SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Faculty of Computing

Software Engineering - SE2030 Year 2 - Semester 1

2025 - S2

Group Assignment Specification (20% of Final Grade)

Group Assignment
LO 2 - 4
Project
100 marks
20%
3rd Week
3 rd Week, 10 th Week, 14 th Week
Group Presentation and Report

Assignment Description

Overview

This assignment is designed to help you apply software engineering principles, including SDLC stages, Agile practices, UML modeling, and design patterns, in a practical team-based project. You will work in pre-assigned groups to design and develop a real-world system using Java. Over the course of the semester, your team will go through multiple development phases, create a functional prototype, apply Agile (Scrum), demonstrate your progress, and submit a final working system along with the required documentation.

- Groups: Already formed (6 members each)
- Platform: Java-based web application
- Assignment Weight: 20% of final module grade

<u>Note:</u> In this assignment, students will be assessed both individually and as part of a team across all evaluation components.

Deliverables & Timeline

Phase	Week	Deliverables	Marks
Proposal Evaluation	Week 3	Proposal Presentation & Report	20%
Progress Evaluation	Week 10	Progress Presentation	30%
Final Evaluation and Viva	Week 14	Final Presentation & Report	50%

Project Life Cycle and Deliverables

Phase 1: Project Proposal

• Week: 3

• Weight: 20% of the total project mark

• Components: Presentation and Proposal Report

Proposal Presentation Instructions

• Duration: 10 minutes

• Participation: All group members must actively participate. Each member must present at least their assigned major function.

Proposal Presentation Content

Your presentation should clearly and concisely cover the following:

Presentation Section	Details
1. Project Title and Group	Mention the system name and list all group members.
Members' Names	
2. Introduction	- Brief overview of the project - Objectives and purpose
3. System Overview Diagram	A visual showing the overall system flow
4. Functional Requirements	Key features and functionalities of the system
5. Non-Functional	Qualities like performance, usability, security, etc.
Requirements	
6. Major Stakeholders / Users	Who will use or benefit from the system
7. Six Major Functions (one per	- Identify the user of each function - Explain the main
member)	tasks involved in each function
8. Minor Functions	Supporting features such as login, logout, etc.
9. System Limitations /	Any known assumptions, technical boundaries, or
Constraints	restrictions
10. Project Timeline	Weekly plan from Week 3 to Week 14 (include key
	expected activities)
11. Conclusion	Final remarks on the importance, feasibility, and value of
	the proposed system

Proposal Report Instructions

- **Submission Format**: Submit the report as a **soft copy (PDF format)** through the designated platform.
- Length: Maximum 12–15 pages
- **Submission**: One report per group
- **Purpose**: This report is a formal document that supports your proposal presentation. It should clearly outline your system idea, user needs, and project plan.

Proposal Report Structure

Section (with Suggested Page Count)	Details
1. Cover Page (1 page)	Include:
	Project Title
	Group Members' Names and Student IDs
	• Module Name and Code (e.g., SE2030 –
	Software Engineering)
	Submission Date
2. Introduction (1–2 pages)	Provide a clear overview of the project. Include:
	What is the project about?
	Objectives or goals
	Target users or stakeholders
	Scope and limitations
3. System Overview Diagram (0.5–1	Add a high-level diagram showing how your
page)	system will work. It can be a simple block or
	flow diagram.
4. Functional Requirements (1 page)	Clearly list the main functions your system must
	support. (e.g., user registration, booking,
	notifications)
5. Non-Functional Requirements (0.5–1	Define quality aspects such as performance,
page)	security, usability, or scalability.
6. Major Stakeholders / Users (0.5–1	Identify user roles like admin, customer, staff,
page)	suppliers, etc.
7. Six Major Functions (2 pages)	Assign one function to each group member. For
	each, describe:
	Who will use it
	What it does

	Expected outcome
8. Minor Functions (0.5 - 1 page)	Mention common supportive functions (e.g.,
	login, password reset).
9. System Limitations / Constraints (0.5	Mention known constraints such as platform
– 1 page)	limitations, expected device type, or
	assumptions.
10. Simple Timeline (0.5–1 page)	Create a basic timeline table from Week 3 to
	Week 14.
	For each key week, include what your group
	plans to complete during that time.
11. Conclusion (0.5–1 page)	Summarize your project idea and emphasize
	why it's worth implementing.
	Mention how your team plans to successfully
	complete it.

