

Task 1(A) - The Proposal			
	1-3	4-6	7-9
Decompose Problem	<ul style="list-style-type: none"> <li>Identifies <b>some</b> problems to be solved</li> <li>Decomposes <b>some</b> of the problems to be solved</li> <li>Meets <b>some</b> client/user needs</li> <li>Mitigates <b>some</b> potential risks</li> <li>addresses <b>some</b> relevant regulatory guidelines &amp; legal requirements</li> </ul>	<ul style="list-style-type: none"> <li>Identifies <b>most</b> problems to be solved</li> <li>Decomposes <b>most</b> of the problems to be solved</li> </ul> <p>Proposed solution effectively:</p> <ul style="list-style-type: none"> <li>Meets <b>most</b> client/user needs</li> <li>Mitigates <b>most</b> potential risks</li> <li>addresses <b>most</b> relevant regulatory guidelines &amp; legal requirements</li> </ul>	<p>Proposal:</p> <ul style="list-style-type: none"> <li>Fully Identifies problems to be solved</li> <li>Effectively decomposes the problems to be solved</li> </ul> <p>Proposed solution effectively:</p> <ul style="list-style-type: none"> <li>Meets <b>full</b> needs of client/users</li> <li>Mitigates <b>all</b> potential risks</li> <li>addresses <b>all</b> relevant regulatory guidelines &amp; legal requirements</li> </ul>
Wider Issues	<p><b>Limited</b> lines of reasoning that <b>partially</b> justify how:</p> <ul style="list-style-type: none"> <li>Solution meets the needs of the client and users</li> <li>Potential risks will be mitigated</li> <li>Solution will address relevant regulatory guidelines and legal requirements</li> </ul>	<p><b>Good</b> lines of reasoning that <b>mostly</b> justify how:</p> <ul style="list-style-type: none"> <li>Solution meets the needs of the client and users</li> <li>Potential risks will be mitigated</li> <li>Solution will address relevant regulatory guidelines and legal requirements</li> </ul>	<p><b>Comprehensive</b> lines of reasoning that <b>fully</b> justify how:</p> <ul style="list-style-type: none"> <li>Solution meets the needs of the client and users</li> <li>Potential risks will be mitigated</li> <li>Solution will address relevant regulatory guidelines and legal requirements</li> </ul>
Business Context	<p><b>Basic</b> definitions of:</p> <ul style="list-style-type: none"> <li>functional and non-functional requirements</li> <li>key performance indicators</li> <li>user acceptance criteria</li> </ul>	<p><b>Good</b> definitions of:</p> <ul style="list-style-type: none"> <li>functional and non-functional requirements</li> <li>key performance indicators</li> <li>user acceptance criteria</li> </ul>	<p><b>Comprehensive &amp; perceptive</b> definitions of:</p> <ul style="list-style-type: none"> <li>functional and non-functional requirements</li> <li>key performance indicators</li> <li>user acceptance criteria</li> </ul>

Task 1(B) - The Design			
	1-3	4-6	7-9
Effectiveness of Interface	Interface is <b>adequate</b> as a result of <b>reasonably effective</b> use of: <ul style="list-style-type: none"> <li>• layout and white space</li> <li>• visual hierarchies</li> <li>• common conventions</li> </ul>	Interface is <b>good</b> as a result of <b>effective</b> use of: <ul style="list-style-type: none"> <li>• layout and white space</li> <li>• visual hierarchies</li> <li>• common conventions</li> </ul>	Interface is <b>excellent</b> as a result of <b>sophisticated</b> and <b>highly effective</b> use of: <ul style="list-style-type: none"> <li>• layout and white space</li> <li>• visual hierarchies</li> <li>• common conventions</li> </ul>
Decompose problem	<b>Basic</b> decomposition of problems that superficially cover: <ul style="list-style-type: none"> <li>• inputs</li> <li>• processes</li> <li>• outputs</li> </ul>	<b>Good</b> decomposition of problems that <b>superficially</b> cover: <ul style="list-style-type: none"> <li>• inputs</li> <li>• processes</li> <li>• outputs</li> </ul>	<b>Highly effective</b> decomposition of the problems that <b>superficially</b> cover: <ul style="list-style-type: none"> <li>• inputs</li> <li>• processes</li> <li>• outputs</li> </ul>
Logical thinking & conventions	Algorithms produce some correct outcomes as a result of: <ul style="list-style-type: none"> <li>• <b>some</b> precise logic</li> <li>• <b>some</b> appropriate structure and sequence which is likely to be <b>inefficient</b></li> </ul> <p><b>Some</b> effective use of accepted conventions although inconsistencies <b>still exist</b>.</p>	Algorithms produce mostly correct outcomes as a result of: <ul style="list-style-type: none"> <li>• <b>mostly</b> precise logic</li> <li>• appropriate structure and sequence but <b>may lack efficiency</b></li> </ul> <p>Mostly effective use of accepted conventions though some minor inconsistencies <b>may still exist</b>.</p>	Algorithms produce <b>consistently</b> correct outcomes as a result of: <ul style="list-style-type: none"> <li>• <b>precise</b> logic</li> <li>• <b>efficient</b> structure and sequence</li> </ul> <p><b>Effective</b> and <b>consistent</b> use of accepted conventions</p>
