

Course / Programme: MSc Software Engineering

Module name and code: SWE7301: Contemporary Software Engineering Practices

Tutor: Francis Morrissey

Assignment Number: 2 of 2

Assignment Title: Development, Testing and Risk Management

Weighting 60% of overall module grade

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For late submission, see Assessment Regulations for Postgraduate Programmes:

Assessment Regulations for Postgraduate Taught Programmes 2024-25

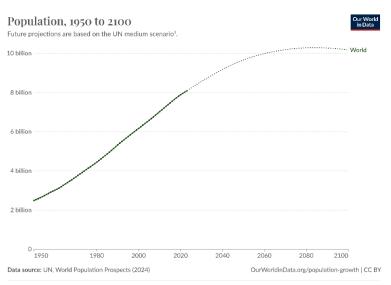
Learning Outcome assessed:

2. Demonstrate appropriate risk management and systematic testing strategies for complex projects

3. Design and engineer software artefacts for a given brief using contemporary approaches

Scenario

The earth's global population is projected to grow to 9 billion before 2040; a threefold increase in less than a century. Consequently, the need for fresh water is growing, not only for human consumption but also for industry. Arid regions, prone to drought due to low precipitation and high evaporation and global warming, face significant challenges.



^{1.} UN projection scenarios: The UN's World Population Prospects provides a range of projected scenarios of population change. These rely on different assumptions in fertility, mortality and/or migration patterns to explore different demographic futures.

'Shade balls', UV-resistant spheres made of highdensity polyethylene, offer a solution by reducing reservoir evaporation, algae growth, and chlorine costs. Over a decade, they can save 1.5 trillion liters of water.

For this contrived scenario, RoundSpheres, a firm specialising in producing water conservation solutions seeks to develop an eCommerce platform to market



their products and provide data for scientific analysis and predictive modelling initiatives. The expected deluge of data will be stored in a data lake for mining and predictive analytics by scientific communities and academic institutions. The business model includes subscription access to unstructured data in data lakes and cleaned and processed data in data warehouses.

Activity

After reading your report which critically evaluated contemporary software engineering practices in contrast to conventional Software Engineering methodologies, RoundSpheres is convinced that an Agile methodological approach would be most appropriate for Software Engineering in situations where requirements are unclear or are likely to change throughout the development period.

Two artefacts will be delivered:

- 1. A website which serves a portal to market and sell items, and to facilitate access to data by the scientific community.
- 2. An API which collects data from bespoke self-charging spherical IOT devices interspersed with regular spheres in reservoirs to provide measurement data for scientific purposes.

The Scrum Team has written the following User Stories during the Sprint Planning event as follows:

As a Development Team member, I want to use the SQLite3 Database during development of both the API and website for speed of development. Migrations for the MySQL Community Server architecture can be done during deployment. This process is straightforward and well-documented.

As a Product Owner, I want the API and website to be based on Python since many of the staff who will be maintaining this API in the future are familiar with this language.

As a member of the Development Team, I would like As a member of the Development Team, I would like to develop UML Class diagrams for both the API and to develop UML Use Case diagrams for both the API website so that a shared understanding of different and website so that a shared understanding of system types of objects is assured by examining static behaviour can emerge in order to ensure that all relationships that exist between them. requirements have been captured. As a member of the Development Team, I would like As a member of the Development Team, I would like to develop UML Activity diagrams for both the API to develop Entity Relationship diagrams for both the and website so that a shared understanding of API and website so that a shared understanding of system behaviour will result from developing a visual the database model is established by scrutinising a depiction of the sequence of actions in a process. visual representation depicting relationships among objects. As a Product Owner, I want the Flask framework to As a member of the Development Team, I want to use the Flask Development framework for API be used for API development and the Django development so that Scrum Team can see valuable framework to be used for website development so increments at Scrum Events very quickly. that current IT staff who already have familiarity with Python-based frameworks will have a shorter learning curve during the maintenance phase. As Product Owner, I want the API to be constructed As Product Owner, I want the API to use the based on API development best practice (OpenAPI) JavaScript Object Notation (JSON) since it is and documented using Swagger accordingly to ensure currently the de facto data interchange format for interoperability with future systems which may APIS. consume this API and evolution and maintenance. As Product Owner, I want the API to use standard As a Product Owner, I want the API to return HTTP methods including POST, GET, PUT, PATCH, appropriate HTTP method status codes for each and DELETE to ensure interoperability with future operation so that systems consuming this API may system interfaces. handle exceptions appropriately. As Product Owner, I want the API to store details As a Product Owner, I want the API to allow data to for HTTP GET request methods such as date (ISO be fetched based on specified parameters to reduce 8601 - YYYYMMDD), time (ISO 8601 - hh:mm:ss), the payload for each API operation. time zone offset (ISO 8601 e.g. UTC-10:00), coordinates in decimal degrees, temperature - water (C°) , temperature – ambient air (C°) , humidity (g/kg), wind speed (km/h), wind direction (decimal degrees), precipitation (mm), haze (90) and notes.

