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ICT115

Introduction to

System Design

Task 3

**Semester 2, 2023**

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| **Assessment and Submission Details** |
| **Marks: 40% of the Total Assessment for the Course** |
| **Due Date: 9:00am Thursday, 26th October 2023** |
| **Word Count – approx. 1500** |
| **Submission Online – Individual Report** |

**DO NOT SUBMIT THE ASSIGNMENT TO THE COURSE COORDINATOR OR TUTOR.**

The assignment will be marked out of a total of 100 marks. Once marked, **ALL**

assignments will be checked for plagiarism and/or collusion between individuals.

Refer to your Course Outline or the Course Web Site for a copy of the “Student Misconduct, Plagiarism and Collusion” guidelines. [Academic Integrity Information.](https://www.usc.edu.au/learn/student-support/academic-and-study-support/online-study-resources/academic-integrity)

***Note: Each student MUST be able to produce a copy of their assignment and this copy MUST be produced within 24 hours of it being requested by the Course Coordinator. Failure to produce the second copy of the assignment when requested may result in loss of marks or a fail grade for the assignment.***

Requests for an extension to an assignment extension **MUST** be made prior to the date of submission and requests made on the day of submission or after the submission date will only be considered in exceptional circumstances.

### Case Study: Watch Exchange

Watch Exchange is a watch seller for watch enthusiasts who sells both new and authenticated secondhand watches. They focus on brands such as Rolex, Omega, IWC and Zenith. In new watches they focus on watch models that are in high demand and normally have a very limited stock. They also may act as an agent for a client to search out available watches, authenticate and negotiate the purchase of both new and secondhand watches. In this case Watch Exchange charge a $500 activity fee and a total of 20% of the purchase price as a commission. For secondhand watches, they may either purchase the watch and then sell on their own account or sell the watch on behalf of the client taking a 25% commission on the sale. Clients may also place a specific watch on a list which means they are informed if one becomes available, but this list does not incur the activity fee. Clients may make an appointment to come into the Watch Exchange premises or complete a transaction online. Watch Time hold records of all watch transactions and offer a valuation and authentication service for watches. Data giving details on how a watch is authenticated and client must be held on the system. The authentication service is carried out by the Watch Exchange owner James Terry, two other watch experts Harry Wong and Joe Wright also work for Watch Exchange. Watch Exchange also offer insurance and a secure storage facility for watch collections providing the watches are insured with them. Watch Exchange, are growing quickly with clients from across the globe and are looking for an integrated system to handle their business.

Selling such high value items, the management team feel overwhelmed and have asked outside consultants Pace IT Consultants, to come and assist with project planning. You are one of the consultants.

**Your task is to prepare a project report on how you plan to manage this project. Please include the following sections in the main body of the report. Standard report structure must be adhered to.**

### Project Report Structure

1. Project Background which includes the following sub-sections

* Introduction/ Business case

1. Development strategy
   * Describe the best agile development strategy and the runner up agile strategy for a Watch Exchange system using examples from the case study. You need to recommend a strategy complete with a justification for the chosen strategy.
2. Modelling

You can use an application to draw the models or neatly hand draw.

* + Using a table with the column headings like the example below. List all the Use Cases you identify in the case study.

|  |  |  |  |
| --- | --- | --- | --- |
| Subsystem | Use Case | Use Case description | Actor |
|  |  |  |  |
|  |  |  |  |

* + Draw the Use Case Diagram for one of the Watch Exchange subsystems

1. Write a paragraph of what you would consider important in a data retention and disposal strategy for Watch Exchange, including why it might be important for Watch Exchange to have and implement this policy. giving examples.
2. Conclusion and recommendations

**Assignment Requirements and Deliverables**

Your report should be approximately one thousand five hundred (1,500). I will not penalise on word count, but I will deduct marks for lack of information or lack of clarity and conciseness in the writing.

The report is to be prepared as a single Microsoft Word document. Appropriate referencing is required, both in-text and reference list.

## Submission

The completed assignment is to be submitted by TurnItIn on or before the due date.

The assignment will be assessed according to the marking sheet (Appendix A). Late submission of the assignment will result in the maximum deductions of points as per USC School policy for each day late (including weekends).

[USC Assessment Policy](https://www.usc.edu.au/explore/policies-and-procedures/assessment-courses-and-coursework-programs-procedures)

## Assignment Return and Release of Grades

Assignment grades will be available on the course learning management system.

Where an assignment is undergoing investigation for alleged plagiarism or collusion the grade for the assignment and the assignment will be withheld until the investigation has concluded.

