

**Assessment cover**

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| Module No: | COMP5047 | Module title: | Applied Software Engineering |

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| Assessment title: | Software Engineering of a Modern Computer Application |

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| Due date and time**:** | 23:00pm, 6th Dec. 2024 |

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| Estimated total time to be spent on assignment: | 84 hours per student |

**LEARNING OUTCOMES**

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| **On successful completion of this assignment, students will be able to achieve the module’s following learning outcomes (LOs):** |
| 1. Demonstrate an understanding of the role of requirements analysis and specification in software engineering and to be able to use this knowledge to create use case models and functional models of computer applications. |
| 1. Demonstrate an understanding of the relationship between requirements and design and to be able to apply the knowledge to create structural and behavioural models of computer applications. |
| 1. Critically evaluate and utilise design paradigms of object-oriented analysis and design, component-based design, and service-oriented design. |
| 1. Use software modelling language such as UML and modelling tools in the context of model-driven software engineering. |
| 1. Work in a group to apply the knowledge and skills developed in this module |

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| **Engineering Council AHEP4 LOs assessed** | |
| C3 | Select and apply appropriate computational and analytical techniques to model complex problems, recognising the limitations of the techniques employed |
| C5 | Design solutions for complex problems that meet a combination of societal, user, business and customer needs as appropriate. This will involve consideration of applicable health & safety, diversity, inclusion, cultural, societal, environmental and commercial matters, codes of practice and industry standards |
| C6 | Apply an integrated or systems approach to the solution of complex problems |
| C14 | Discuss the role of quality management systems and continuous improvement in the context of complex problems |
| C16 | Function effectively as an individual, and as a member or leader of a team |

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| **Group ID:** | Group 14 |

**STUDENT NAMES**

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|  | **Student Id:** | **Student Name:** | **Subsystem:** |
| **1.** | 19279855 | Manraj Singh | Service |
| **2.** | 19293435 | Richard Boyle | Customer |
| **3.** | 19293451 | Ross Holme | Operations |
| **4.** | 19252050 | Mark Ikahu | Manager |

**Statement of Compliance *(please tick to sign)***  
I declare that the work submitted is my own and that the work I submit is fully in accordance with the University regulations regarding assessments *(*[*www.brookes.ac.uk/uniregulations/current*](http://www.brookes.ac.uk/uniregulations/current)*)*

**RUBRIC OR EQUIVALENT:**

Marking grid and marking form are available on Moodle website of the module.

**FORMATIVE FEEDBACK OPPORTUNITIES**

1. Discuss your work with your practical class tutor during practical classes;
2. Discuss your work with lecturer and/or practical class tutor in drop-in hours.

**SUMMATIVE FEEDBACK DELIVERABLES**

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| Deliverable content and standard description and criteria |
| Please see attached file of *COMP6030 Coursework Marking and Feedback* for feedbacks on your coursework, which include: |
| 1. Breakdown of marks on each assessment criterion |
| 1. Comments on each aspect of the assessment against assessment criteria |
| 1. Annotations on your submitted work |