As a Product Owner, I want the API to feature As Product Owner, I want the API to restrict any security strategies using a combination of techniques attempted amendments to observations prior to the including JWT. current quarter. As Product Owner, I want the API to facilitate allow As Product Owner, I want the API to allow bulk operations for operations to improve speed and amendments to specific records that have previously efficiency. been persisted to ensure accuracy of information. As Product Owner, I would like subscribing institutions to have access to the API by requested a JWT through the website. As a member of the Development Team, I want to As a member of the Development Team, I want to use the SQLAlchemy Object Relational Mapper for use the built-in Flask webserver for the API to API development so that rapid progress can be support rapid development of increments for demonstrated at Sprint Events by leveraging the demonstrations at Sprint Review events. Gunicorn can features of the built-in object-relational mapping layer be configured during the deployment phase when (ORM). performance concerns are more crucial due to the number of simultaneous connections. Configuring Gunicorn at that point is straightforward and welldocumented. As a member of the Development Team, I want to As a member of the Development Team, I want to use the built-in Django webserver for website develop the API and website locally instead of in the development which auto-loads when changes are made Cloud to focus on construction of valuable software to support rapid development of increments for increments to demonstrate at Sprint Review events instead of DevOps processes. Migration to the Cloud demonstration at Sprint Review events. Nginx or Gunicorn can be configured to serve pages during the can be done in the Deployment phase; this process is deployment phase when performance concerns are straightforward and well-documented. more crucial due to the number of simultaneous connections. Configuring Nginx or Gunicorn at that point is straightforward and well-documented. As a member of the Development Team, I want to As a Product Owner, I want the Django framework to be used to be used for website development so ensure responsiveness regardless of resolution and use that current IT staff who already have familiarity themes from Bootstrap Front End Framework for with Python-based frameworks will have a shorter website development since it would support rapid learning curve during the maintenance phase. development during Sprints. Further tweaking work relating to aesthetics can be done by dedicated Front

	End designers who specialise in this area during the				
	Deployment phase.				
As a member of the Development Team, I want to	As a member of the Development Team, I want to				
use the Django Development framework for website	use the Django Development framework for website				
development so that Scrum Team can see valuable	development so that rapid progress can be				
increments at Scrum Events very quickly.	demonstrated at Sprint Events by leveraging the features of the built-in object-relational mapping layer				
	(ORM).				
As a Product Owner, I would like the use of the	As Product Owner, I would like clients to be able to				
Django Development framework for website	register for accounts on the website with email				
development since it has built-in security features to	confirmation so that we can be assured that data held				
protect against exploits such as Cross Site Request	will be accurate and that future emails will be received				
Forgery (CSRF) and SQL Injection to reduce exposure	by the client.				
to security exploits.					
As Product Owner, I would like observers and	As Product Owner, I would like observers and				
subscribing institutions to view and amend their	subscribers account details to be stored securely so				
details securely through the website.	that risk exposure to the firm is minimised.				
As a member of the Development Team, I would like	As a Product Owner, I want the API and the website				
to use a payment gateway so that risk exposure	to be compatible with MySQL Community Server since				
through the application is minimised.	already employed DBAs already have familiarity with				
	this product so there will be a shorter learning curve				
	during the maintenance Phase.				
As Product Owner, I would like observers to be able	As Product Owner, I want the API and website to				
to record observations through the website.	use the Gunicorn webserver due to speed and capability				
	over alternatives.				
As a member of the Development Team, I want to	As a member of the Development Team, I want to				
use SQLite3 Database so that we can demonstrate	use Github as a source code management system which				
increments during Sprint Events very rapidly without	tracks changes in the source code and enables multiple				
the overhead of MySQL. The migration from SQLite3	developers to work together on non-linear development.				
to MySQL is straightforward and well-documented					
and can be done during the Deployment phase.					
As a Product Owner, I want the API and website to	As Product Owner, I want the API and website to be				
be hosted on Amazon Web Services (AWS) so that it	served using Gunicorn over Apache so that the firm				
can be easily managed by current SysOps personnel					