Phase 2: Progress Presentation

• Week: 10

• Weight: 30% of the total project mark (30 Marks)

• Type: Demo-based team presentation

• Duration: 15 minutes

• Participation: All group members must contribute and explain their progress, especially on their assigned major function.

Progress Presentation Content

Your team should demonstrate and explain the following:

Component	Details
1. Working Prototype	User Interface (UI)
	Partial Backend Functionality
2. Progress on Each Major	Clearly show what each team member has
Function	completed
3. Agile Sprint Summaries	Provide a summary of sprints completed so far
	Mention key deliverables and activities per sprint
4. Updated Use Case Diagram	Reflect any changes based on the progress
5. Class Diagram	Show object-oriented structure and key
	relationships

6. Activity Diagrams	One Activity Diagram for each major function
7. Ethical Considerations	Highlight any ethical concerns and how they are
	addressed
	Example: data privacy, user consent, accessibility

Phase 3 - Final Presentation

• Week: 14

• Duration: 15 minutes

• Type: Team-based presentation and demonstration

• Expectations:

o Demonstrate a fully working system

 Each team member should present part of the system, especially their assigned major function

 Explain how the system meets the defined requirements and objectives

 Highlight key features, technologies used, and any improvements made based on earlier feedback

Final Report Instructions

• File Type: PDF

• **Length**: Maximum 25 pages

• **Submission Mode**: Submit soft copy through the course platform

Final Report Structure

Section	Details				
1. Cover Page (1 page)	Include the following details on the first page of your				
	report:				
	Project Title				
	 Group Members' Names and Student IDs 				
	 Module Name and Code (e.g., SE2030 – Software 				
	Engineering)				
	Submission Date				
2. Introduction (~1-2 pages)	Provide a clear overview of the project.				
	Include the following:				
	Project Overview: Briefly describe what your				
	project is about.				
	Objectives: State the main goals you aim to				
	achieve through the system.				
	Target Users or Stakeholders: Identify who will				
	use the system or who is affected by it.				

	Scope and Limitations: Clearly define what the
	system will include and what is out of scope.
3. Requirements (~2-3 pages)	Present the gathered requirements for the system in a structured format. Include: • Functional Requirements: What the system must do (e.g., user login, search functionality). • Non-functional Requirements: Quality aspects such as performance, usability, and security. • Constraints or Assumptions: Any limitations or assumptions made (e.g., must run on Android, assumes users have internet access).
4. Design (~4 - 6 pages)	Describe how the system is planned and structured before coding begins. Include: • Use Case Diagram: A visual representation of user interactions with the system. • Database Design / ER Diagram: Show how data is structured and related. • UI Sketches or Description: Provide screenshots, wireframes, or written descriptions of the user interface. • System Architecture: Outline the overall system structure (e.g., MVC, client-server, layered).
5. Implementation (~2 - 3 pages)	 Explain how the system was built. Include: Tools and Technologies Used: Mention programming languages, IDEs, libraries, frameworks, etc. Key Features Developed: List core features that were implemented. Screenshots of Core Functions: Add images showing working parts of your system.
6. Project Management (~1-2 pages)	Describe how the team organized the development process. Include: • Agile Approach and Sprint Summary: Show how sprints were planned and executed. • Task Distribution Among Team Members: Explain who did what. • Development Phases or Timeline: Provide a summary of key milestones and their timelines.
7. Conclusion & Future Work	Summarize the project outcome and reflect on future

Include: Summary of Achievements: What was completed successfully. Challenges Faced: Key difficulties or blockers during the project. Suggestions for Improvement or Extension: What could be done better or added if more time/resources were available. In this section, each student should reflect on their personal involvement and team experience during the project. Please include the following: Your specific role in the project: What tasks or responsibilities did you handle? Challenges you faced: Describe any difficulties you encountered during the project. How you overcame those challenges: Explain the steps you took to solve the problems. Key lessons learned: What did you learn from working on this project? (about teamwork, tools, time management, etc.) Reflection on the project: What aspects of the project went well? What could have been improved?
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improved?
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Use a table where each row represents a group
member's reflection.
Each student in the group must complete one
row, explaining their own role and experience in
the project.
9. References (~1- 2 pages) List all the external resources you referred to in your
project.
Include:
 Books, websites, tools, APIs, and libraries.
Follow the IEEE referencing style strictly.
10. Appendix (optional) – Max Include any supplementary materials.
2 pages You may attach:
GitHub or repository link to your source code
Additional diagrams
 Meeting minutes, sprint logs, or planning
documents

