Marking Rubric

Student Name: _____ / **Student ID:** _____   **Marks Achieved ___ / from total 40 marks**

Comments:

Section	Poor	Below Basic	Basic	Proficient	Advanced
Use Case Diagrams *(x 1.5) – 6 points*	• Simple use case diagram included • Incorrect notation is used **(zero mark)**	• Two use case diagrams are included but they do not include any details, and are inconsistent with the identified problem, requirements and the proposed solution • Notation used for use case diagrams has many errors • Very few of the major actors are included in the use case diagram For each use case diagram: • Less than 3 actors and less than 10 top level use cases **(two marks)**	• Two use case diagrams are included are of sufficient detail, consistent with the identified problem, requirements and the proposed solution • Notation used for use case diagrams has some errors • Some of the major actors are included in the use case diagram For each use case diagram: • Less than 3 actors and less than 10 top level use cases • One extend relationship • One include relationship **(four marks)**	• Two use case diagrams are included, are of sufficient detail, consistent with the identified problems, requirements, and the proposed solution. • Notation used for use case diagrams has few errors • Most of the major actors are included in the use case diagram For each use case diagram: • 3 actors but less than 10 top level use cases • Two extend relationship • Two include relationship **(five marks)**	• Two use case diagrams are included, are of sufficient detail, consistent with the identified problems, require-ments and the proposed solution. • All major actors are included in the use case diagram For each use case diagram: • Correct notation is used with no more than one error • 3 actors and 10 top level use cases • More than 2 extend relationships • More than 2 include relationships **(six marks)**

[Version: February 25, 2018]

Activity Diagrams *(x 1) – 4 points*	• No activity diagram included • Incorrect notation is used **(zero mark)**	• Two activity diagrams are included but they do not include any details, and are inconsistent with the identified problem, requirements and the proposed solution. • Notation used for activity diagrams has many errors For each activity diagram: • Less than 10 activities • No synchronization • One decision activity **(one mark)**	• Two activity diagrams are included are of sufficient detail, consistent with the identified problem, requirements and the proposed solution. • Notation used for activity diagrams has some errors For each activity diagram: • Less than 10 activities • No synchronization • One decision activities **(two marks)**	• Two activity diagrams are included, are of sufficient detail, consistent with the identified problems, requirements and the proposed solution. • Notation used for activity has few errors For each activity diagram: • Exact 10 activities • One synchronization (split and join) • Exact two decision activities **(three marks)**	• Two activity diagrams are included, are of sufficient detail, consistent with the identified problems, requirements and the proposed solution. For each activity diagram: • Correct notation is used with no more than one error • More than 10 activities • Multiple synchronizations (split and join) • More than two decision activities **(four marks)**

| **Sequence Diagrams** *(x 1) – 4 points* | • Simple sequence diagram included
• Incorrect notation is used (messages, frames)

(zero mark) | • Two sequence diagrams are included but they do not include any details, and are inconsistent with the identified problem, requirements and the proposed solution.
• Notation used for sequence diagrams has many errors

For each sequence diagram:
• Less than 3 domain objects
• No messages notations

(one mark) | • Two sequence diagrams are included are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.
• Notation used for sequence diagrams has some errors

For each sequence diagram:
• Less than 5 but at least 3 domain objects
• One opt frame and one alt frame
• No messages notations

(two marks) | • Two sequence diagrams are included are of sufficient detail, consistent with the identified problems, requirements and the proposed solution.
• Messages are in reasonable logics
• Notation used for sequence diagrams has few errors

For each sequence diagram:
• Exact 5 domain objects
• Two opt frames and two alt frames
• One loop frame
• All messages notations (max 2 forgotten)

(three marks) | • Two sequence diagrams are included, are of sufficient detail, consistent with the identified problems, requirements and the proposed solution.
• Messages are in reasonable logics

For each sequence diagram:
• Correct notation is used with no more than one error
• More than 5 domain objects
• More than two opt frames and more than two alt frames
• Two loop frames
• All messages notations

(four marks) |

Domain Class Diagrams (x 1.5) – 6 points	• Simple domain class diagrams are included • Incorrect notation is used for domain class diagrams **(zero mark)**	• 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. • Notation used for domain class diagrams has many errors • Many errors with multiplicity For each domain class diagram: • Less than 10 domain classes • No association class • No instances of generalization/ specialization • No whole-part relationships (i.e., aggregation, composition) **(two marks)**	• Two domain class diagrams are included, are of sufficient detail, consistent with the identified problem, requirements and the proposed solution. • Notation used for domain class diagrams has some errors • Some errors with multiplicity For each domain class diagram: • More than/ equal to 10 but less than 15 major domain classes • One association class • Less than three instance of generalization/ specialization • Less than three cases of whole-part relationships (i.e., aggregation, composition) **(four marks)**	• Two domain class diagrams are included, are of sufficient detail, consistent with the identified problem, requirements and the proposed solution. • Notation used for domain class diagrams has few errors • Few errors with multiplicity For each domain class diagram: • Exact 15 of the major domain classes • Two association class, but not added all association classes when necessary • Three instances of generalization/ specialization • Three cases of whole-part relationships (i.e., aggregation, composition) **(five marks)**	• Two domain class diagrams are included, are of sufficient detail, consistent with the identified problem, requirements and the proposed solution. • Correct multiplicity For each domain class diagram: • More than 15 of the major domain classes • More than two association class (can add association classes when necessary) • More than three instances of generalization/ specialization • More than three cases of whole-part relationships (i.e., aggregation, composition) • Correct notation is used for domain class diagrams with no more than one error Note: Assignment requires that the two domain class diagrams represent the system from different aspect points. **(six marks)**

| State Machine Diagrams *(x 1.5) – 6 points* | • No state machine diagram included
• Incorrect notation is used

(zero mark) | • 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.
• Notation used for state machine has many errors

For each state machine diagram:
• Less than three major states
• No transition paths and statements
• No concurrent paths
• No composite state

(two marks) | • Three state machine diagrams are included are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.
• Notation used for state machine diagrams has some errors

For each state machine diagram:
• Three to five major states
• Includes few transition paths and statements
• One concurrent paths
• One composite state

(four marks) | • Three state machine diagrams are included are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.
• Notation used for state machine diagrams has few errors

For each state machine diagram:
• Exact six major states
• Some transition paths and statements
• Two concurrent paths
• Two composite states

(five marks) | • Three state machine diagrams are included, are of sufficient detail, consistent with the identified problem, requirements and the proposed solution.
• State switches with reasonable logics

For each state machine diagram:
• Correct notation is used with no more than one error
• More than six major states
• Multiple transition paths and statements
• More than two concurrent paths
• More than two composite states

(six marks) |

	Poor	Below Basic	Proficient	Advanced
Report Layout *(x 1) – 5 points*	Your report is not of high presentational quality, professional looking. For example: • Cover page is not included and pages are not numbered • Overview page is not included and no table of contents • Content is not split into logical sections and headings are not meaningful • Word number does not comply with requirements • Words are not readable in the diagrams / too small fond size **(Zero, one, or two marks – depending on the number of issues listed)**		Your report must be of high presentational quality, professional looking. For example: • Cover page is present and pages are numbered • Overview page is included and there is a table of contents • Content is split into logical sections and headings are meaningful • The word limit it adherent to • Words are readable in the diagrams / appropriate fond size **(Three, four or five marks – depending on the quality of the document)**	

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