

SYSTEM REQUIREMENTS SPECIFICATION (SRS)

(Weight 10 pts | Due Wednesday, July 30, 2025, 23:59 GMT)

Context – Each team already completed Sprint 0 (02 Jun – 18 Jul 2025) and should possess draft requirements artefacts. This brief simply formalises what to upload. Use the five-day window to polish documentation, verify traceability, and ensure diagrams are export-ready.

- **Deliverable** – single PDF (≤ 6 MB) named **DCIT208_SRS_<TeamName>.pdf**.
- **Optional** – attach editable diagram sources (.drawio, .puml) in a zipped folder.

Detailed Section Guide

1. Functional Overview & Use-Case Model

- **Problem Recap** – (≤ 100 words) align with approved proposal.
- **Use-Case Diagram** – single page, readable font size. Alt-option: C4 Context + Container (if team shifted to C4 modelling).
- **Use-Case Descriptions** – bullet description per use case (actor, trigger, normal flow).

2. User Stories

- Use strict **INVEST** criteria (Independent, Negotiable, Valuable, Estimable, Small, Testable).
- Maintain traceability **UC-x** \rightarrow **US-y**

3. Preconditions & Postconditions

- Specify state of database, UI, external systems.
- Use numbered lists; avoid vague “system is on”.

4. Story Sizing & Epics

- Mark stories > 2 days of effort as Epic.
- Show proposed decomposition (e.g., Epic E1 \rightarrow US-4, US-5, US-6).

5. Non-Functional Requirements

- Table columns: ID, Quality Attribute, Requirement, Rationale, Measurement/Test.
- Example ID convention: NFR-SEC-01.

6. Glossary & References

- Alphabetical list; one-sentence definitions.
- Cite textbooks or client documents using APA.

7. Supplementary Diagrams

- **DFD** – Level 0 context + Level 1. Show external entities, data stores.
- **ERD** – crow’s-foot notation recommended.
- Optional diagrams – include only if they aid comprehension; avoid clutter.
- Export diagrams at 300 dpi; ensure labels are legible.

Compliance & Integrity Notes

- **Gen-AI Usage** – allowed for boiler-plate or diagram legends only if every team member can explain generated content.
- **DevSecOps Alignment** – requirements traceability matrix and CI lint checks must reference story IDs.
- **Academic Honesty** – plagiarism checks apply.

Marking Rubric (10 pts total)

Section	Pts	Evidence
1. Functional Overview & Use-Case Model	2	Concise system summary, one high-level use-case diagram (or C4 Context + Container). Each use case captioned in natural language.
2. User Stories	2	Numbered list using As a [role], I want [goal] so that [benefit] syntax.
3. Preconditions & Postconditions	2	For each user story: explicit pre/post state list linking to entities or UI state.
4. Story Sizing & Epics	1	Identification of any epic-scale stories + planned split strategy.
5. Non-Functional Requirements	1	Table grouped by ISO 25010 quality attributes (performance, security, usability...).
6. Glossary & References	1	Glossary of domain terms + APA citations to Sommerville 10e, Pressman 9e, Kendall 9e where concepts reused.
7. Supplementary Diagrams	1	Level 0 & Level 1 DFD or C4 Component diagram • ERD (PK, FK) • <i>Optional</i> : sequence/activity/class if clarifying.

Late penalty: –10 % per 24 h block after the deadline.