UNIVERSITY OF LINCOLN

Lincoln School of Computer Science

Assessment Item Briefing Document

Title: CMP3111M – Assignment 1	**Indicative Weighting: 60%**

Learning Outcomes:
On successful completion of this assessment item a student will have demonstrated competence in the following areas:

- LO1 synthesise concepts derived from current theories of advanced software engineering
- LO2 analyse the empirical nature of software engineering and the application of empirical methods in software engineering development
- LO3 utilise and evaluate advanced software engineering techniques and processes in the development of a software artefact.

Outline:

As software engineers, our job is not just about programming and writing lines of code, we must also be aware of the larger context in which software and software systems are developed. In order to develop and build an application we must first analyse the problem domain, providing software (and design) solutions for challenges faced within the system or system components to be developed.

Working within a Software Engineering methodology is an important part of being a developer, understanding the roles and responsibilities within a software process allows you to understand the flow of an artefacts development. As such in order to write a critical reflection on the SCRUM process, you need to engage in a SCRUM.

For this assignment you are to work within the constraints of an agile methodology, namely that of **SCRUM**. You will be assigned SCRUM teams and in these teams you have to ensure that each of you contribute to the different roles that exist within the team over the course of the module. However, as is mentioned by the SCRUM process you can assume multiple roles at any one time. Whilst this assessment is an **individually** assessed piece of work, the group work in workshops is there to expose you to the process of SCRUM and enable you to develop your project.

Artefact:

You have been contracted by a large open-source project to make amendments to one of their projects. You need to follow several steps in order to successfully complete the project.

1 – Identify an Open-Source Project to contribute to.
   - A list of possible projects will be provided; however, you are welcome to select your own
   - If you find your own Open-Source project this needs to be approved

2 – Analyse the Project Domain.
   - Carry out ‘Domain Modelling’ of the system

3 – If the project is provided on GitHub clone the Project
- If it's provided by another SVN, or ZIP, make a local copy of the project

4 – Identify what contribution you are to make to the Project.
- Big Fixes
- Additional Features (from the feature request list)
- Documentation Additions
- Etc.

5 – Commit your additions / updates.
- Note, they don't have to be accepted or entered into the main branch.

Deliverable:

This is an individually assessed piece of work and you are asked to submit the following:

1) A log style report that gives the following information:
    a. Details of the Open-Source Project you are working with
    b. Your analysis of the Domain Model
    c. Details of the contributions to the project.
    d. Any Sprint Logs

2) GitHub logs
    a. Branches
    b. Commits
    c. Edits
    d. Adds
    e. Etc.

3) A Critical Reflection
    a. Provide a Critical reflection of the use of SCRUM in the application of **this** project.
        i. Include in this how SCRUM works for contributing to Open-Source
        ii. How SCRUM and the allocation of Roles affected the project
        iii. Your own personal reflection on your contribution to the project and how you found working on an Open-Source project.

Useful Information

This assessment is an individually assessed item. Your work must be presented according to the Lincoln School of Computer Science guidelines for the presentation of assessed written work.

Please make sure you have a clear understanding of the grading principles for this component as detailed in the accompanying Criterion Reference Grid.

If you are unsure about any aspect of this assessment component, please seek the advice of a member of the delivery team.

Submission Instructions

The deadline for submission of this work is included in the School Submission dates on Blackboard.

The submission should be in electronic format as directed by the guidelines for the presentation of assessed written work. Your document must be submitted in PDF format.

DO NOT include this briefing document with your submission.