who are already managing other deployments on that	can benefit from the increased performance due to			
platform.	simpler configuration and faster performance.			
As Scrum Master, I would like the Product Owner to	As Scrum Master, I would like the Development Team			
use the MoSCoW method of prioritisation so that the	to use the Planning Poker Agile consensus-based			
Development Team has a transparent understanding	estimating technique so that work requirements are			
of the importance of each User Story.	clear to the Scrum Team for each User Story.			
As Scrum Master, I would like the Scrum Team to use	As Scrum Master, I would like the Development Team			
a collaborative visual tool for tracking project	to create a Risk Management Plan so that potential			
progress so that it is clear which User Stories are	impediments to project success are considered. The			
being prioritised and how each task is advancing.	appropriate strategy such as Risk acceptance, Risk			
	transference Risk avoidance and Risk reduction should			
	be considered for each.			
As a Development Team member, I would like to use	As a Development Team member, I would like to use			
an appropriate framework for Test Driven	the DBeaver Community Edition tool to manage the			
Development features since it is integrated, easy to	SQLite Database during development so that			
use and effective. I would like to ensure that the	members working on different platforms can use the			
application works as intended and that the	same tools.			
requirements meet the Definition of Done.				

Instructions

- Using the Scrum Framework, you will work in Development Teams of three (3) to nine (9) students.

 Team members will be assigned by your tutor.
- For the purposes of development, your tutor will act as both Product Owner and Scrum Master.
- During Sprints, each member of the Development Team will practise and document selforganisation strategies, results and reflections. This will be discussed during Sprint Reviews with the
 tutor acting as both Product Owner and Scrum Master in various segments of the event. These
 events will be recorded for later review.
- During this module, there will be two (2) Sprints during Product Development each culminating in a Sprint Review. The duration of each Sprint is a maximum of three (3) weeks.
- The Development Team is expected to demonstrate scalable Cloud-based technologies. Each Development Team member will be provided with AWS credit.
- The Development Team is ultimately expected to use MySQL Community Server database for the persistence layer to allow streamlined maintenance across the client's systems. However, this

- requirement is flexible for the prototype and a system based on SQLite3 will be adequate since migration to MySQL is not a complicated process. Web Scripting languages and frameworks will be negotiated with the Product Owner during the Sprint Planning Meeting.
- During Sprints, it should be expected that the tutor acting as the Product Owner will request changes as software artefacts evolve. The Development Team should welcome 'changing requirements, even late in development' (agilemanifesto.org, 2001). It is the responsibility of the Scrum Team to correctly document these requests as User Stories in alignment with the Scrum Framework and determine order and priority. Changes are also expected as a result of testing and refactoring practice; it is important to document these changes.
- Product Increments and associated documentation will be presented to the Product Owner during
 each Sprint Review event. Sprint Reviews will likely take the form of an Online Zoom meeting which
 will be recorded for later review.
- It is expected that work towards the Final report be started from the initial Sprint Planning Meeting.

Task 1 of 3 - Report

Develop a report which includes the following documentation:

- Development Team
 - Overview of the Development Team which includes roles, responsibilities and contributions of each member. This is expected to change for each Sprint.
- Self-organisation practice including negotiation, results and reflection.
- Sprint Planning documentation
- Product Backlog
- Forecast
- Definition of Done
- Review of Product Backlog refinement
- Risk Management strategies and justification
- Product Increments
 - Screenshots must be included and be of high-quality, neatly cropped, appropriately captioned and discussed within report.
- Testing strategies and justification
 Screenshots must be included and be of high-quality, neatly cropped, appropriately captioned
 and discussed within report.

- Sprint Retrospective summaries
- Reflections

Submissions should be made to Moodle before the deadline (10/01/2025@ 2355) using the file naming convention: SWE7301_A2_IDNumber. For example, if your ID Number is 2400000, then your file name in Turnitin should be SWE7301_A2_2400000.

Task 2 of 3 – Technical Demonstration

Prepare and deliver a technical demonstration as a screencast of your artefact to the Product Owner. This should be a maximum of 20 minutes. You should endeavor to discuss salient aspects of the Agile development experience and sections of code which are of special significance.