Data Requirements	<b>Somewhat</b> appropriate, including (as required): <ul style="list-style-type: none"> <li>• variables</li> <li>• data structures</li> <li>• data types</li> </ul> <p>Naming conventions <b>mostly</b> appropriate but <b>inconsistent</b>.</p> <p>Effective error handling identified for <b>some</b> inputs/processes.</p>	<b>Mostly</b> appropriate, including (as required): <ul style="list-style-type: none"> <li>• variables</li> <li>• data structures</li> <li>• data types</li> </ul> <p>Naming conventions <b>appropriate</b> and <b>mostly</b> consistent.</p> <p>Effective error handling identified for <b>most</b> inputs/processes.</p>	<b>Fully</b> appropriate, including (as required): <ul style="list-style-type: none"> <li>• variables</li> <li>• data structures</li> <li>• data types</li> </ul> <p><b>Thoroughly</b> appropriate and consistent naming conventions are used throughout.</p> <p><b>Thoroughly</b> effective error handling identified for inputs/processes.</p>
Test Strategy	<b>Basic</b> understanding of: <ul style="list-style-type: none"> <li>• how components interrelate</li> <li>• the order in which components should be tested</li> <li>• the types of test that are required.</li> </ul>	<b>Good</b> understanding of: <ul style="list-style-type: none"> <li>• how components interrelate</li> <li>• the order in which components should be tested</li> <li>• the types of test that are required.</li> </ul>	<b>Thorough &amp; detailed</b> understanding of: <ul style="list-style-type: none"> <li>• how components interrelate</li> <li>• the order in which components should be tested</li> <li>• the types of test that are required.</li> </ul>

Quality of Communication	<b>Some</b> effective communication as a result of: <ul style="list-style-type: none"><li>• <b>some</b> appropriate techniques, methods &amp; formats</li><li>• <b>some</b> technical language, <b>appropriate</b> for intended audience</li></ul>	<b>Mostly</b> effective communication as a result of: <ul style="list-style-type: none"><li>• <b>mostly</b> appropriate techniques, methods &amp; formats</li><li>• technical language, <b>mostly</b> appropriate for intended audience</li></ul>	Communication <b>consistently</b> effective as a result of: <ul style="list-style-type: none"><li>• <b>consistently</b> appropriate techniques, methods &amp; formats</li><li>• technical language, <b>consistently</b> appropriate for intended audience</li></ul>
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Task 2 – Developing the Solution (The Solution)				
	1-2	3-4	3-5?	6-8
Functionality	<p>Implemented in a <b>single</b> language with <b>some</b> functionality. Code <b>lacks efficiency</b> with <b>some major errors</b>.</p> <p><b>Some</b> precise logic and structures which result in <b>some</b> correct outcomes.</p>	<p>Implemented with <b>some</b> functionality in at least two languages. Code <b>lacks efficiency</b> with <b>some major errors</b>.</p> <p><b>Sufficient</b> precise logic and structures which result in <b>adequate</b> correct outcomes.</p>	<p><b>Functional</b> code in at least two languages. <b>Mostly efficient</b> with Some <b>minor errors</b>.</p> <p>Uses <b>mostly</b> precise logic and structures which result in <b>mostly</b> correct outcomes.</p>	<p><b>Functional</b> code in at least two languages. Code is <b>consistently efficient</b>.</p> <p><b>Precise</b> logic and structures throughout which result in <b>consistently</b> correct outcomes.</p>
Code Organisation	<p>Maintainable by a third party, but with <b>significant</b> difficulties due to:</p> <ul style="list-style-type: none"> <li>• <b>inconsistent</b> naming conventions.</li> <li>• <b>limited</b> logical organisation</li> <li>• <b>limited</b> informative commenting.</li> </ul>	<p>Maintainable by a third party, but with <b>some</b> difficulties due to:</p> <ul style="list-style-type: none"> <li>• <b>somewhat</b> appropriate naming conventions.</li> <li>• <b>some</b> logical organisation</li> <li>• <b>some</b> informative commenting.</li> </ul>	<p>Maintainable by a third party, with only a few minor difficulties due to:</p> <ul style="list-style-type: none"> <li>• <b>mostly</b> appropriate naming conventions.</li> <li>• <b>mostly</b> logical organisation</li> <li>• <b>mostly</b> informative commenting.</li> </ul>	<p><b>Easily</b> maintainable by a third party with <b>consistently</b> appropriate:</p> <ul style="list-style-type: none"> <li>• naming conventions.</li> <li>• logical organisation</li> <li>• informative commenting.</li> </ul>
