AI Usage Summary – OSSP Documentation Tasks

📌 **Purpose:**
Used **AI** to assist in creating and refining all UML and documentation artifacts for the **Optional Subjects Selection System (OSSS)** project.

📂 AI Was Used For:

1. 📝 **Requirements Document** – structured and formatted functional/non-functional requirements.

2. 🏗️ **Architecture Diagram** – helped model multi-layer system architecture (client, API, data, infrastructure).

3. 🎭 **Use Case Diagram** – defined actors, relationships, and system use cases.

4. 🔄 **Flowcharts (Student & Admin)** – visualized user processes step-by-step.

5. ⏱️ **Sequence Diagrams (Student & Admin)** – mapped system interactions and message flows.

6. ⚙️ **Activity Diagrams (Student & Admin)** – represented process logic and decision flows.

7. 🧱 **Class Diagram** – structured entities, attributes, and relationships.

8. 🛢️ **Entity-Relationship Diagram** – modeled database schema and constraints.

✅ Advantages:

• Rapid generation of well-structured **UML code (PlantUML / Mermaid)**.

• Ensured **visual consistency** across all diagrams.

• Reduced **time spent on formatting and layout**.

• Provided **design suggestions** (layering, naming, relationships).

• Improved **clarity and readability** of documentation.

⚠️ Disadvantages:

• Needed **manual verification** for logic correctness and domain alignment.

• Some **syntax and layout adjustments** were required post-generation.

• AI-generated relationships occasionally needed refinement to match actual system flow.

💡 **Summary:**
AI served as a **collaborative documentation and design assistant**, helping produce all major UML and project documents efficiently, while **final validation and technical accuracy** were ensured by human review.

This card documents AI involvement across all OSSS diagramming and documentation tasks for transparency and reproducibility.