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# Analysis of Requirements and UCD (CSI\_4\_RAU) Coursework 2: Assignment Specification

Read this coursework specification carefully, it tells you how you are going to be assessed, how to submit your coursework on-time and how (and when) you’ll receive your marks and feedback.

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| --- | --- |
| **Module Code** | CSI\_4\_RAU |
| **Module Title** | Requirements Analysis and UCD |
| **Lecturer** | Maria Lemac |
| **% of Module Mark** | 70% |
| **Distributed** | 07/03/2022 |
| **Submission Method** | Submit online via this Module’s Moodle site |
| **Submission Deadline** | 12 May 2022 at 17:00 |
| **Release of Feedback & Marks** | Feedback and provisional marks will be available in the Gradebook on Moodle within 15 working days |

## Coursework Aim:

There are two parts to this assignment:

Part 1: **UML** **Modelling Part**

Part 2: **UCD Part**

**You need to create and submit one report for both parts.**

## Part 1: UML Modelling

This part of the assignment is a UML modelling exercise. You will be assessed on your ability to construct UML diagrams (using Visual Paradigm) that capture the stakeholders’ requirements as expressed in a short scenario.

Your tutor will assign you a scenario that you need to analyse and extract the requirements from it. The scenario gives an indication of who the users are and what they will be able to do by using the software. Think of these descriptions as an initial fact-finding meeting with the clients. Therefore, some finer details may be missing. *For this reason, you should highlight any ambiguous areas or issues and make assumptions where appropriate, clearly stating this in your report.*

Your job is to capture those requirements using UML tools (diagrams, tables etc.) and write narrative where indicated. Unlike in real-life you cannot ask the stakeholders questions. You should imagine that the purpose of your report is to capture what was said at the initial meeting.

**The main area\* of your report should consist of the following:**

* A stakeholder Identification Table (external stakeholders are not included here)+ Stakeholder Onion Diagram + onion diagram supporting narrative
* A set of User Stories for each stakeholder in the scenario (full format)
* A Use Case Diagram (or one diagram for each user) + supporting narrative
* 2 Full Use Case Descriptions developed for most complex Use Cases in your digram
* 2 Activity Diagrams developed for the Use Case Descriptions + supporting narrative
* A Domain Class Diagram + supporting narrative

You must present your work in the formal report format :

* Title page (containing the course, the module name, the assignment title including your scenario title, your tutor name, your data number & your full name) followed by a content page
* Structure the report appropriately (introduction, main area with all the required parts\*)
* Captions for all figures (tables, diagrams) need to be included
* Footer must contain page numbers

***(This part of the assignment is 70% of the assignment mark)***

## Part 2: User Centred Design (UCD)

In this part of the assignment you need to create user profiles for the direct users of your software and design an interface for the same software you have analysed in the modelling part (previous part). You will be assessed on the following:

1. **Your ability to design a software interface** (using wireframes software) **following the usability principles**
2. **Describing how you have followed the following core usability principles in your design:** (suggested number of pages is 2 pages max for this description)

* Consistency
* Visibility (clues how something works or how to use it)
* Mapping (between controls and their effect)
* Feedback
* Learnability
* Efficiency
* Navigation

You need to briefly explain how you have addressed each of these areas in your design.

**To summarise, this part of the assignment needs to contain the following:**

* Wireframes of your design
* Explanations of how you have addressed usability principles in your design