No demonstration means a mark of zero.

Task 3 of 3 – Peer Reviews

Complete a review of the contribution and performance of each member of the Development Team. This will be done anonymously using online surveys after each Sprint.

Declaration: At the end of the assessment you should also include a declaration of any software tools including Generative AI (GAI) applications that you used in developing and completing the assessment.

Secondary Research Requirements

Level HE7 - It is expected that the Reference List will contain between fifteen to twenty sources. As a MINIMUM the Reference List should include four refereed academic journals and five academic books.

Submission

Submission of report should be made to Turnitin via Moodle before the deadline using the file naming convention below:

SWE7301_A2_IDnumber. For example, if your ID Number is 2400000, then your file name in Turnitin should be SWE7301_A2_2400000.

Use of Generative Artificial Intelligence (GAI) Applications in this Assessment

Al Status	Application	Notes
Category B	GAI can be used to assist you with the assessment.	Grammar and/or spell checkers may be used to correct individual words and sentences. GAI can also be used for specific tasks, e.g. to generate summary information which should then be put into your own words and referenced. Any GAI generated content which is presented as your own original work and is not acknowledged will be assessed for academic misconduct.

Grading

A percentage mark will be provided based on *General Assessment Guidelines for Written Assessments*. Grading is as follows:

Distinction: 70 - 100%

Merit: 60 - 69%

Pass: 50 - 59%

Marks below 50% will be classed as fail.

Specific Assessment Criteria:

Distinction (70% and above):

Students will demonstrate an excellent understanding of the subject content while delivering a systematic review of Software Engineering methodological approaches and associated frameworks; critical analyses results in clear, logical conclusions. Students will demonstrate a comprehensive understanding of the appropriate use of methodologies and situations for which they are best suited. Skilled analyses of related statistical data result in sound conclusions. Extensive research demonstrating use of a wide range of current secondary research sources will be evident. Academic style and referencing will be of an excellent standard.

Merit (60-69%):

Students will demonstrate a good understanding of Software Engineering methodological approaches and associated frameworks, analyses results in acceptable conclusions. Students will demonstrate a reasonable understanding of the appropriate use of methodologies and situations for which they are best suited. Analyses of related statistical data result in logical conclusions. Research demonstrating use of current secondary research sources will be evident. Academic style and referencing will be of a good standard.

Pass (50-59%):

Students will demonstrate an acceptable understanding of Software Engineering methodological approaches and associated frameworks; some analyses will be conveyed. Students will demonstrate an adequate understanding of the appropriate use of methodologies and situations in which they are best suited. Research demonstrating some use of current secondary research sources will be evident. Academic style and referencing will be of a fair standard.

Fail (49% and below):

Students who do not meet the requirements of a Pass grade will not successfully complete the assessment activity.

Guidelines for the Preparation and Submission of Written Assessments

- 1. Written assessments should be word-processed in Arial or Calibri Light font size 12. There should be double-spacing and each page should be numbered.
- 2. There should be a title page identifying the programme name, module title, assessment title, your student number, your marking tutor and the date of submission.
- 3. You should include a word-count (excluding reference list/bibliography, figures, tables and appendices).

Where a word limit is specified, the following penalty systems applies:

- Up to 10% over the specified word length = no penalty
- 10 20% over the specified indicative word length = 5 marks subtracted (but if the assessment would normally gain a pass mark, then the final mark to be no lower than the pass mark for the assessment).
- More than 20% over the indicative word length = if the assessment would normally gain a pass mark or more, then the final mark will be capped at the pass mark for the assessment.
- 4. At the end of the assessment you should include a declaration of any software tools including Generative AI (GAI) applications that you used in developing and completing the assessment. The assessment brief will specify if and how you can use GAI applications in the assessment.
- 5. All written work should be referenced using the standard University of Bolton referencing style—see: https://libguides.bolton.ac.uk/resources/referencing/. Harvard refencing format is used for this programme.
- 6. Unless otherwise notified by your Module Tutor, electronic copies of assignments should be saved as word documents and uploaded into Turnitin via the Moodle class area. If you experience problems in uploading your work, then you must send an electronic copy of your assessment to your Module Tutor via email BEFORE the due date/time.
- 7. Please note that when you submit your work to Moodle, it will automatically be checked for matches against other electronic information, as well as for hidden text characters and GAI generated text. You will be able to see similarity matches but not currently flags for hidden characters and AI-generated text. The outcomes of Turnitin reports may be used as evidence in an academic misconduct investigation (see Section 14).
- 8. Late work

Late work will be subject to the following penalties:

- Up to 7 calendar days late = 10 marks subtracted but if the assignment would normally gain a pass mark, then the final mark to be no lower than the pass mark for the assignment.
- More than 7 calendar days late = This will be counted as non-submission and no marks will be recorded.

