CM20314 - Experimental Systems Project

Deliverable 3: Testing and Implementation Specification

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Set: Monday 06/02/2023 (week 19) Due: Presentations in the weeks of 20/03 and 27/03 (weeks 25 and 26) Deliverables Friday 31/03/2023 (week 26), 8pm
Percentage of overall unit mark: 22.5%
Submission Location: Group submission via Moodle Submission Components: Presentation Slides, Presentation Appendices (optional), Demo Video, Code Files: PDF named 'Group # - Presentation Slides' PDF named 'Group # - Presentation Appendices' (if any) PDF named 'Group # - Demo Video Link' PDF named 'Group # - Code Repository Link'
Anonymous Marking: No

1 Overview

For CM20314 your overall project involves the proposal, specification, design, implementation, testing and evaluation of a novel interactive system. This deliverable focuses on the presentation of how you moved forward from your previous project stages to planning your testing and implementing your proposed solution, as well as what are your plans moving forward. You will also have the opportunity to demonstrate the functionality of your latest system iteration in a relevant video.

2 The Presentations (17.5%)

A significant part of the third deliverable for CM20314 involves group presentations. Each presentation should include:

- A brief introduction/recap to the chosen domain, the challenge/issue addressed and why is it important, the aim of your proposed system, and the main stakeholders who benefit from it.
- A brief slide, video, or live demonstration of your system (this is separate to the standalone demo video deliverable that will be discussed later on)
- A brief explanation of how tasks were distributed among group members. We encourage you to do this in a way that maximises the peer learning potential. For example, if some members are more skillful programmers than others, it would be excellent to use some mixed-ability pair programming, as both the more and less-skilled programmers would benefit. Try to find a way to allow everyone to learn and to contribute.
- A description of your test-driven verification strategy. How you coordinated, run, analysed, and responded to your test results. Your testing plans should reflect your requirements and your design work, and ideally will be considered before and at every iteration of your implementation stage.
- A listing of evidence of the testing and debugging process (you may include unit tests, additional test runs etc. as Presentation Appendices).
- A description of your implementation process (e.g. your approach, tools, version control, architecture, frontend and backend tech stack, limitations) showing your rationale for choices when relevant.
- A critical reflection of the process followed by the team.
- A brief description of the next steps of your project towards evaluation.

  You will not have time to cover everything you have done, so you should try to demonstrate that what you have done is interesting and importantly that it fulfills your requirements and user needs (therefore a good solution to your proposed problem). All group members must present (think one/two slides, or a short demo per person).

The presentations will take place in weeks 25 and 26 of the second semester just before the Easter break. The exact dates and times for the individual groups will be confirmed as soon as possible. Each session will involve 2 groups, the unit leaders and tutors. Within these sessions each group will talk for 15-20 minutes, leaving 5-10 minutes for questions. There is a very strict 25-minute time limit per group due to room scheduling. Groups must arrive 5 minutes past the hour to set up in order to avoid delays. Like in scientific conferences groups will be given a 5- and 1-minute warning to ensure that the time is utilised fairly. The presentations will not be recorded.

The marking criteria for the presentation component are as follows:

Criteria	Percentage of Presentation component
Presentation skills and preparation	12.5%
Time management and Q&A	10%
Introduction	7.5%
Demonstration of system	12.5%
Teamwork and task distribution	5%
Test Plan/Testing	22.5%
Implementation	17.5%
Critical Reflection	7.5%
Conclusion and future steps	5%
Total	100%

3 The Demo Video (5%)

This deliverable must include a 5-minute video presentation of your system. This could illustrate key features, use cases and interactions within the context of use. The video (or parts of it) can be used during your presentations. If you choose to live demo your system instead, you still need to submit a video as an additional submission. Helpful guidance on how to produce such videos can be found here: https://chi2020.acm.org/guide-to-a-successful-video-submission/

The demo video must be uploaded on Re:View in the Y2223-CM20314 [assignments] folder. Your Demo Video Link submission on Moodle must be a PDF file containing the Re:View uploaded file link. In this PDF you can include if you wish "I consent for this video to be used for demonstration purposes and/or as an exemplar for future cohorts of the unit" for your video to be used as part of the project preparation for future iterations of the unit.

The marking criteria for the video component are as follows:

Criteria	Percentage of Video component
Production quality	20%
Demonstration of key features	40%
Use cases	40%
Total	100%

4 Additional Deliverables

The groups must submit their Presentation Slides and all other materials used in creating the presentations as Presentation Appendices. In addition to the presentation materials used and the demo video link, the groups must also submit a PDF containing a Code Repository Link. In this project the code will not be judged in terms of quality, however it would be used as proof that the testing and implementation stages were performed as the groups suggested. All deliverables must be uploaded on Moodle on or before the *Due* date.

5 Group Contribution Form

In addition to your report, please submit a separate PDF with a Group Contribution Form as described in a separate document "CM20314 - Group Contributions and the Group Contribution Form (GCF)".

6 Academic Integrity

Your work will be checked to ensure that you have not plagiarised. For more information about the plagiarism policy at the University see: https://library.bath.ac.uk/referencing/plagiarism

Remember that published work that you refer to in your report should be clearly referenced in your text and listed in a bibliography section given at the end of your report. For more information see, https://library.bath.ac.uk/referencing/new-to-referencing

7 Feedback

Formative feedback on your work will be offered throughout the duration of the coursework:

- During your tutorials the tutors will be available to answer questions and offer guidance. Please note that tutors will not be able to make decisions on behalf of your group about the course of the project. They are there to discuss your ideas and offer advice.
- Use Moodle forums to post general questions or questions specific to your project. The unit convener will respond to these as well as your peers. This way we will create a repository of knowledge that will be available to all.

You will receive summative feedback on your work within 3 semester weeks of the submission deadline. The feedback will discuss your performance based on the criteria for marking, including what you did well and how specific sections could have been improved.