***(This part of the assignment is 30% of the assignment mark)***

**Both parts of the assignment need to be in the same report and submitted as one document/file to Moodle**

## Coursework Details:

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| **Type:** | Report (one report within one file) |
| **Word Count:** | As a guide, aim for [2500-3000 words]. The maximum word limit is [3000 words].  Footnotes will not count towards word count totals but must only be used for referencing, not for the provision of additional text. The bibliography will not count towards the word total.  You should not exceed the word limit |
| **Presentation:** | * Work must be referenced, and a bibliography provided * Work must be submitted as a Word document (.doc/docx) or a PDF * Course work must be submitted using Arial font size 11 (or larger if you need to), with a minimum of 1.5 line spacing * Your student number must appear at the front of the coursework. Your name must **not** be on your coursework. |
| **Referencing:** | Harvard Referencing should be used, see your [Library Subject Guide](https://libguides.lsbu.ac.uk/subjects/home) for guides and tips on referencing. |
| **Regulations:** | Make sure you understand the [University Regulations](http://www.lsbu.ac.uk/__data/assets/pdf_file/0008/84347/academic-regulations.pdf) on expected academic practice and academic misconduct.Note in particular:   * Your work must be your own. Markers will be attentive to both the plausibility of the sources provided as well as the consistency and approach to writing of the work. Simply, if you do the research and reading, and then write it up on your own, giving the reference to sources, you will approach the work in the appropriate way and will cause not give markers reason to question the authenticity of the work. * All quotations must be credited and properly referenced. Paraphrasing is still regarded as plagiarism if you fail to acknowledge the source for the ideas being expressed.   **TURNITIN:** When you upload your work to the Moodle site it will be checked by anti-plagiarism software. |

## Learning Outcomes

This coursework partially assesses the following learning outcomes for this module:

* Use UML modelling tools and techniques to create graphical representations of user, data and processes requirements
* Discuss and evaluate the human, social and management issues associated with information systems development
* Describe the design characteristics of software artefacts
* Write reports supported by academic reading and argument
* Demonstrate personal and team management skills including presentation and formal report writing

## Assessment Criteria and Weighting

LSBU marking criteria have been developed to help tutors give you clear and helpful feedback on your work. They will be applied to your work to help you understand what you have accomplished, how any mark given was arrived at, and how you can improve your work in future.

