and		30	
answers			
Total			

Component	Content	Allocated marks	20
Range %	Criteria		
0-29	Content either incoherent and lacking awareness of basic presentation requirements, or lacking relevant content.		
30-39	Lack information on key aspects of project, but should be able to attain pass standard with some additional time in preparation		
40-49	Some deficiencies of key points, lacking clarity, and/or with little impact and some errors. There may be indication of a shortage of planning and care in composing/creating the display.		
50-59	Reasonable encapsulation of key points, although the slides may be over-detailed, too vague or, in part, lacking a clear message and/or including some errors.		
60-69	Good encapsulation of key points, generally clear, with good impact. There may be a small number of minor errors present		
70-79	Very good encapsulation of key points, clear, high impact. There may be a small number of very small errors present.		
80-100	Excellent encapsulation of key points, extremely clear, h	nigh impact, error fre	ee.

Component	Presentation	Allocated marks	50
Range %	Criteria		
0-29	Very poor presentation Major shortcomings in clarity and/or relevance.		
30-39	Presentation lacks clarity and/or relevance. Some attempt of planning is evident.		
40-49	Presentation not well planned and delivered, but of although with significant deficiencies in content/clarity,		vant information,
50-59	Fair description of major features and achievements, some aspects lack of clarity.		
60-69	Good verbal description of main features of project; strinteresting.	aightforward to foll	ow, confident and
70-79	Well planned, coherent oral presentation express appropriate to the audience	ed with confiden	ce and interest,
80-100	An excellently planned, coherent oral presentation expresentation skills are displayed with all areas covered	•	

Component	Questions and answers	Allocated marks	30
Range %	Criteria		
0-29	Responses are incoherent or display lack of essential knowledge and/or relevance.		
30-39	Serious shortfall in ability to explain fundamentals some very basic level knowledge shown.		
40-49	Some hesitance in responses/discussion indicates lack c issues, and/or lack of understanding in some areas.	f familiarity with th	e topic and wider
50-59	Reasonable responses to questions and is able adequate deficiencies in knowledge.	ely discuss. There m	ay be some minor
60-69	Good responses to questions and in discussion appear specific topic and with relevant wider issues.	rs to be generally	familiar with the
70-79	Very good responses to questions and in discussion ap topic and with relevant wider issues.	pears to be familian	with the specific
80-100	Confident, succinct and informative responses to questi informed on specific subject knowledge as well as wide	•	• •

Final Grading criteria for the coursework

Marks	Final Grade
>=70	1
69-60	2:1
59-50	2:2

49-40	3
<40	fail