

## Marking Rubric

Student Name: \_\_\_\_\_ / Student ID: \_\_\_\_\_

Marks Achieved \_\_\_\_ / from total 40 marks

Comments:

Section	Poor	Below Basic	Basic	Proficient	Advanced
<b>Use Case Diagrams</b> <i>(x 1.5) – 6 points</i>	<ul style="list-style-type: none"> <li>Simple use case diagram included</li> <li>Incorrect notation is used</li> </ul> <p><b>(zero mark)</b></p>	<ul style="list-style-type: none"> <li>Two use case diagrams are included but they do not include any details, and are inconsistent with the identified pr requirement proposed so</li> <li>Notation us case diagrams has many errors</li> <li>Very few of the major actors are included in the use case diagram</li> </ul> <p><u>For each use case diagram:</u></p> <ul style="list-style-type: none"> <li>Less than 3 actors and less than 10 top level use cases</li> </ul> <p><b>(two marks)</b></p>	<ul style="list-style-type: none"> <li>Two use case diagrams are included are of sufficient detail, consistent with the identified problem,</li> </ul> <p>errors</p> <p>Some of the maj actors are includ the use case dia</p> <p><u>For each use case diagram:</u></p> <ul style="list-style-type: none"> <li>Less than 3 actors and less than 10 top level use cases</li> <li>One extend relationship</li> <li>One include relationship</li> </ul> <p><b>(four marks)</b></p>	<ul style="list-style-type: none"> <li>Two use case diagrams are included, are of sufficient detail, consistent with the identified problems, requirements, and the ed solution.</li> </ul> <p>n used for use case ns has few error f the major actors are the use case</p> <p><u>_____ use diagram:</u></p> <ul style="list-style-type: none"> <li>3 actors but less than 10 top level use cases</li> <li>Two extend relationship</li> <li>Two include relationship</li> </ul> <p><b>(five marks)</b></p>	<ul style="list-style-type: none"> <li>Two use case diagrams are included, are of sufficient detail, consistent with the identified problems, require-ments and the proposed solution.</li> <li>All major actors are included in the use case diagram</li> </ul> <p><u>For each use case diagram:</u></p> <ul style="list-style-type: none"> <li>Correct notation is used with no more than one error</li> <li>3 actors and 10 top level use cases</li> <li>More than 2 extend relationships</li> <li>More than 2 include relationships</li> </ul> <p><b>(six marks)</b></p>