Marking Rubrics

<u>Project Proposal Presentation and Report - Marking Rubric</u>

Total: 100 Marks (Presentation: 70 | Report: 30)

Criteria (Total Marks)	Excellent	Good	Satisfactory	Needs Improveme nt	Poor
Problem Analysis (8 marks)	Clear, concise explanation of problem, purpose, goals, and background (6–8 marks)	Clear explanatio n with minor omissions (5–6 marks)	Covers basic context, lacks clarity in purpose (3–5 marks)	Lacks detail and clarity (2–3 marks)	Not understanda ble or irrelevant (0–2 marks)
System Overview Diagram (8 marks)	Well-structured, easy-to-understand diagram showing components and relationship s (6-8 marks)	Mostly clear diagram with minor issues (5- 6 marks)	Diagram exists but lacks clarity or completeness (3–5 marks)	Poorly presented diagram (2– 3 marks)	No meaningful diagram (0– 2 marks)
Functional Requirements (10 marks)	All major functions well defined, relevant, and clearly explained (8–10 marks)	Most functions defined with minor gaps (6–8 marks)	Basic functions mentioned but not clearly elaborated (4–6 marks)	Few unclear or irrelevant functions (2-4 marks)	Requirement s missing or incorrect (0- 2 marks)
Non-Functional Requirements (7 marks)	Quality attributes like usability, performance , and security clearly	Mostly relevant quality aspects included (4–6 marks)	Some quality attributes covered (3–4 marks)	Limited or unclear attributes (1–3 marks)	Missing or incorrect content (0–1 marks)

				I	
	presented				
Stakeholder	(6–7 marks) All relevant	Most	Basic	Vague or	No
Identification (7	stakeholders	stakeholde	stakeholder	incomplete	stakeholder
marks)	identified	rs	list with	stakeholder	information
	and roles	identified	limited role	info (1-3	(0–1 marks)
	explained	(4-6	explanation	marks)	
A:d	(6–7 marks)	marks)	(3–4 marks)	Few	No
Assigned Functions (6	6 major functions	Functions assigned	Most functions	functions	functional
Major + Minor)	mapped to	with	assigned but	assigned,	mapping (0-
(10 marks)	users and	minor	roles not	unclear	2 marks)
	tasks +	gaps (6-8	clearly	ownership	,
	minor	marks)	defined (4-6	(2-4 marks)	
	functions		marks)		
	explained				
	(8-10				
System	marks) Realistic,	Reasonabl	Basic	Vague or	No mention
Limitations /	clearly	e	limitations	incomplete	of limitations
Constraints (7	explained	limitations	mentioned	constraints	(0–1 marks)
marks)	limitations	included	but not	(1–3 marks)	(0 1 11101 110)
	and	(4-6	discussed (3-		
	constraints	marks)	4 marks)		
	(6–7 marks)		_		
Team	Smooth	Minor	Unequal	Poor	No
Coordination &	transitions,	issues in time or	participation	coordinatio	coordination
Delivery (7 marks)	equal participatio	transitions	or unbalanced	n, evident confusion	or disorganized
(7 marks)	n, well-	(4-6	timing (3–4	(1–3 marks)	(0–1 marks)
	managed	marks)	marks)		(0 1)
	time (6–7				
	marks)				
Communication	Clear,	Mostly	Adequate	Unclear or	Difficult to
Skills	confident	clear with	presentation;	unconfident	understand
(6 marks)	speaking;	minor	some	delivery (1-	(0–1 marks)
	professional language	errors (4– 5 marks)	language/clar ity issues (2-	2 marks)	
	and effective	5 marks)	4 marks)		
	visuals (5–6		i marks)		
	marks)				
Report					
Report	Well-	Mostly	Basic	Unclear	Disorganized
Structure &	structured,	well	structure;	structure or	, hard to
Format	neat	organized	minor	inconsistent	follow (0-2
(10 marks)	formatting, logical flow	(6-8 marks)	formatting issues (4–6	format (2–4 marks)	marks)
	of content	maiksj	marks)	iliai KSJ	
	(8–10		maritoj		
L	_ (l	<u> </u>		l .

