# **CSAI 498 / CSAI 499 – Graduation Project Proposal Template**

* Submission: Week 6  Deliverable Type: Written Report (PDF + GitHub link)

## **Cover Page**

• Project Title:

• Team Members: (include student name, ID, and program – SWD / IT / DSAI)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Student Name | ID | Program |
|  |  |  |  |

• Supervisor:

• Semester / Year:

• Date of Submission:

## **Abstract**

A concise summary (150 – 250 words) describing:  
- The problem you are solving.  
- Why it matters and who it affects.  
- Your proposed solution.  
- The expected outcomes or impact.

## **Problem Statement & Motivation → (SO 1)**

- Describe the real-world problem you are tackling.  
- Explain the context, constraints, and affected stakeholders.  
- Justify why this problem is significant and worth solving.

## **Proposed Solution → (SO 1 & SO 2)**

- Describe your core idea and approach.  
- Highlight what makes it innovative or distinctive.  
- Explain the key functionalities or features planned.

## **Project Scope → (SO 2)**

- In Scope: clearly list what your project will cover (Must-have features, Could-have Features).  
- Out of Scope: specify what will not be included (Will-not-have Features).  
- Mention any assumptions or limitations.

## 

## **High-Level Timeline → (SO 2)**

|  |  |  |  |
| --- | --- | --- | --- |
| Phase | Description | Duration (weeks) | Deliverables |
| Research & Requirement Analysis |  |  |  |
| Design & Planning |  |  |  |
| Implementation Part 1 |  |  |  |
| Testing & Evaluation |  |  |  |

## **Technology Stack & Theoretical Basis → (SO 6 – Program Specific)**

• List all programming languages, frameworks, tools, and APIs you intend to use.  
• Justify your choices.  
• Program Focus:  
 - SWD: Emphasize algorithms, software architecture, and design patterns.  
 - IT: Focus on integration, systems security, and administration of technologies.  
 - DSAI: Focus on data collection, analysis, AI models, and lifecycle management.

## **Success Metrics & Evaluation Plan → (SO 2 & SO 6)**

Define how success will be measured, e.g.:  
- Performance (speed, latency, accuracy)  
- Usability or user satisfaction  
- Reliability / security  
- Data quality / model accuracy (for DSAI)  
Explain how you will evaluate these metrics (testing plan, surveys, benchmarks, etc.).

## **Team Roles & Responsibilities → (SO 5 & SO 3)**

|  |  |  |  |
| --- | --- | --- | --- |
| Team Member | Program | Primary Role | Technical Contribution (SO 6 Focus) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Include your communication plan (meeting frequency, tools used, documentation platforms).

## **References**

List any papers, datasets, libraries, or technologies you referenced (use IEEE style).

## **Submission Checklist**

1. Report (PDF) uploaded to Classroom.
2. Team roles and program-specific contributions clearly identified for each team member.
3. All sections completed and formatted according to template.