 Computer Science and Creative Technologies

**Coursework or Assessment Specification**

## Module Details

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| **Module Code** | UFCF85-30-3 |
| **Module Title** | Enterprise Systems Development |
| **Module Leaders** | Chris Simons, Mehmet Aydin |
| **Module Tutors** | As above |
| **Year** | 2019 / 2020 |
| **Component/Element Number** | B:CW1 |
| **Total number of assessments for this module** | 3 |
| **Weighting** | 40% |
| **Element Description** | Group-based demonstration of software development |

## Dates

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| --- | --- |
| **Date issued to students** | 28 October 2019 |
| **Date to be returned to students** | 13 January 2020 |
| **Submission Date** | 5 December 2029 |
| **Submission Place** | Blackboard |
| **Submission Time** | 14:00 hours |
| **Submission Notes** | Compressed code to be submitted via Blackboard. |

## Feedback

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| **Feedback provision will be** | Verbal feedback will be delivered to the student following the demonstrations. Please see section 5. |

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# Section 1: Overview of Assessment

This assignment assesses the following module learning outcomes:

1. *Understand the need for developmental frameworks for developing enterprise systems*
2. *Apply a state-of-the-art developmental framework e.g. Java Enterprise Edition to the team-based design and development of web-based applications*
3. *Discuss in detail the application of the notion of software architecture and software patterns in relation to analysis and design techniques for enterprise- scale software systems development*

The assignment is worth ***40%*** of the overall mark for the module.

This is a group assignment, which requires ***5 people*** to form a group for software development and demonstration.

Working on this assignment will help you to develop your technical development skills and well as your teamwork skills, which aims to improve your employability level by providing a practice of real working environment.

The specifications of this assignment are provided with a bundle of following files:

1. UFCF85-30-3 2019\_20 ESD CW1 Spec.docx (main document)
2. Case Study.docx
3. Marking Matrix.docx
4. Task Delivery Form.docx
5. Peer Assessment Form.docx

You should make sure you downloaded the complete bundle and go through all files.

# Section 2: Task Specification

You (as a group/team of 5 people) are asked to design and implement a web-based software system using the features and functionality of the examples from the course book, the practical classes, demonstrations in the lectures or other materials referred to within the scope of the module.

The assignment is based on the XYZ Driver Association case study, which is detailed in the enclosed file, called **Case Study.docx,** as part of the bundle. Please pay attention to the specifications and list of requirements provided in the file.

You should design and build your software system using JSP/Servlets following the MVC design pattern on Java Enterprise Edition (EE), and deploy to a Glassfish server with a local Java DB Relational database backend.

As a team, you will be required to demonstrate and discuss your working system using NetBeans IDE. Your team will be treated as a unit and any individual member may be required to demonstrate complete knowledge of the system you are presenting.

You are required to develop your ***web-based software system*** in three sprints as follows:

**Sprint 1:**  Task plan and schedule of delivery. This sprint mainly requires (1) working out with planning and scheduling the tasks, (2) making sure the provided DB (or an extended one) is connected and (3) tested with Login function for all user types. Initial deliverables will be assessed on ***Week 8***, which weighs 10% of the overall mark.

**Sprint 2:** Completion of backend architecture and partial completion of front-end user interface. This requires, at least half of the tasks are completed. These tasks are expected to be completion of some model classes, controllers and few viewer classes. Deliverables will be assessed on ***Week 10***. This sprint weighs 30% of the overall mark.

**Sprint 3:** Final and complete delivery, will be assessed on ***Week 12,*** which carries 60% of overall mark.

# Section 3: Deliverables

You are required to submit your group work Sprint-by-Sprint as described above and with more detailed in Case Study document. The final version of the work must be submitted through the link to be provided on Blackboard VLE as a zipped NetBeans project.

Sprint-wise Deliverables:

**Sprint 1:**

1. Task Delivery Form filled for Sprint 1 (**Task Delivery Form.docx**)
2. Project plan including visual materials such as Gantt Chart
3. Demonstrating completed tasks.

**Sprint 2:**

1. Task Delivery Form filled for Sprint 2
2. Updated Project plan
3. Demonstrating completed tasks

**Sprint 3:**

1. Task Delivery Form filled for Sprint 3
2. Complete project zipped and uploaded on BB
3. Demonstrating the complete project
4. Peer Assessment Form (**Peer Assessment Form.docx**).

This form should be filled and confidentially submitted to tutors by everybody, while other deliverables are to be in behalf of the groups.

# Section 4: Marking Criteria

This group project requires multiple delivery stages (Sprints), where each stage is marked independently. Sprint 1 carries 10% of the mark while Sprint 2 and 3 carry 30% and 60%, respectively.

Marking tools are designed into marking matrixes as provided in the file, called “**Marking Matrix.docx**” within the bundle, where each sprint is considered in a separate matrix with more specific criteria and expectations. Please also see more general rules to follow for marking process detailed within Case Study document.

Marking Matrix document also includes a marking table for identifying individual contributions. Individual contributions are broken down following inputs from each member of the groups via Peer Assessment Form, separately provided with the file, called “**Peer Assessment Form.docx**” included in the bundle. The reported inputs by each group member is cross-checked with evidence provided via GitHub and other tools (to be) used.

*You may note that 80% and beyond marks require outstanding excellence in the works, which are expected to exceed the requirements outlined in the Case Study document and should be genuinely exceptional.*

# Section 5: Feedback mechanisms

Feedback will verbally be provided immediately after the demonstration at each stage (Sprint). On your request, you can receive group-based and personalised feedback, written or verbally.