Software Engineering with Objects and Components
Group Project: Deliverable 1
Marking Scheme

Part 1 - Team Information

Tutorial Group (T01-T04)		Tutor's Name	
Tutorial Group's Name		Team: O, P or D	
Team Members			

Part 2 - Individual Marking Scheme

Individual Marking Scheme								
	Estimated Contribution [tick one box only]				Individual Mark [Basic + Bonus + Team Bonus]			
Team Member	U	S	G	E	Basic	Bonus	Team Bonus	Total

U - Unsatisfactory: Some attempt but,contribution very weak due to poor skills, unsatisfactory attendance or other factors. **Note that an unsatisfactory evaluation will result in reduced marks.**

S - Satisfactory: Met all team requirements and contributed ordinary.

G - Good: Above average effort and contribution.

E - Excellent: A sustained and outstanding contribution to team effort.

Part 3 - Deliverable Marking Scheme

Deliverable Marking Scheme		
Deliverable Part	**Questions**	**Marks**
Requirements **Marks Limit: [20/100]**	**Q1.** Did you organise/collect the system requirements by using a Requirements Specification template (e.g., Volere)? Assess the quality of your Software Requirements Specification (SRS) document.	[/ 5]
	Q2. Did you distinguish different types of requirements (e.g., functional or non-functional)? Assess how your SRS identifies different types of requirements.	[/ 5]
	Q3. Do you believe you got most of the system requirements (requirements completeness)? Assess the extent to which you have elicited and gathered requirements from the main sources.	[/ 5]
	Q4. Have you identified/resolved conflicting requirements (requirements correctness)? Assess the extent to which you have resolved conflicting requirements among different types (e.g., functional and non-functional) or across teams.	[/ 5]
Use Cases **Marks Limit: [30/100]**	**Q5.** Did you graphically represent the functional requirements by Use Cases? Assess to which extent your use case diagram captures main system functionalities and actors.	[/ 10]
	Q6. Did you refine the use cases by generalization, include or extend relationships? Assess to which extent you have refined and structured use cases.	[/ 10]
	Q7. Did you use a template for describing use cases? Assess to which extent you have clarified and described use case information (completeness and correctness).	[/ 10]
Class Diagrams **Marks Limit: [30/100]**	**Q8.** Does your class diagram identify the main classes of the system? Assess to which extent your class diagram realizes system use cases.	[/ 10]
	Q9. Did you specify Attributes and Operations for each class? Assess the completeness of class specification.	[/ 10]
	Q10. Did you identify relationships (i.e., Dependency, Association, Aggregation, Composition and Inheritance or Generalization) between classes? Assess the object orientation quality of your class diagram.	[/ 10]
CRC Cards **Marks Limit: [20/100]**	**Q11.** Did you construct CRC cards for your system design? Assess the completeness and correctness of CRC cards.	[/ 10]
	Q12. Did you verify your Class Diagrams? Did you play any use case with the CRC Cards in order to verify your class diagram? Assess the quality and the coverage of your requirements and design verification by CRC cards.	[/ 10]
Deliverable Mark		[/100]

Deliverable 1 Marking Scheme - Instructions

This form is to be used by your team to assess your deliverable 1 and to distribute the mark among your team's individual members. *Please complete and return the form together with your deliverable 1.* This form consists of three parts.

Part 1 - Team Information. This part records your team's details. Please fill in the table in the Part 1 with the relevant information.

Part 2 - Individual Marking Scheme. This part records your team's distribution of the mark among individual team members. The final mark for an individual is the sum of three marks: [Basic + Bonus + Team Bonus]. Basic marks are calculated by a fixed calculation. Bonus marks are only available to individuals and teams who provided a distinguishable contribution. Bonus marks are to be determined **democratically** by the team. **Both, basic and bonus, marks have to be justified and accompanied by supporting cases.** *Note that (i) no final mark of greater than* 100 *will be accepted; and (ii) marks will be checked and adjusted if necessary (3).*

    Basic Mark: The basic mark for each individual is equal to the the **Deliverable Mark** (see Part 3).

    Bonus Mark: The **Bonus Mark** of **5 marks** is available for distribution. Your team should decide, democratically - preferably amicably - whether this bonus mark should be given to **one member** of your team, who provided a distinguishable contribution towards your deliverable. **Note that, if you decide to allocate the bonus mark, you have to provide a supporting statement (involving any relevant technical or individual aspects) about the motivation of your decision.** Otherwise, the bonus mark is 0 for all team members.

    Team Bonus Mark: The **Team Bonus Mark** of **2 marks** is available for distribution. Your team should decide whether to give the team bonus mark to each individual by assessing the overall team work (e.g., performance, collaboration, tack and effort distribution, communication, etc.). **Note that, if you decide to allocate the bonus mark, you have to provide a supporting statement (involving any relevant technical or individual aspects) about the motivation(s) of your decision.** Otherwise, the bonus mark is 0 for all team members.

Part 3 - Deliverable Marking Scheme. This part provides you a marking scheme for your deliverable 1. Your deliverable 1 should consist of four different parts: *Requirements, Use Cases, Class Diagrams* and *CRC Cards*. The Deliverable Marking Scheme in Part 3 shows the maximum mark allocated to each part. You have to assess each part of your deliverable 1. The table provides relevant questions that structure your assessment process. You should assign (part of) the allocated marks for each question. The marks depend on the quality of your work. **Note that you have to justify any allocated mark by answering each corresponding question and providing an assessment supporting your mark allocation.** *You have to justify your mark assignment by answering the questions and proving an assessment in a separate sheet.* The **Deliverable Mark** is the sum of the marks for each part.