MSc Software Development Dissertation Assessment Process

Assessment criteria

There are five assessment criteria for the MSc Software Development dissertation: student performance, project product, project process, evaluation and presentation of the final report.

Student Performance

Student performance is evaluated on the basis of their thoroughness and devotion to work, initiative, organisation, planning and progress, appreciation of project achievement (strengths, weaknesses, and limitations), and potential for further development and extension.

Project Product

The project product is evaluated on the basis of its functionality and overall quality, as well as on the basis of the supporting documentation produced. More specifically:

- 1. Design
 - The design is evaluated on the appropriateness of design choices such as use of design patterns. How extensible the design is, and how easily it is understood as well as following best practice design principles. It should also demonstrate consideration of alternative designs and justify any choices made. Note this is at the architectural and detailed design level.
- 2. Implementation
 - The implementation is evaluated on the basis of how well it meets the project requirements, the extent to which it incorporates the required functionality, its look and feel, and the organisation and quality of the code produced. This also incorporates project documentation. Documentation can include aspects such as code comments e.g. using JavaDoc, a user manual, and a maintenance guide. The documentation should be comprehensive, of sufficient quality and provide a useful user guide and maintenance documentation.
- 3. Verification and validation is evaluated based on the quality and appropriateness of the adopted testing strategy, the extent of testing carried out, and the extent to which product reliability and robustness are verified.

Project Process

The project process is evaluated on the extent to which a well-planned and well-organised approach has been followed throughout, on the extent to which alternatives have been considered, and on the extent to which a process informed by best practices has been followed throughout.

Project Results and Evaluation

The project process is evaluated on the extent to which the project product and process are appropriately and critically evaluated, and the appropriateness and quality of the experimental evaluation methodology identified, implemented, and presented.

Report Presentation

The report presentation is evaluated based on how well it presents and communicates the achievements and challenges of the project, as well as on its structure, readability, and language.

There is one marking scheme for all projects

Assessment criterion	%age of final dissertation mark
Product	
Implementation (including documentation as this indicate maintainability)	25%
Verification and Validation	10%
Product Total	35%
Process	
Methodology, analysis and documentation	15%
Design	10%

Process Total	25%
Results and Evaluation	20%
Report Presentation	10%
Student Performance	10%
	100%

The table below provides a guide to how marks will be awarded for each criterion against the possible degree outcomes for a Master's degree program.

%	70-100	60-69	50-59	< 50
Classification	Distinction	Merit	Masters (pass)	Fail
Student	Student engaged with	Student engaged with the	Student has engaged with the	Student's engagement with
Performance	the project and	project and supervisor in a	supervisor in a satisfactory	the supervisor is likely to
	supervisor in a highly	mostly professional	manner. There is significant	have been limited or there
	professional manner.	manner. They were	room for improvement. For	was no engagement until
	They were dedicated to	generally dedicated to their	example, they could seek the	close to final submission.
	their work and	work and approached many	supervisor's advice more, arrive	
	approached all aspects	aspects in a methodical and	on time to meetings, initiate	
	in a methodical and	thorough manner. The	more discussion and take more	
	thorough manner. The	student demonstrated that	responsibility for their	
	student demonstrated	they were self-motivated	performance.	
	that they were self-	but could have taken more		
	motivated and could	responsibility for the		
	critically evaluate their	direction and evaluation of		
	own work.	the project.		
Project	The functionality of the	The functionality of the	The functionality of the product	The quality of the final
Product	product matches the	product mostly matches the	mostly matches the	product and supporting
	requirements and the	requirements and the	requirements in places and the	documentation produced is
	functionality	functionality demonstrates	functionality demonstrates	inadequate to demonstrate
	demonstrates a high	some depth of	some understanding and	sufficient depth of
	depth of understanding	understanding and	capability.	understanding. The
	and capability as well	capability.	All software produced is of	functionality is inadequate,
	as clear original	Any software produced is of	satisfactory quality. Whilst it is	and documentation is likely
	thought.	very good quality – it is	likely to be mostly functional, its	to be minimal.
	All software produced	mostly robust, reusable,	quality could be substantially	
	is of excellent quality –	secure, easily extendable,	improved and it may only meet	
	it is highly robust,	correct, well designed and	some requirements. It may be	
	reusable, secure, easily	mostly follows best	substantially improved in areas	
	extendable, correct,	practice. However, there is	such as its robustness, design,	
	well designed and	room for improvement in	reusability, security,	
	follows best practice. It	these areas. It is	extensibility, correctness and	
	is accompanied by	accompanied by mostly	use of best practice. It is	
	thorough and useful	thorough and useful	accompanied by some	
	documentation such as	documentation such as a	documentation such as a user	
	a clear user guide and	user guide and	guide and maintenance	
	maintenance	maintenance	documentation.	
	documentation.	documentation.		

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There are likely to be clear					
areas for improvement.			-		

%	70-100	60-69	50-59	< 50
Report	The report	The report communicates	The report communicates most	The report is likely to have
Presentation	communicates all	most appropriate aspects of	appropriate aspects of the	missed many appropriate
	appropriate aspects of	the project in a mostly clear	project in a somewhat clear and	aspects of the project and is
	the project in a clear	and organised manner. It	organised manner.	likely to be very
	and organised manner.	demonstrates a critical and	It demonstrates satisfactory	disorganised and unclear.
	It demonstrates a clear,	reflective thought process.	critical and reflective thought	It demonstrates no critical
	critical and reflective	It is also literate and	processes. It is also mostly	and reflective thought
	thought process. It is	relatively easy to read.	literate. There are clear areas	processes. It is often
	also highly literate and	There are likely to be one or	for improvement.	illiterate. There are many
	very easy to read.	two larger aspects which		areas for substantial
		could have been improved.		improvement.