

Cardiff School of Computer Science and Informatics

Coursework Assessment Pro-forma

Module Code: CM6321

Module Title: Emerging Technologies

Lecturer(s): Dr Daniel J. Finnegan, Dr Mark Hall

Assessment Title: Group Report and Demo

Assessment Number: 1

Date Set: Week 7

Submission Date and Time: 9th December 2019 at 9:30am

Return Date: 6th January 2019

This assignment is worth 50% of the total marks available for this module. If coursework is submitted late (and where there are no extenuating circumstances) the following rules apply:

1. If the assessment is submitted no later than 24 hours after the deadline, the mark for the assessment will be capped at the minimum pass mark;
2. If the assessment is submitted more than 24 hours after the deadline, a mark of 0 will be given for the assessment.

Your submission must include the official Coursework Submission Cover sheet, which can be found here:

<https://docs.cs.cf.ac.uk/downloads/coursework/Coversheet.pdf>

Assignment

As part of this module you must work in a team on an industry-provided project making use of technologies you have been introduced to across all modules in this semester. The exact details of the project will be provided by your industry client.

This assignment consists of two parts: Part I is a group report in which you must document the process of developing the project prototype. Part II is a group demo of your prototype to the client.

The group report represents 40% of the coursework mark and must contain the following sections:

- *Team Structure* – in this section you must describe the structure of your team, which team members took on which roles within the project, and how those were assigned.
- *Prototype Architecture* – in this section you must describe your prototype's architecture, its component parts, why you chose the specific technologies for the

parts, and how the different parts of your prototype interact to solve the client requirements.

- *Project Management* – in this section you must document the project management process you have used, what tasks were assigned to which team members at what point, and how you tracked progress on these.
- *Commercial Opportunities* – in this section you must document which, if any, commercial opportunities your software offers. The opportunities must be assessed in relation to both your client and the wider industry.
- *Project Deliverables* – in this section you must document the following aspects
 - Readme – Contains detailed instructions to the client on the steps necessary to install any required libraries, setup any hardware components, and start the prototype
 - Software - Link to the released (binary) software hosted on the university's Gitlab instance.
 - Source-code – Link to the source-code in the version control system you used

The report must be *no longer* than **10 A4 pages in length**.

The group demo represents 60% of the coursework mark. It will be given to the client and module lecturers but will only be marked by the module lecturers. The date of the demo is the same as the submission date for this coursework during the regular teaching time. Each member of the group **MUST** contribute to the demo. The demo must cover the following aspects:

- Brief explanation of the project aims, specifying how the implemented prototype meets these aims.
 - Explanation of the chosen architecture and technologies. Technical detail is expected.
 - Demonstration of the working prototype.
 - Client-driven Questions and Answers
-

Submission Instructions

You must submit the cover sheet and report as per the table below via Learning Central

Description		Type	Name
Cover sheet	Compulsory	One PDF (.pdf) file	[group name].pdf
Report	Compulsory	One PDF (.pdf)	[group name].pdf

Staff reserve the right to invite students to a meeting to discuss coursework submissions

Learning Outcomes Assessed

The following learning outcomes are assessed by this coursework:

- Understand Emerging Technologies and their impact on Commercial Software and End Users
- Design and develop a prototype product or service to exploit the commercial opportunities identified

Criteria for assessment

The following criteria are used to assess the two parts of this coursework:

Report (40%)					
	Team Structure (10%)	Prototype Architecture (30%)	Project Management (20%)	Commercial Opportunities (30%)	Project Deliverables (10%)
1 st (70 – 100%)	The section is detailed, makes references to relevant content from the other sections, and is supported by references to external materials				The readme is detailed and provides support to simplify the setup process
2.1 (60 – 69%)	The section is detailed and free of spelling / grammar mistakes				The readme provides enough detail that a competent individual may execute the code.
2.2 (50 – 59%)	The section gives an overview and parts of the section are detailed				All deliverables are provided, but the readme is rudimentary
3 rd (40 – 49%)	The section gives an overview over the required content, but no details				Not all deliverables are provided
Fail (0 – 39%)					

Group Demo (60%)				
	Project Aims (10%)	Architecture & Tech (10%)	Demo (40%)	Questions & Answers (40%)
1 st (70 – 100%)	The aspect of the project is explained in detail and shows an awareness of the weaknesses of the chosen approaches			Answers are detailed and demonstrate an awareness of alternative solutions
2.1 (60 – 69%)	The aspect of the project is explained in detail and is clearly understandable			Answers are detailed
2.2 (50 – 59%)	The demo gives an overview over the aspect and details for some aspects			Answers cover all aspects of the questions
3 rd (40 – 49%)	The demo briefly touches on the aspect, but no details are given			Answers are brief and only cover parts of the questions
Fail (0 – 39%)	The demo does not cover the aspect, or the content are not relevant to the aspect			No questions are answered, or the answers do not address the questions

Feedback and suggestion for future learning

Feedback on your coursework will address the above criteria. Feedback and marks will be returned by 6th January 2019 in written form via Learning Central. You will also receive formative feedback throughout the project phase.

Feedback from this assignment will be useful for your CM6331 Large Team Project