**Marking Scheme**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Criteria** | **10** | **9** | **8** | **7** | **6** | **5** | **4** | **3** | **2** | **0** |
| **1. Stakeholder Identification / Completion of onion diagram / Supporting narrative** | An exceptional set of stakeholders showing exceptional understanding of the system; appropriately located in an onion diagram | A comprehensive set of stakeholders showing exceptional understanding of the system; appropriately located in an onion diagram | A complete set of stakeholders that goes beyond those implicit in the scenario are identified | A very good set of stakeholders that goes beyond those implicit in the scenario are identified | A good set of stakeholders identifying both implicit and explicit within the scenario are identified | Key stakeholders both implicit and explicit within the scenario are identified. Some stakeholders are appropriately located in an onion diagram | A basic set of stakeholders and/or spurious or inappropriate stakeholders identified. Some Stakeholders inappropriately located in an onion diagram | Some incomplete information provided | Hardly any information provided | No information provided |
| **2. User Story Format and User Story Application** | An exceptional application of all appropriate elements of a user story. All stakeholder’s requirements are captured in a exceptional set of user stories | A comprehensive application of all appropriate elements of a user story. All stakeholder’s requirements are captured in a comprehensive set of user stories | All appropriate elements of a user story used with minimal imprecisions  Majority of stakeholder’s requirements are captured in a comprehensive set of user stories | All appropriate elements of a user story used with minor imprecisions  Majority of stakeholder’s requirements are captured in a comprehensive set of user stories | Most of the appropriate elements of a user story used. Most of stakeholder’s requirements are captured. | Main user stories are constructed using a recognised template. Some requirements of each stakeholder have been captured. | Some attempt but format not followed or not followed consistently. Some attempt but not every stakeholder included or some captured stories are incorrect. | Some incomplete information provided | Hardly any information provided | No information provided |
| **3. Use of use case diagram notation and Scenario interpretation in diagrams / Use Case Descriptions /** Extra marks for critical, evaluative supporting narrative demonstrating understanding | Use case diagrams provide a exceptional and insightful set of views of systems use. Appropriate use of notation. Use case descriptions provide a comprehensive and insightful set of views of systems use. | Use case diagrams provide a comprehensive and insightful set of views of systems use. Appropriate use of notation. The use case descriptions are comprehensive and accurately describe requirements in the scenario with minor omissions. | The use case diagrams are complete and accurately represent requirements in the scenario with minor omissions. A complete, error-free and appropriate use of notation. The use case descriptions accurately represent all the main usage requirements in the scenario. | The use case diagrams are complete and accurately represent requirements in the scenario with some omissions. A complete, error-free and appropriate use of notation. The use case descriptions fairly accurately represent all the main usage requirements in the scenario. | The use case diagrams accurately represent all the main usage requirements in the scenario. A complete and appropriate use of notation with some minor inaccuracies. The use case descriptions accurately represent the core use of the system. | The use case diagrams accurately represent most of the main use of the system. Simple diagrams with reasonable use of notation with some errors. The use case descriptions accurately represent the basic use of the system. | The use case diagrams provide a poor or misleading interpretation of the use of the system. Poor use of notation with obvious errors and mistakes. The use case descriptions provide a poor or misleading interpretation of the use of the system. | Some incomplete information provided. | Hardly any information provided | No information provided |
| **4. Activity Diagram - Use of notation and Scenario interpretation /** Extra marks for critical, evaluative supporting narrative demonstrating understanding | Exceptional error-free presentation with extensive appropriate use of notation. Activity diagrams provide a comprehensive and insightful set of views of systems use | Comprehensive error-free presentation with extensive appropriate use of notation. Activity diagrams provide a comprehensive and insightful set of views of systems use | A complete error-free and appropriate use of notation. The Activity diagrams accurately represent all the usage requirements in the scenario | A complete and appropriate use of notation The Activity diagrams accurately represent almost all the usage requirements in the scenario | A complete and appropriate use of notation with some minor inaccuracies. The Activity diagrams accurately represent all the main usage requirements in the scenario | Simple diagrams with reasonable use of notation with some errors. The Activity diagrams accurately represent the basic use of the system | Poor use of notation with obvious errors and mistakes. The Activity diagrams provide a poor or misleading interpretation of the use of the system | Some incomplete information provided | Hardly any information provided | No information provided |
| **5. Domain Class -Use of notation and Scenario interpretation /**Extra marks for critical, evaluative supporting narrative demonstrating understanding | Exceptional error-free presentation with extensive appropriate use of notation. Class diagrams provide a exceptional and insightful set of data requirements in the scenario. | Comprehensive error-free presentation with appropriate use of notation. Class diagrams provide a comprehensive and insightful set of data requirements in the scenario. | A complete error-free and appropriate use of notation. The Class diagrams accurately represent data requirements in the scenario. | A complete almost error-free and appropriate use of notation. The Class diagrams accurately represent data requirements in the scenario. | A complete and appropriate use of notation with some minor inaccuracies. The Class diagrams accurately represent all the main usage requirements in the scenario with some minor inaccuracies | Simple diagrams with reasonable use of notation with some errors. The Class diagrams accurately represent the basic use of the system | Poor use of notation with obvious errors and mistakes. The Class diagrams provide a poor or misleading interpretation of the use of the system | Some incomplete information provided | Hardly any information provided | No information provided |
| **6. Design an interface using wireframes software** | Exceptionally well laid out structure of the interface using wire frames with a comprehensive set of frames | Exceptionally well laid out structure of the interface using wire frames with a complete set of frames | An excellent laid out structure of the interface using wire frames with a complete set of frames | An excellent laid out structure of the interface using wire frames with a good set of frames | A very well laid out structure of the interface using wire frames with a good set of frames | A well laid out structure of the interface using wire frames | A simple laid out structure of the interface using wire frames | Some incomplete information provided | Hardly any information provided | No information provided |
| **7. Address the core usability principles in your design** | Exceptionally comprehensive explanations of how the core principles were followed | Exceptionally comprehensive explanations of how the core principles were followed. | Comprehensive explanations of how the core principles were followed and applied. | Complete explanations of how the core principles were followed and applied. | Very good explanations of how the core principles were followed and applied. | Good explanations of how the core principles were followed and applied. | Brief explanations of how the core principles were followed and applied. | Some incomplete information provided. | Hardly any information provided | No information provided |

## How to get help

We will discuss this Coursework Specification in class. However, if you have related questions, please contact me [name and email] as soon as possible.

## Resources

List resources such as background reading, templates, samples, tools, videos, links, etc

Quality assurance of coursework specifications

Coursework specifications within CSI division go through internal (for new modules with 100% coursework also through external) moderation. This is to ensure high quality, consistency and appropriateness of the coursework as well as to share best practice within the CSI division.

Details of the moderators for this coursework specification are below:

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| --- | --- |
| **Moderated (internal)** | [Name, date] |
| **Moderated (CSI lead)** | [Name, date] |
| **Signed off by (HoD/DHoD)** | [Name, date] |