User experience	<p><b>Basic</b> user experience through <b>limited</b> effective use of:</p> <ul style="list-style-type: none"> <li>• input handling</li> <li>• user guidance and error messages</li> <li>• outputs</li> </ul> <p><b>Partially</b> robust and effectively handles <b>some</b> common errors.</p>	<p><b>Adequate</b> user experience through <b>somewhat</b> effective use of:</p> <ul style="list-style-type: none"> <li>• input handling</li> <li>• user guidance and error messages</li> <li>• outputs</li> </ul> <p><b>Adequately</b> robust and effectively handles <b>sufficient</b> common and unexpected errors</p>	<p><b>Good</b> user experience through <b>mostly</b> effective use of:</p> <ul style="list-style-type: none"> <li>• input handling</li> <li>• user guidance and error messages</li> <li>• outputs</li> </ul> <p><b>Largely</b> robust and effectively handles <b>most</b> common and unexpected errors</p>	<p><b>Excellent</b> user experience through <b>consistently</b> effective use of:</p> <ul style="list-style-type: none"> <li>• input handling</li> <li>• user guidance and error messages</li> <li>• outputs</li> </ul> <p><b>Fully</b> robust and effectively handles common and unexpected errors</p>
Legal regulations & Standards	<p><b>Some</b> effective application of standards and guidelines in relation to:</p> <ul style="list-style-type: none"> <li>• accessibility</li> <li>• compatibility</li> <li>• legal and ethical considerations</li> </ul> <p><b>Some</b> effective procedures and security controls to ensure confidentiality, integrity &amp; availability.</p>	<p><b>Mostly</b> effective application of standards and guidelines in relation to:</p> <ul style="list-style-type: none"> <li>• accessibility</li> <li>• compatibility</li> <li>• legal and ethical considerations</li> </ul> <p><b>Mostly</b> effective procedures and security controls to ensure confidentiality, integrity and availability.</p>	<p><b>Consistent</b> and effective application of standards and guidelines in relation to:</p> <ul style="list-style-type: none"> <li>• accessibility</li> <li>• compatibility</li> <li>• legal and ethical considerations</li> </ul> <p>Thoroughly effective procedures and security controls to ensure confidentiality, integrity and availability.</p>	

Task 2 – Developing the Solution (Testing & Documentation)			
	1-2	3-4	5-6
Suitability of Test data	<b>Basic</b> understanding of how to effectively test inputs, calculations, validation and processes using test data which makes <b>limited use</b> of: <ul style="list-style-type: none"> <li>• normal data</li> <li>• erroneous data</li> <li>• extreme data</li> </ul>	<b>Good</b> understanding of how to effectively test inputs, calculations, validation and processes using test data which includes: <ul style="list-style-type: none"> <li>• normal data</li> <li>• erroneous data</li> <li>• extreme data</li> </ul>	<b>Thorough and detailed</b> understanding of how to effectively test inputs, calculations, validation and processes using test data which includes: <ul style="list-style-type: none"> <li>• normal data</li> <li>• erroneous data</li> <li>• extreme data</li> </ul>
Iterative Testing	<b>Basic</b> understanding of how errors/problems were identified and how they were rectified for: <ul style="list-style-type: none"> <li>• inputs</li> <li>• calculations</li> <li>• validation and processes</li> </ul> <p>Testing shows evidence of a <b>basic</b> iterative development process.</p>	<b>Good</b> understanding of how errors/problems were identified and how they were rectified for: <ul style="list-style-type: none"> <li>• inputs</li> <li>• calculations</li> <li>• validation and processes</li> </ul> <p>Testing shows evidence of a <b>good</b> iterative development process.</p>	<b>Comprehensive</b> understanding of how errors/problems were identified and how they were rectified for: <ul style="list-style-type: none"> <li>• inputs</li> <li>• calculations</li> <li>• validation and processes</li> </ul> <p>Testing shows evidence of an <b>effective</b> iterative development process.</p>
Iterative Process	<b>Basic</b> iterative development process, including: <ul style="list-style-type: none"> <li>• <b>Limited/superficial</b> records of changes made</li> <li>• <b>Superficial/vague</b> reasons for changes made</li> <li>• <b>Some</b> effective use of versioning</li> </ul>	<b>Adequate</b> iterative development process, including: <ul style="list-style-type: none"> <li>• <b>Adequate</b> recording of changes made</li> <li>• <b>Supported</b> reasons for <b>some</b> changes made</li> <li>• <b>Mostly</b> effective use of versioning</li> </ul>	<b>Effective</b> iterative development process, including: <ul style="list-style-type: none"> <li>• <b>Thorough &amp; detailed</b> recording of changes made</li> <li>• <b>Convincing &amp; perceptive</b> reasons for changes made</li> <li>• <b>Mostly</b> effective use of versioning</li> </ul>

Task 3 (A) – Gathering feedback to inform future developments				
	1-3	4-6	7-8	9-12
Effectiveness of materials	Materials allow for <b>limited</b> quality feedback for different aspects of the prototype.	Materials allow for <b>adequate</b> quality feedback for different aspects of the prototype.	Materials allow for <b>good</b> quality feedback for different aspects of the prototype.	Materials allow for <b>high</b> quality feedback for different aspects of the prototype.
