

CPT202 Software Engineering Group Project

Coursework 1 – Software Requirements Analysis

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| Start date | 24 th February 2025 |
| Submission date | 16 th March 2025 |
| Assignment type | Individual assignment |
| Percentage in final marks | 20% |
| Late submission policy | 5% of the awarded marks shall be deducted for each working day after the submission date, up to a maximum of five working days. Late submissions for more than five working days will not be accepted. |
| Important notes | <ul style="list-style-type: none">• Plagiarism results in the award of a ZERO mark; all submissions will be checked by TurnItIn.• The formal procedure for submitting coursework at XJTLU is strictly followed. Submission link on Learning Mall will be provided in due course. The submission timestamp on Learning Mall will be used to check late submissions. |

Learning Outcome

- A. Work as part of a development team demonstrating effective communication and interpersonal skills to design and develop a software system.
- B. Demonstrate an understanding of the software development process including the principal methods and issues involved in deploying systems to meet business goals.
- C. Specify the requirements of a software system.
- D. Understand the role of properly written documentation in the process of software development.

Objective:

To collaboratively analyze project requirements and independently develop well-defined Product Backlog Items (PBIs) using the Scrum framework.

Coursework Process:

1. **Group Discussion and Requirement Analysis:**
 - Form groups to discuss and understand the project requirements thoroughly.
 - Collaboratively identify and outline the key modules of the project.
2. **Module Assignment:**
 - Within your group, assign each module to a different group member.

- Ensure each member clearly understands their assigned module and its requirements.
- 3. **Independent PBI Development:**
 - Each student will independently develop PBIs for their assigned module.
 - Use the standard PBI format, including user stories and acceptance criteria, to ensure clarity and testability.
- 4. **Peer Review Process:**
 - Upon completion of PBI development, participate in a peer review process.
 - Evaluate a peer's PBIs, providing constructive feedback focused on clarity, precision, and alignment with Scrum principles.
- 5. **Final Report Submission:**
 - Compile a final report that includes the following sections:

Final Report Components:

1. **Understanding of the Scrum framework**
 - Provide a clear and concise explanation of the Scrum framework, emphasizing the role of PBIs in the process.
 - Strictly limit this section to 100 words.
2. **Pre-Groomed PBI**
 - Develop five pre-groomed PBIs relevant to the module assigned to you, each with a user story and acceptance criteria.
 - Ensure each PBI is well-defined and adheres to the PBI format.
3. **Collaboration and Reflection**
 - **Peer Review and Feedback:**
 - Document your participation in the peer review process.
 - Provide constructive feedback to peers, focusing on clarity, precision, and alignment with Scrum principles.
 - Feedback should be actionable, helping peers improve their work.
 - Evaluation criteria include constructiveness, depth of analysis, and clarity of communication.
 - Strictly limit this section to 250 words.
 - **Reflection on Learning:**
 - Detailed reflection on what you learned from the coursework and the peer review process.
 - Discuss insights gained, personal growth, and how feedback was incorporated.
 - Strictly limit this section to 100 words.

Submission Guidelines:

- Submit your final report as a single PDF document via Learning Mall by the above submission date, including all sections outlined in the Final Report Components above.
- Ensure your PBIs are clearly formatted and easy to read.
- DO NOT submit more than 5 PBIs. Marks will only be given to the first 5 PBIs in your report.
- Include your peer review feedback and personal reflection as separate sections in the document.
- Name the report as CPT202-A1-StudentID.pdf

Marking Scheme

1. Understanding of Scrum and PBI Format (10 Marks)

- **Explanation of Scrum Framework (5 Marks):**
 - Clear and concise explanation of the Scrum framework, focusing on the role of PBIs in the development process.
- **Correct Use of PBI Format (5 Marks):**
 - Adherence to the standard PBI format, including user stories and acceptance criteria.

2. Quality of PBIs (20 Marks)

- **Clarity and Precision (10 Marks):**
 - PBIs are clearly written and easily understandable by all stakeholders.
- **Logical and Relevance (10 Marks):**
 - PBIs are logically relevant to the assigned module.

3. Pre-Groomed PBI (30 Marks)

- **PBI 1 (6 Marks):**
 - Well-defined user story and acceptance criteria.
- **PBI 2 (6 Marks):**
 - Well-defined user story and acceptance criteria.
- **PBI 3 (6 Marks):**
 - Well-defined user story and acceptance criteria.
- **PBI 4 (6 Marks):**
 - Well-defined user story and acceptance criteria.
- **PBI 5 (6 Marks):**
 - Well-defined user story and acceptance criteria.

4. Collaboration and Reflection (40 Marks)

- **Peer Review and Feedback (25 Marks):**
 - Students are required to participate in a peer review process, providing constructive feedback on another student's PBIs.
 - Marks are awarded based on the quality, thoughtfulness, and specificity of the feedback provided.
 - **Criteria for Evaluation:**
 - **Constructiveness (10 Marks):** Feedback should be constructive, offering actionable suggestions for improvement.
 - **Depth of Analysis (10 Marks):** Feedback should demonstrate a deep understanding of the PBIs and Scrum principles.
 - **Clarity and Communication (5 Marks):** Feedback should be clearly communicated and well-structured.
- **Reflection on Learning (15 Marks):**

- Students must submit a detailed reflection (Approximately 100 words) on what they learned from the assignment and the peer review process.
- Marks are awarded based on the depth of insight, personal learning, and application of Scrum principles articulated in the reflection.
- **Criteria for Evaluation:**
 - **Insightfulness (5 Marks):** Reflection should provide deep insights into the learning process and understanding of Scrum.
 - **Personal Growth (5 Marks):** Reflection should highlight personal growth and how feedback was incorporated.
 - **Feedback and Application (5 Marks):** Reflection should demonstrate how feedback from peer review were applied or understood through the coursework.