## Assignment Guidelines

This assignment will take significant time to complete and will require a good understanding of the systems analysis material for successful completion. It is imperative that students take heed of the following points in relation to doing this assignment:

1. It would pay to start this assignment early.
2. Ensure that you clearly understand the requirements for the assignment – what must be done and what are the deliverables.
3. If you do not understand any of the assignment requirements – **ASK** your workshop tutor.
4. Each time you work on any aspect of the assignment reread the assignment requirements to ensure that what is required is clearly understood.

# Appendix 1

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| **ICT115 Task 2 – Introduction to Systems Analysis Rubric** | | | | | |
| **Criteria** | **High Distinction (85-100%)** | **Distinction (75-84%)** | **Credit (65-74%)** | **Pass**  **(50-64%)** | **Fail** |
| **(10%) 1**.  Format report to clearly communicate case study design requirements | **10 to >8.4 pts**  **High Distinction**  Perceptive - Very well set out report format with title page, headings, page numbering, references, introduction. Polished, clear and logical communication to executive audience. | **8.4 to >7.4 pts**  **Distinction**  Accurate - Nicely set out report format with title page, headings, page numbering, references, introduction. Good clear and logical communication to executive audience. | **7.4 to >6.4 pts**  **Credit**  Satisfactory - Satisfactory report format with title page, headings, page numbering, references, introduction. Good communication to executive audience. | **6.4 to >4.9 pts**  **Pass**  Adequate - Basic report format. Adequately appropriate communication to executive audience | **4.9 to >0 pts**  **Fail**  Inaccurate - Poorly formatted and unclear report. |
| **(20%) 2**.. Introduction/ business case statement | The business case presents well-articulated and informed arguments that are persuasive and convincing. The business case offers significant insight into the justification for the project. Introduction is concise and clearly sets out the background to the system project. | The business case presents arguments that are persuasive and offer insight into the justification for the project. Introduction is concise and sets out the background to the system project | The business case presents arguments that are offer insight into the justification for the project. Introduction sets out most of the background to the system project. | The business case presents arguments that support the project. Introduction sets out some background to the system project. | The business case presents arguments that do not directly support the project. Introduction is unclear or missing. |
| **(25%)**. 3. System development strategy description and justification | Clear and concise description of two agile SDLC. The justification for the chosen development strategy is well thought out demonstrating excellent application of knowledge to the case study. | Clear and concise description of two agile SDLC. The justification for the chosen development strategy is well thought out demonstrating good application of knowledge to the case study. | Good description of two agile SDLC. The justification for the chosen development strategy demonstrating good application of knowledge to the case study. | A description of two agile SDLC is presented. The justification for the chosen development strategy demonstrating some application of knowledge to the case study. | Some description of agile SDLC. The justification for the chosen development strategy is missing or does not demonstrate application of knowledge to the case study. |

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| (20%) 4  Modelling | Demonstrates excellent understanding of modelling techniques and notation. Descriptions and models demonstrate an excellent understanding of the case study and case study implications | Demonstrates good understanding of modelling techniques and notation. Descriptions and models demonstrate a good understanding of the case study and case study implications. | Demonstrates understanding of modelling techniques and notation. Descriptions and models demonstrate a understanding of the case study and case study implications. | Demonstrates some understanding of modelling techniques and notation. Descriptions and models demonstrate some understanding of the case study and case study implications. | Modelling techniques and notation are used with errors. Descriptions and models demonstrate a limited understanding of the case study and case study implications. |
| **(15%) 5**. Data importance and policy | Clear and concise description of incorporating data importance and policy. The justification and examples are well thought out demonstrating excellent application of knowledge to the case study. | Clear description of incorporating data importance and policy. The justification and examples are demonstrating good application of knowledge to the case study. | Good description of incorporating data importance and policy. The discussion and examples demonstrating application of knowledge to the case study. | Some discussion of incorporating data importance and policy. The discussion and examples demonstrating some application of knowledge to the case study. | Minimal description of how to incorporate some of the data importance and policy. The discussion and examples are demonstrating little application of knowledge to the case study. |
| **(10%) 5**. Conclusion and recommendations | The conclusion presents a well-articulated and informed summary of report contents. The recommendations offers insightful and practical suggestions for action. | The conclusion presents a clear and informed summary of report contents. The recommendations offers thoughtful and practical suggestions for action. | The conclusion presents a good summary of report contents. The recommendations offers mostly practical suggestions for action. | The conclusion presents a summary of most of the report contents. The recommendations offers some suggestions for action. | The conclusion presents a limited summary of the report contents. The recommendations have limited applicability to the case study or offer limited reasons for action. |