Use of tools	Resulted in feedback that provides <b>some</b> opportunity for evidence-informed further iteration.	Resulted in feedback that <b>mostly</b> provides the opportunity for evidence-informed further iteration.	Resulted in feedback that <b>consistently</b> provides the opportunity for evidence-informed further iteration.	
Effectiveness of communication	<p><b>Sometimes</b> effective for both technical and non-technical audiences. Limited use of appropriate techniques, methods and formats.</p> <p>Limited technical language appropriate for intended audience.</p>	<p><b>Mostly</b> effective for both technical and non-technical audiences. Use of <b>mostly</b> appropriate techniques, methods and formats.</p> <p>Technical language <b>mostly</b> appropriate for intended audience.</p>	<p><b>Effective</b> for both technical and non-technical audiences. <b>Consistent</b> use of <b>appropriate</b> techniques, methods and formats.</p> <p>Technical language <b>consistently</b> appropriate for intended audience.</p>	

Task 3 (B) – Evaluating feedback to inform future developments			
	1-2	3-4	5-6
Effectiveness of assets & content	<p><b>Limited</b> review of the content selected. including <b>superficial</b> consideration of:</p> <ul style="list-style-type: none"> <li>• appropriateness</li> <li>• source validity/reliability</li> <li>• legal and ethical implications</li> </ul> <p><b>Sometimes</b> supported by <b>superficial</b> consideration, comparison and corroboration across multiple sources. -checked? Verified? Delete and just use 'comparison?'</p>	<p><b>Good</b> review of the content selected. including <b>good</b> consideration of:</p> <ul style="list-style-type: none"> <li>• appropriateness</li> <li>• source validity/reliability</li> <li>• legal and ethical implications</li> </ul> <p><b>Mostly</b> supported by <b>good</b> consideration, comparison and corroboration across multiple sources.</p>	<p><b>Comprehensive</b> review of the content selected. including <b>thorough</b> consideration of:</p> <ul style="list-style-type: none"> <li>• appropriateness</li> <li>• source validity/reliability</li> <li>• legal and ethical implications</li> </ul> <p><b>Well</b> supported by <b>effective</b> consideration, comparison and corroboration across multiple sources.</p>
	1-3	4-6	7-8
Project outcomes	<p><b>Basic/superficial</b> evaluation of how well prototype meets:</p> <ul style="list-style-type: none"> <li>• functional and non-functional requirements</li> <li>• key performance indicators (KPIs)</li> <li>• user acceptance criteria</li> </ul> <p><b>Basic/simplistic</b> reasons for future iteration.</p> <p>Supported by <b>limited</b> relevant:</p> <ul style="list-style-type: none"> <li>• selection of examples</li> <li>• consideration of feedback.</li> </ul>	<p><b>Good</b> evaluation of how well prototype meets:</p> <ul style="list-style-type: none"> <li>• functional and non-functional requirements</li> <li>• key performance indicators (KPIs)</li> <li>• user acceptance criteria</li> </ul> <p><b>Good</b> reasons for future iteration.</p> <p>Supported by <b>mostly</b> relevant:</p> <ul style="list-style-type: none"> <li>• selection of examples</li> <li>• consideration of feedback.</li> </ul>	<p><b>Thorough &amp; detailed</b> evaluation of how well prototype meets:</p> <ul style="list-style-type: none"> <li>• functional and non-functional requirements</li> <li>• key performance indicators (KPIs)</li> <li>• user acceptance criteria</li> </ul> <p><b>Convincing &amp; perceptive</b> reasons for future iteration.</p> <p>Supported by <b>entirely relevant &amp; perceptive</b>:</p> <ul style="list-style-type: none"> <li>• selection of examples</li> <li>• consideration of feedback.</li> </ul>