	marks)				
Coverage of Requirements (10 marks)	Complete documentati on of functional, non-functional, stakeholders, and limitations (8–10 marks)	Mostly complete with some minor omissions (6–8 marks)	Some components missing or unclear (4–6 marks)	Few components covered or poorly explained (2–4 marks)	Very limited or missing sections (0-2 marks)
Written Communication (10 marks)	Professional language, clear visuals, no grammar or spelling issues (8–10 marks)	Minor grammar or style issues (6– 8 marks)	Moderate grammar or clarity issues (4–6 marks)	Hard to read, many errors (2–4 marks)	Poorly written or missing visuals (0–2 marks)

Progress Presentation - Marking Rubric

Total: 100 Marks

Criteria (Total Marks)	Excellent (5)	Good (4)	Satisfactory (3)	Needs Improveme	Poor (1)
Marksj			(3)	nt (2)	
Working Prototype (UI + Backend) (25 marks)	Functional UI with partial backend demonstratin g expected behavior (20–25 marks)	Most features shown; minor missing parts (15– 20 marks)	Basic functionalit y shown; lacks polish (10-15 marks)	Prototype incomplete or unstable (5–10 marks)	No working prototype or does not meet minimum expectations (0–5 marks)
Agile Sprint Summaries (15 marks)	Clearly explains completed sprints, tasks assigned, and backlog tracking (12–15 marks)	Sprint summaries mostly complete with small gaps (9–12 marks)	Basic sprint updates with little detail (6–9 marks)	Vague sprint info or inconsistent tracking (3– 6 marks)	No usable summary of sprints (0–3 marks)
Final Use Case Diagram	Accurate and updated	Mostly correct	Some elements	Confusing or inaccurate	No diagram or irrelevant (0-
(10 marks)	diagram with all actors and functions (8–	diagram with minor issues (6-8	missing or misplaced (4–6 marks)	diagram (2–4 marks)	2 marks)

	10 marks)	marks)			
Class Diagram (10 marks)	Well-structured showing relationships, methods, and attributes (8–10 marks)	Mostly complete; minor issues (6–8 marks)	Some basic structure present (4–6 marks)	Limited or unclear diagram (2– 4 marks)	No diagram or mostly incorrect (0- 2 marks)
Activity Diagrams (per major function) (10 marks)	Clear diagrams showing detailed logical flows (8–10 marks)	Mostly correct diagrams with small errors (6–8 marks)	Basic flow represente d (4–6 marks)	Incorrect or incomplete flow (2-4 marks)	Missing or irrelevant diagrams (0-2 marks)
Ethical Consideration s (10 marks)	Addresses issues like privacy, accessibility, and fairness (8–10 marks)	Covers most important ethical aspects (6-8 marks)	Basic mention of ethics (4–6 marks)	Unclear or vague treatment of ethics (2–4 marks)	No ethical concerns discussed (0-2 marks)
Team Communicatio n & Demo Delivery (10 marks)	Smooth delivery with good transitions and confident explanations (8–10 marks)	Minor delivery issues, good team involvement (6-8 marks)	Acceptable coordinatio n (4–6 marks)	Disorganize d delivery (2–4 marks)	Uncoordinate d or unclear demo (0–2 marks)
Effective Communicatio n (10 marks)	Each member explains their system component clearly and effectively (8–10 marks)	Most members communicat e well (6–8 marks)	Mixed levels of clarity (4– 6 marks)	Many unclear or nervous presenters (2–4 marks)	Very weak individual communication (0–2 marks

<u>Phase 3 - Final Presentation and Report - Marking Rubric</u>

Total: 100 Marks (Presentation: 80 | Report: 20)

Criteria	Excellent (5)	Good (4)	Satisfactory	Needs	Poor (1)
(Total Marks)			(3)	Improveme	
				nt (2)	
System	Fully	Most features	Basic	System	Non-
Functionality	working	functional;	functionalit	partially	functional or
Demo	system with	minor bugs or	у	working or	very limited
(25 marks)	all required	incomplete	demonstrat	unstable (demonstratio