• Late submission of assessments on refer and those which are graded Pass/Fail only, is not permitted unless an extension is approved. See below.

9. Extensions

In the case of exceptional and unforeseen circumstances, an extension of up to 14 days after the assessment deadline may be requested using the standard University Extension Request Form. For approval there would need to be an explanation and evidence of relevant circumstances.

Longer extensions for individual assessments, projects and artefacts may be granted, at the discretion of the Programme Leader.

Requests for extensions which take a submission date past the end of the module (normally week 15) must be made using the Mitigating Circumstances procedure.

Some students with registered disabilities will be eligible for revised submission deadlines. <u>Revised submission deadlines for disability adjustments do not require the completion extension request paperwork.</u> However, students should request these in writing in advance.

Please note that the failure of data storage systems is not considered to be a valid reason for an extension. It is therefore important that you keep multiple copies of your work on different storage devices before submitting it.

Academic Misconduct

Academic misconduct may be defined as any attempt by a student to gain an unfair advantage in any assessment. This includes plagiarism, collusion, commissioning (contract cheating and unauthorised use of GAI) amongst other offences.

In order to avoid these types of academic misconduct, you should **ensure that all your work is your own and that sources and software applications are attributed**. You can also check originality through Turnitin.

Please note that penalties apply if academic misconduct is proven. See the following link for further details:

https://www.bolton.ac.uk/student-policy-zone/student-policies-2024-25/academic-misconduct-regulations-and-procedures-2024-25

GENERAL ASSESSMENT GUIDELINES – LEVEL HE7

			Relevance Learning outcomes must be met for an overall pass	Knowledge and Understanding	Analysis, Creativity and Problem- Solving	Self-awareness and Reflection	Research/ Referencing	Written English	Presentation and Structure
NOIL	Exceptional Quality	85-100%	expertly addresses the requirements of the brief. Learning outcomes	Demonstrates an exceptional breadth and depth of knowledge and understanding of theory and practice which is beyond the threshold expectation for the level. Produces exceptional work which makes a contribution to knowledge in the subject area.	Presents an exceptional critique of advanced research material resulting in clear, original, and illuminating conclusions. Expertly interprets complex matters and ideas and makes sound judgments in the absence of complete data. Demonstrates exceptional creative flair and a high level of originality. Develops distinctive, insightful, and creative solutions to complex problems.	Provides insightful reflection and critical self-awareness in relation to the outcomes of own work and personal responsibility.	An extensive range of advanced research sources critically evaluated and selected. Sources cited accurately in both the body of text and in the Reference List/Bibliography.	Writing style is clear, succinct, and relevant to the requirements of the assessment. An exceptionally well written answer with only rare errors in spelling, grammar, and punctuation. Uses a wide range of less common and more advanced vocabulary and sentence types fluently and flexibly to convey precise meanings. Paragraphs are expertly structured with linking and signposting.	The presentational style and layout are correct for the type of assignment. Evidence of planning and logically structured. Where relevant, there is effective inclusion of, and reference to, figures, tables, and images.
DISTINCTION	Excellent Quality	70-84%	comprehensively addresses the requirements of the brief.	Demonstrates an excellent breadth and depth of knowledge and understanding of theory and practice for this level. Clearly demonstrates originality in the application of knowledge.	Presents an excellent critique of advanced research material resulting in clear, original, and illuminating conclusions. Comprehensively interprets complex matters and ideas and makes sound judgments in the absence of complete data. Demonstrates excellent creative flair and a high level of originality. Develops distinctive and creative solutions to complex problems.	Provides excellent reflection and critical self-awareness in relation to the outcomes of own work and personal responsibility	A wide range of advanced research sources critically evaluated and selected. Sources cited accurately in both the body of text and in the Reference List/Bibliography.	Writing style is clear, succinct, and relevant to the requirements of the assessment. A very well written answer with very few errors in spelling, grammar, and punctuation. Uses a wide range of vocabulary and sentence types fluently and flexibly to convey precise meanings. Paragraphs are very well structured with linking and signposting.	The presentational style and layout are correct for the type of assignment. Evidence of planning and logically structured Where relevant, there is effective inclusion of, and reference to, figures, tables, and images.
MERIT	Good Quality	%69-09	and addresses most of the	Demonstrates a thorough breadth and depth of knowledge and understanding of theory and practice for this level. Demonstrates originality in the application of knowledge.	Presents a comprehensive critique of advanced research material resulting in clear and original conclusions. Systematically interprets complex matters and ideas and makes sound judgments in the absence of complete data. Demonstrates creative flair and originality. Develops creative solutions to complex problems.	Provides good reflection and critical self-awareness in relation to the outcomes of own work and personal responsibility, as required by the assessment.	A range of advanced research sources critically evaluated and selected. In the main, sources cited accurately in both the body of text and in the Reference List/Bibliography.	Writing style is clear, succinct, and relevant to the requirements of the assessment. A well written answer with some minor errors in spelling, grammar, and punctuation. Uses a range of vocabulary and sentence types to convey precise meanings. Paragraphs are well structured with linking and signposting.	The presentational style and layout are correct for the type of assignment. Evidence of planning and logically structured in the main. Where relevant, there is effective inclusion of, and reference to, figures, tables, and images.

