IA Teacher Grading

Criterion A: Planning (6 marks)
The success criteria identified in criterion A will be used in criterion D to evaluate the effectiveness of the product.

Marks	Description
0	The response does not reach a standard described by the descriptors below.
1-2	An appropriate scenario for investigation for an identified client is stated. The rationale for choosing the proposed product is identified. The criteria for evaluating the success of the product are generally inappropriate.
3-4	An appropriate scenario for investigation for an identified client, providing evidence of consultation, is stated. The rationale for choosing the proposed product is partially explained and includes some appropriate criteria for evaluating the success of the product.
5-6	An appropriate scenario for investigation for an identified client, providing evidence of consultation, is described. The rationale for choosing the proposed product is justified and includes a range of appropriate criteria for evaluating the success of the product.

CheckList

Score _____

Identified client
Shows evidence of consultation with client
Proposed project is justified
Why is the product being developed?Is this particular product an effective solution for solving problem?
List of appropriate criteria for evaluating the success of the product
The success criteria are listed in the form of bullet points.

Criterion B: Solution overview (6 marks)

- The student must provide a record of tasks and a design overview that includes an outline test plan.
- The Record of tasks form must be used.
- The record of tasks and design overview must refer to the product proposed in criterion A.

Marks	Description
0	The response does not reach a standard described by the descriptors below.
1-2	The record of tasks and the design overview, including an outline test plan, are limited. From this information it is difficult to see how the product was developed.
3-4	The record of tasks and the design overview, including an outline test plan, are partially complete. They provide a basic understanding of how the product was developed.
5-6	The record of tasks and the design overview, including an outline test plan, are detailed and complete. From this information it is clear how the product was developed.

CheckList

	Record	of tasks	is	detailed	and	complete
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- Provides chronology of the key events in planning, designing, developing, testing and implementing the solution.
- Provides list of other issues that may arise that may affect the development of the solution.

____ Design overview detailed and complete

- Are design methodologies appropriate to the type of product being designed?
 - Structure chart
 - System Flowchart
 - Inputs and Outputs
 - Flowcharts
 - Pseudocode
 - UML Diagram
 - o CRC Cards
- Demonstrates different levels of draft design, such as the overall structure and the internal layout of the product itself.
 - Prototyping
 - Class Structure
 - o Data File Structure

includes outline test pi	an
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- Shows evidence of a testing plan that addresses the main areas of functionality of the product.
- How do you know program works correctly? Is Accurate?
 - o Test data

 Extended	writing shows	clear underst	tanding of hov	v product was	development

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Criterion C: Development (12 marks)

- The student must identify techniques used in developing the product.
- The student must explain the techniques, with screenshots, that were used to develop the product identified in criterion A, explaining why they have been used and why they are adequate for the task.

Marks	Description
0	The response does not reach a standard described by the descriptors below.
1-4	The use of techniques demonstrates a low level of complexity and ingenuity or does not address the scenario identified in criterion A. It is characterized by limited use of existing tools. There is no explanation of why the techniques are used or how they are adequate for the task. Sources are used but are not identified.
5-8	The use of techniques demonstrates a moderate level of complexity and ingenuity in addressing the scenario identified in criterion A. It is characterized by some appropriate use of existing tools. There is some attempt to explain the techniques used and why they are adequate for the task. All sources are identified.
9-12	The use of techniques demonstrates a high level of complexity and ingenuity in addressing the scenario identified in criterion A. It is characterized by the appropriate use of existing tools. The techniques are adequate for the task and their use is explained. All sources are identified.

CheckList

Demonstrates high level of complexity and ingenuity in addressing Criterion A

- Presents a list of the techniques used in developing the product.
- Techniques may include algorithmic thinking, data structures, software tools and user interface. This
 list need not be exhaustive but should illustrate how the major components of the product were
 developed.
 - o Data Structures (array, linked list, stack, queue, binary tree, hash table, etc.)
 - OOP (encapsulation, polymorphism, inheritance)
 - Methods
 - File IO (text files, serialization)

Characterized by appropriate use of existing tools

- Existing tools such as code libraries, software packages are used appropriately.
 - o Foundation classes (String, Scanner, ArrayList, LinkedList, PrintWriter, etc.)
 - Swing classes

____ Techniques are adequate for the task and use is explained

- Provides evidence of algorithmic thinking.
 - o Iteration
 - > Repetition
 - Searching
 - Sorting
 - Recursion
 - Methods

	hots
ExemplaReference	ar data ce information in appendix.
O Referen	oc momation in appendix.
All sources are ide	ntified
Reference mater or modified are a	rial such as templates, program code, applets or other materials that have been used acknowledged.
Score	
Criterion D: Func	tionality and extensibility of product (4 marks)
This criterion assesses th	e extent to which the product:
functions, as evid	denced in the video d and modified by future users as evidenced in the design and development
 can be expanded documentation. 	and modified by future disers as evidenced in the design and development
	and modified by future disers as evidenced in the design and development
	Description
documentation.	, , , , , , , , , , , , , , , , , , ,
documentation. Marks	Description The response does not reach a standard described by the descriptors below. The video shows that the product functions partially. Some expansion and
documentation. Marks 0	Description The response does not reach a standard described by the descriptors below. The video shows that the product functions partially. Some expansion and modification of the product is possible but difficult. The video shows that the product functions well. Some expansion and modification
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Marks 0 1-2 3-4 (This criterion should be	Description The response does not reach a standard described by the descriptors below. The video shows that the product functions partially. Some expansion and modification of the product is possible but difficult. The video shows that the product functions well. Some expansion and modification
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- Criterion E: Evaluation (6 marks)
 The student must evaluate the effectiveness of the product based on feedback from the client/adviser. This must include direct references to the success criteria identified in criterion A.
 - The student must recommend proposals for the future improvement of the product.

Marks	Description
0	The response does not reach a standard described by the descriptors below.
1-2	There is a limited attempt to evaluate the product against the success criteria identified in criterion A. There is limited evidence of feedback from the client/adviser and any recommendations for further improvement are trivial or unrealistic.
3-4	The product is partially evaluated against the success criteria identified in criterion A including feedback from the client/adviser. Recommendations for further improvement of the product are largely realistic.
5-6	The product is fully evaluated against the success criteria identified in criterion A including feedback from the client/adviser. Recommendations for further improvement of the product are realistic.

CheckList
Product is fully evaluated against the success criteria identified in criterion A
Shows feedback from the client/adviser
Recommendations for further improvement of the product are realistic
 Provides feedback and the evaluation of the specific performance criteria to recommend possible future developments to the product. Recommendations explain the benefits of these developments.
Score

Score	
Criterion A	
Criterion B	
Criterion C	
Criterion D	
Criterion E	
Total	