	C	C	. 1 . 11	(12 1	. (0 =
	features	features (17–	ed with	6–12 marks	n (0-5
	demonstrate	20 marks)	notable)	marks)
	d (21–25		issues (13-		
	marks)		16 marks)		
Team	Smooth	Minor	Acceptable	Unclear	Disorganized
Communicati	transitions,	delivery	presentatio	transitions;	presentation
on &	shared	issues; good	n; uneven	limited	with poor
Presentation	ownership,	team	participatio	teamwork (communicati
Flow	clear and	coordination	n (4-6	2–4 marks)	on (0-2
(10 marks)	confident	(6-8 marks)	marks)		marks)
	delivery (8-		,		
	10 marks)				
UI/UX	Interface is	Minor UI	Acceptable	Unappealin	No attention
Quality	attractive,	issues but	interface	g or difficult	to design or
(10 marks)	user-friendly,	overall user-	with several	to use	usability (0-
(10 marks)	_				
	and	friendly (6–8	usability	interface (2 marks)
	consistent (marks)	flaws (4–6	2–4 marks)	
A 1: C	8–10 marks)	m 1 .	marks)	A 1	NY.
Application of	Two well-	Two relevant	At least one	Attempted	No
Design	suited design	patterns	pattern is	use of	meaningful
Patterns	patterns are	applied with	applied	design	application of
(10 marks)	correctly and	minor issues	correctly.	patterns,	design
	effectively	in	Second	but with	patterns.
	implemented	implementati	pattern may	incorrect	Patterns
	with clear	on or	be missing	application,	missing or
	justification.	justification.	or poorly	poor	completely
	Patterns are	One pattern	integrated.	relevance,	incorrect. (
	well-	may be	Partial	or lack of	0–2 marks)
	integrated	slightly less	justification	justification.	
	into the	appropriate. (provided. ((2-4 marks	
	system	6–8 marks)	4–6 marks))	
	design. (8-	o o marno j	i o marno j	,	
	10 marks)				
Team Work /	Each member	Most	Some	Uneven	Minimal or
Individual	clearly	members	members		
Contribution	=	explain their	unclear or	participatio n (3-6	no contribution
	presents and	-		•	
(15 marks)	explains their	parts well (limited	marks)	from several
	component (9–12 marks)	input (6-9		members (
	12–15 marks		marks)		0–3 marks)
	J			_	
Ethical &	Ethical issues	Most key	Basic ethics	Few or	No ethical
Real-World	and real-	ethical	covered but	unclear	consideratio
Consideratio	world impact	aspects	lacks depth	ethical	ns mentioned
ns	clearly	mentioned ((4–6 marks	points (2-4	(0–2 marks)
(10 marks)	addressed (6-8 marks))	marks)	
	8-10 marks)				
Report - 20 M					
Problem	Comprehensi	Good analysis	Basic	Incomplete	Little to no
Analysis	ve and in-	with mostly	analysis	or shallow	evidence of
	1 :		320		

(10 marks)	depth analysis of the topic. Clearly categorized functional and non- functional requirements with justification. Limitations are well- identified. All key stakeholders are correctly recognized. Use case diagram is accurate, complete, and effectively represents the system's behavior (8-	clear requirements . Minor gaps in justification or stakeholder identification. Use case diagram is mostly correct with minor issues. (6-8 marks)	provided. Functional and non- functional requiremen ts are present but with limited clarity or depth. Stakeholder s partially identified. Use case diagram is present but lacks detail or has errors. (4– 6 marks)	analysis. Requirements are vague or not properly categorized. Stakeholder analysis is minimal. Use case diagram is unclear or incorrect. (2–4 marks)	analysis. Requirement s and stakeholders are missing or completely inaccurate. No valid use case diagram provided. (0-2 marks)
	behavior.(8– 10 marks)				
Written Communicati on (Language, Grammar & Referencing) (10 marks)	Well-written with correct grammar, style, and references (8–10 marks)	Minor grammar or citation errors (6–8 marks)	Some unclear sections; inconsistent referencing (4–6 marks)	Poor grammar or structure (2-4 marks)	Hard to read and poorly structured (0-2 marks)

Submission Format

- All reports must be in PDF format.
- All source code should be submitted via GitHub with access granted.
- One group member will submit the documents on behalf of the team.
- Deadlines will be published on Course Web.

Important Notes

- Late submissions will incur penalties.
- All students must contribute equally.
- Plagiarism will result in zero marks and disciplinary action.
- Ethical risks must be identified early (e.g., data privacy, AI misuse).