PASS	Satisfactory Quality	50-59%	Work addresses the requirements of the brief, although superficially in places. Minor irrelevant content. Learning outcomes are met.	Demonstrates a sufficient breadth and depth of knowledge and understanding of theory and practice for this level. Demonstrates originality in the application of knowledge in places.	Presents some critique of advanced research material resulting in original conclusions. Shows the ability to systematically interpret complex matters and ideas and makes sound judgments in the absence of complete data. Demonstrates creative flair and originality. Develops some creative solutions to complex problems.	Provides justified reflection and critical self-awareness in relation to the outcomes of own work and personal responsibility, as required by the assessment.	Advanced research sources critically evaluated and selected. Some errors evident in relation to referencing the text and Reference List/Bibliography	Writing style is readable and relevant to requirements of the assessment in the main. Competently written with minor lapses in spelling, grammar, and punctuation. For example, paragraphs are structured and include some linking and signposting. Sentences are complete. A range of appropriate vocabulary is used.	The presentational style and layout are correct for the type of assignment. Logically structured in the most part. Inclusion of figures, tables, and images but not all relevant or referred to.
FAIL	Borderline Fail	45-49%	Work addresses some of the requirements of the brief. Irrelevant and superficial content. One or more learning outcomes have not been met.	Some omissions are evident in knowledge and understanding of theory and practice for this level. Demonstrates limited originality in the application of knowledge.	A limited critique of research material presented, with simplistic conclusions drawn. Some complex matters and ideas are interpreted but not systematically, resulting in flawed judgements. Limited creativity and originality evident. Demonstrates insufficient problem- solving skills and initiative.	Provides limited reflection and critical self-awareness in relation to the outcomes of own work and personal responsibility, when required.	Sources selected are limited and lack validity/relevance. Poor referencing technique employed.	Writing style is generally readable but lacks relevance to requirements of the assessment in places. Intermittent lapses in grammar, spelling and punctuation pose obstacles for the reader. For example, some paragraphs may lack structure and there is limited linking and signposting. Some appropriate vocabulary is used	For the type of assignment, the presentational style, layout and/or structure are lacking. Inclusion of figures, tables, and images but not clear, relevant and/or referred to.
	Fail	0-44%	Work does not address the requirements of the brief. Irrelevant and superficial content. One or more learning outcomes have not been met.	Demonstrates inadequate knowledge and understanding of theory and practice for this level. A lack of originality in the application of knowledge is evident.	An absence of critique of research material evident with unjustified conclusions. Complex matters and ideas not interpreted correctly resulting in flawed judgements. Creativity and originality are absent. Insufficient problem-solving skills and initiative demonstrated.	Provides inadequate reflection and critical self-awareness in relation to the outcomes of own work and personal responsibility, when required.	Relevant and valid sources are not selected. Poor referencing technique employed.	Writing style is unclear and does not match the requirements of the assessment in question. Deficiencies in spelling, grammar and punctuation makes reading difficult and arguments unclear. Unstructured paragraphs	For the type of assignment, the presentational style, layout and/or structure are lacking. Inclusion of figures, tables, and images but not clear, relevant and/or referred to.