Final Year Project Process Ontology ORSD

1. Purpose

The purpose of the Final Year Project Process Ontology is to provide a standardized knowledge representation of the processes, activities, roles, and deliverables involved in final year academic projects.

2. Scope

- The ontology focuses specifically on final year projects in academic institutions.
- It covers the entire lifecycle from project selection to final submission and evaluation.
- It includes processes, actors, documents, timeframes, resources, and assessment criteria.
- It does not include specific subject matter content of individual projects.
- It does not cover administrative processes outside the core project workflow.

3. Implementation Language

OWL language will be used to implement the ontology.

4. Intended Users

Sr. No.	User
User 1	Students
User 2	Academic Supervisors
User 3	Project Evaluation Committees
User 4	Department Administrators
User 5	External Examiners
User 6	Academic Institutions
User 7	Software Developers (building project management tools)

5. Intended Uses

Sr. No.	Use
Use 1	To guide students through the project lifecycle
Use 2	To standardize project supervision processes
Use 3	To clarify deliverable requirements and deadlines
Use 4	To define evaluation criteria and assessment methods
Use 5	To facilitate project management and tracking

Sr. No.	Use
Use 6	To support quality assurance in academic projects
Use 7	To provide a foundation for project management tools

6. Ontology Requirements

6.1 Non-Functional Requirements

- **Completeness**: Ontology should cover all aspects of the final year project process as defined in the scope.
- **Usability**: The ontology should be intuitive for all intended users.
- **Maintainability**: Structure should allow for future extensions and modifications.
- **Interoperability**: Should be compatible with other academic ontologies where possible.
- **Reusability**: Core concepts should be reusable across different types of academic institutions.

6.2 Functional Requirements (Competency Question Groups)

G1: Project Initiation

ID	Question
G1-A	What are the steps involved in selecting a project?
G1-B	Who can be project partners and how many are allowed?
G1-C	What information must be included in the initial project idea?
G1-D	What are the criteria for project approval?
G1-E	Which supervisors are available for specific project domains?
G1-F	What is the timeline for project selection and approval?
G1-G	What resources are needed for different types of projects?

G2: Project Proposal

ID	Question
G2-A	What elements must be included in a project proposal?
G2-B	What is the process for proposal submission?
G2-C	Who evaluates project proposals?
G2-D	What are the criteria for proposal acceptance?
G2-E	What is the required format for the proposal document?
G2-F	When are proposal deadlines for different semesters?
G2-G	What happens if a proposal is rejected?

G3: Project Execution

ID	Question
G3-A	What are the major phases in project execution?
G3-B	What is the required frequency of supervisor meetings?
G3-C	How are project changes or pivots handled?
G3-D	What documentation is required during implementation?
G3-E	How is project progress tracked and reported?
G3-F	What technical resources are available for implementation?
G3-G	What is the timeline for key project milestones?

G4: Documentation and Deliverables

ID	Question
G4-A	What documents must be produced during the project?
G4-B	What is the required format for the final report?
G4-C	What content must be included in the final report?
G4-D	How should code or technical artifacts be documented?
G4-E	When are the submission deadlines for deliverables?
G4-F	What is the process for submitting deliverables?
G4-G	Who has access to project deliverables?

G5: Supervision and Support

ID	Question
G5-A	What are the responsibilities of internal supervisors?
G5-B	What are the responsibilities of external supervisors?
G5-C	How are supervisors assigned to projects?
G5-D	What is the process for requesting supervisor meetings?
G5-E	How is feedback provided during the project?
G5-F	What support resources are available to students?
G5-G	How many projects can a supervisor oversee simultaneously?

G6: Evaluation and Assessment

ID	Question
G6-A	What are the evaluation criteria for final year projects?
G6-B	Who is responsible for project evaluation?
G6-C	What is the format of the final presentation/defense?
G6-D	How is the final grade calculated?
G6-E	What are the passing requirements for the project?

ID	Question
G6-F	How are group projects evaluated individually?
G6-G	What is the process for project revision if required?

G7: Project Timeline and Scheduling

ID	Question
G7-A	What are key dates and deadlines throughout the project?
G7-B	How are project activities scheduled across semesters?
G7-C	What is the duration of each project phase?
G7-D	When are project presentation/defense sessions scheduled?
G7-E	How is project scheduling affected by academic calendars?
G7-F	What happens if deadlines are missed?
G7-G	How are timeline extensions requested and approved?

7. Pre-Glossary of Terms

Project, supervisor, student, proposal, evaluation, committee, deadline, milestone, report, presentation, defense, assessment, criteria, documentation, submission, timeline, semester, process, methodology, resource, deliverable, feedback, revision, approval, implementation, testing, validation, partner, review, grading, examination, academic.