Department of Computer Science

CS2002 Software Development and Management

Assessment/Coursework for 2022/23

TABLE OF CONTENTS

Assessment Title	Coursework for CS2002
Module Leader	Dr Giuseppe Destefanis
Distribution Date	18 October 2022
Submission Deadline	20 January 2023
Feedback by	28 February 2023
Contribution to overall module assessment	50%
Indicative student time working on assessment	30 Hours
Word or Page Limit (if applicable)	NA
Assessment Type (individual or group)	Individual

MAIN OBJECTIVE OF THE ASSESSMENT

The main objective of the assessment is for the student to investigate the key software engineering concepts, software modelling and real-world problem solving using recognised methodologies.

DESCRIPTION OF THE ASSESSMENT

You must use the Problem Statement from your Level 2 Group Project (CS2001). The problem statement must be provided in the pdf which you will submit on Wiseflow.

Your tasks

Extremely important! Pre-condition: *You have to submit a PDF generated by Visual Paradigm containing the Problem statement **and** the .vpp file to achieve a D- (pass). If one of these two files is missing, your submission will be considered as **fail**.*

Create a UML Use Case Diagram and Use Case descriptions for all the use cases of the system (LO1-2) (35 marks available for this part).
You have to author at least two non-trivial Use Cases and have to highlight those Use Cases in the submission.

Mark breakdown
*- The diagram contains all the possible actors involved in the system **(10 marks)***
*- The diagram contains all the uses cases necessary for the functionality of the system and the relations among actors and use cases are correct **(15 marks)***
*- All the use case description tables are provided **(10 marks)***

Create a UML Class Diagram of the system (LO1-2) (35 marks available for this part)

Mark breakdown
*-The diagram contains all the classes necessary **(10 marks)***
*- The classes contain the fields and the methods **(10 marks)***

-The relations among classes, cardinalities, type of associations are correct and follow the UML logic ***(15 marks)***

Create two UML Sequence Diagrams which describe the two Use Cases you have authored (LO1-2) (30 marks available for this part).

Mark breakdown
-The diagram contains all the participants involved in the sequence ***(15 marks)***
-The message exchange sequence among participant is logical and correct ***(15 marks)***

Learning Outcomes and Marking Criteria

Learning outcomes for the assessment	Assessment and marking criteria
LO1: Identify, explain, and evaluate the key concepts in software engineering (including architectural and design methodology) LO2: Analyse a real software system from three points of view: the users, the developers and the managers of its development	This coursework contributes to LO1, LO2. The marking scheme is outlined in the above *Description of the Assessment* section.

Format of the Assessment

You have to develop all the diagrams using Visual Paradigm, and you can download the Enterprise edition at this link: https://ap.visual-paradigm.com/brunel-university-london.

The deliverables which need to be submitted are a .vpp file and a .pdf file (a zip folder containing the two files is allowed).

You have to submit the .vpp file and the .pdf file containing all the diagrams and Use Case descriptions (specified in the **Description of the Assessment** section), generated by Visual Paradigm.

Submission Instructions

You must submit your coursework on WISEflow by the **20th of January 2023 at 11 am**. You can follow the link to Wiseflow through the module's section on Blackboard Learn or login in directly at https://uk.wiseflow.net/brunel. The name of your file should follow the normal convention set out in the student handbook, and must therefore include your student ID number (e.g., 0612345.pdf). It can also include the module code (e.g., CS2002_0612345.zip).

Avoiding Plagiarism

Please ensure that you understand the meaning of plagiarism and the seriousness of the offence. Information on plagiarism can be found in the College's Student Handbook.

Late Coursework

The clear expectation is that you will submit your coursework by the submission deadline stated in the study guide. In line with the University's policy on the late submission of coursework (revised in July 2016), coursework submitted up to 48 hours late will be accepted, but capped at a threshold pass (D- for undergraduate or C- for postgraduate). Work submitted over 48 hours after the stated deadline will automatically be given a fail grade (F).

Please refer to the Computer Science Student Handbook, available on Blackboard Learn, for information on submitting late work, penalties applied and procedures in the case of mitigating circumstances.