<b>Activity Diagrams</b> <i>(x 1) – 4 points</i>	<ul style="list-style-type: none"> <li>No activity diagram included</li> <li>Incorrect notation is used</li> </ul> <p><b>(zero mark)</b></p>	<ul style="list-style-type: none"> <li>Two activity diagrams are included but they do not include any details, and are inconsistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for activity diagrams has many errors</li> </ul> <p><u>For each activity diagram:</u></p> <ul style="list-style-type: none"> <li>Less than 1</li> <li>No synchro</li> <li>One decision</li> </ul> <p><b>(one mark)</b></p>	<ul style="list-style-type: none"> <li>Two activity diagrams are included are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for activity diagrams has some errors</li> </ul> <p><u>For each activity diagram:</u></p> <ul style="list-style-type: none"> <li>Less than 10 activities</li> </ul>	<ul style="list-style-type: none"> <li>Two activity diagrams are included, are of sufficient detail, consistent with the identified problems, requirements and the proposed solution.</li> <li>Notation used for activity has few errors</li> </ul> <p><u>For each activity diagram:</u></p> <ul style="list-style-type: none"> <li>Exact 10 activities</li> <li>One synchronization (split and join)</li> <li>no decision activities</li> </ul> <p><b>(three marks)</b></p>	<ul style="list-style-type: none"> <li>Two activity diagrams are included, are of sufficient detail, consistent with the identified problems, requirements and the proposed solution.</li> </ul> <p><u>For each activity diagram:</u></p> <ul style="list-style-type: none"> <li>Correct notation is used with no more than one error</li> <li>More than 10 activities</li> <li>Multiple synchronizations (split and join)</li> <li>More than two decision activities</li> </ul> <p><b>(four marks)</b></p>
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<b>Sequence Diagrams</b>  <i>(x 1) – 4 points</i>	<ul style="list-style-type: none"> <li>Simple sequence diagram included</li> <li>Incorrect notation is used (messages, frames)</li> </ul> <p><b>(zero mark)</b></p>	<ul style="list-style-type: none"> <li>Two sequence diagrams are included but they do not include any details, and are inconsistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for sequence diagrams has many errors</li> </ul> <p><u>For each sequence diagram:</u></p> <ul style="list-style-type: none"> <li>Less than 3 domain objects</li> <li>No message</li> </ul> <p><b>(one mark)</b></p>	<ul style="list-style-type: none"> <li>Two sequence diagrams are included are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for sequence diagrams has some errors</li> </ul> <p><u>For each sequence diagram:</u></p> <ul style="list-style-type: none"> <li>Less than 5 domain objects</li> <li>Less than 3 domain objects</li> </ul> <p><b>(two marks)</b></p>	<ul style="list-style-type: none"> <li>Two sequence diagrams are included are of sufficient detail, consistent with the identified problems, requirements and the proposed solution.</li> <li>Messages are in reasonable logics</li> <li>Notation used for sequence diagrams has few errors</li> </ul> <p><u>For each sequence diagram:</u></p> <ul style="list-style-type: none"> <li>Exact 5 domain objects</li> <li>Two opt frames and two alt frames</li> <li>Message notations (max ten)</li> </ul> <p><b>(three marks)</b></p>	<ul style="list-style-type: none"> <li>Two sequence diagrams are included, are of sufficient detail, consistent with the identified problems, requirements and the proposed solution.</li> <li>Messages are in reasonable logics</li> </ul> <p><u>For each sequence diagram:</u></p> <ul style="list-style-type: none"> <li>Correct notation is used with no more than one error</li> <li>More than 5 domain objects</li> <li>More than two opt frames and more than two alt frames</li> <li>Two loop frames</li> <li>All messages notations</li> </ul> <p><b>(four marks)</b></p>
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<b>Domain Class Diagrams</b>  <i>(x 1.5) – 6 points</i>	<ul style="list-style-type: none"> <li>Simple domain class diagrams are included</li> <li>Incorrect notation is used for domain class diagrams</li> </ul> <p><b>(zero mark)</b></p>	<ul style="list-style-type: none"> <li>Two domain class diagrams are included but they do not include any details, and are inconsistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for domain class diagrams has many errors</li> <li>Many errors with multiplicity</li> </ul> <p><u>For each domain class diagram:</u></p> <ul style="list-style-type: none"> <li>Less than 5 classes</li> <li>No association class</li> <li>No instances of generalization/ specialization</li> <li>No whole-part relationships (i.e., aggregation, composition)</li> </ul> <p><b>(two marks)</b></p>	<ul style="list-style-type: none"> <li>Two domain class diagrams are included, are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for domain class diagrams has some errors</li> <li>Some errors with multiplicity</li> </ul> <p><u>For each domain class diagram:</u></p> <ul style="list-style-type: none"> <li>Less than three instances of generalization/ specialization</li> <li>Less than three cases of whole-part relationships (i.e., aggregation, composition)</li> </ul> <p><b>(four marks)</b></p>	<ul style="list-style-type: none"> <li>Two domain class diagrams are included, are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for domain class diagrams has few errors</li> <li>Few errors with multiplicity</li> </ul> <p><u>For each domain class diagram:</u></p> <ul style="list-style-type: none"> <li>5 of the major classes</li> <li>association class, added all classes when specialization</li> <li>Three cases of whole-part relationships (i.e., aggregation, composition)</li> </ul> <p><b>(five marks)</b></p>	<ul style="list-style-type: none"> <li>Two domain class diagrams are included, are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.</li> <li>Correct multiplicity</li> </ul> <p><u>For each domain class diagram:</u></p> <ul style="list-style-type: none"> <li>More than 15 of the major domain classes</li> <li>More than two association class (can add association classes when necessary)</li> <li>More than three instances of generalization/ specialization</li> <li>More than three cases of whole-part relationships (i.e., aggregation, composition)</li> <li>Correct notation is used for domain class diagrams with no more than one error</li> </ul> <p>Note: Assignment requires that the two domain class diagrams represent the system from different aspect points.</p> <p><b>(six marks)</b></p>
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<b>State Machine Diagrams</b>  <i>(x 1.5) – 6 points</i>	<ul style="list-style-type: none"> <li>No state machine diagram included</li> <li>Incorrect notation is used</li> </ul> <p><b>(zero mark)</b></p>	<ul style="list-style-type: none"> <li>Three state machine diagrams are included but they do not include any details, and are inconsistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for state machine has many errors</li> </ul> <p><u>For each state machine diagram:</u></p> <ul style="list-style-type: none"> <li>Less than three major states</li> <li>No transition statements</li> <li>No concurrent paths</li> <li>No composite state</li> </ul> <p><b>(two marks)</b></p>	<ul style="list-style-type: none"> <li>Three state machine diagrams are included are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for state machine diagrams has some errors</li> </ul> <p><u>For each state machine diagram:</u></p> <ul style="list-style-type: none"> <li>Three to five major states</li> <li>One composite state</li> </ul> <p><b>(four marks)</b></p>	<ul style="list-style-type: none"> <li>Three state machine diagrams are included are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.</li> <li>Notation used for state machine diagrams has few errors</li> </ul> <p><u>For each state machine diagram:</u></p> <ul style="list-style-type: none"> <li>Exact six major states</li> <li>transition paths</li> <li>statements</li> <li>concurrent paths</li> <li>composite states</li> </ul> <p><b>(six marks)</b></p>	<ul style="list-style-type: none"> <li>Three state machine diagrams are included, are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.</li> <li>State switches with reasonable logics</li> </ul> <p><u>For each state machine diagram:</u></p> <ul style="list-style-type: none"> <li>Correct notation is used with no more than one error</li> <li>More than six major states</li> <li>Multiple transition paths and statements</li> <li>More than two concurrent paths</li> <li>More than two composite states</li> </ul> <p><b>(six marks)</b></p>
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	Poor	Below Basic	Proficient	Advanced
<b>Report Layout</b>  <i>(x 1) – 5 points</i>	Your report is not of high presentational quality, professional looking. For example: <ul style="list-style-type: none"> <li>• Cover page is not included and pages are not numbered</li> <li>• Overview page is not included and no table of contents</li> <li>• Content is not split into logical sections and headings are not meaningful</li> <li>• Word number does not comply with requirements</li> <li>• Words are not readable in the diagrams / too small font size</li> </ul>		Your report must be of high presentational quality, professional looking. For example: <ul style="list-style-type: none"> <li>• Cover page is present and pages are numbered</li> <li>• Overview page is included and there is a table of contents</li> <li>• Content is split into logical sections and headings are meaningful</li> <li>• The word limit is adherent to</li> <li>• Words are readable in the diagrams / appropriate font size</li> </ul>	
	<b>(Zero, one, or two marks – depending on the quality of the document)</b>		<b>five marks – depending on the quality of the document)</b>	

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