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| **Module Title** | Advanced Programming |
| **Module Code** | KF7014 |
| **Academic Year / Semester** | 2024-25 / Semester 1 |
| **Module Leader** | Dr Maria Salama |

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| **ASSESSMENT – Development of microservices-based application** | | | |
| **Reflective Account** | | | |
| **Group** | number | | |
| **Student Name** | | **Student ID** | **Programme** |
| First name Last name | | w123456 | MSc |
| Student 2 | | w123456 | MSc |
| Student 3 | | w123456 | MSc |
| Student 4 | | w123456 | MSc |

\* Complete your details in the cover page and delete this line.

**Words count: \_\_\_\_\_**

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\* Update the Table of Contents after completing your document and delete this line.

# Introduction

(~ 100 words) provide a brief overview and description of the application, explaining its purpose and functionality, and the document contents that will be presented next to prepare the reader for the following sections.

# Reflection on the developed solution

This section is related to the developed solution only.

* 1. Social, ethical, and security concerns

(~ 300 words) describe social, ethical, and security issues related to the developed solution and the data.

* 1. Critical evaluation

(~ 300 words) critically evaluate your product’s inception to completion, i.e. what have been done well, what could have been done better and how. Note that this section is related to the product only. DO NOT include critical evaluation of individual microservices.

# Reflection on the development method

This section is related to the agile development method adopted by the group.

* 1. Agile development method

(~ 300 words) describe the agile development method adopted by the group and reflect how agile principles were applied.

* 1. Sprint Planning, Execution and Reviews

(~ 400 words) (i) Sprint Planning – reflect on the process of planning each sprint, whether the goals were realistic, and whether the backlog well-organised and prioritised; (ii) Task Management – describe how tasks were broken down, assigned, and tracked using tools, as well as reflect on whether and how the team adapted when things did not go according to plan; (iii) Sprint Reviews – reflect on how did the team review and demonstrate work at the end of sprints; and (iv) Iteration and Continuous Improvement – reflect on how the iterative nature of Agile helped or hindered progress, and whether there were improvements noticeable between iterations. You should include any necessary diagrams here, with the Project Plan to be added to Appendix 1.

* 1. Outcome, Results and Areas for Improvement

(~ 400 words) (i) Project success – reflect on the success of the project in meeting its goals, and whether you were able to deliver quality solution; (ii) Future improvements – reflect on what could be improved in future Agile projects and whether there are better practices or tools that could be adopted; and (iii) Lessons Learned – summarise key lessons learned, and how these lessons can be applied to future projects.

# Personal reflections

* 1. Student 1

(500 words for each student) each student should write their own section separately, including: reflection on your own experience in the Agile environment, what you learned about working in Agile, how your own role evolved over time, and how Agile helped in developing any skills.

* 1. Student 2

(500 words for each student) each student should write their own section separately, including: reflection on your own experience in the Agile environment, what you learned about working in Agile, how your own role evolved over time, and how Agile helped in developing any skills.

* 1. Student 3

(500 words for each student) each student should write their own section separately, including: reflection on your own experience in the Agile environment, what you learned about working in Agile, how your own role evolved over time, and how Agile helped in developing any skills.

* 1. Student 4

(500 words for each student) each student should write their own section separately, including: reflection on your own experience in the Agile environment, what you learned about working in Agile, how your own role evolved over time, and how Agile helped in developing any skills.

# References

include references to relevant external documentation or resources.

# Appendix 2 – Project plan

Sprints, tasks and assignments – using any forms, tools or templates adopted by the group.

# Appendix 2 – Logbook of group work

Add all the entries of the logbook (using the template provided) here.

# Appendix 2 – Peer assessment

Add the peer assessment form (using the template provided) for each group member here.