Weekly Report: Web Application for Projects/ Products Developed by SPL Lab Team

Week 2: 13.01.2025 - 18.01.2025

Objective: Project Flow Analysis.

Tasks Completed:

1. Developed initial drafts of Data Flow Diagrams (DFDs):
   ○ Visualized data movement across major components such as user authentication, project management, and task management modules.
   ○ Uploaded drafts to the Git repository under the documentation folder.
2. Created Entity-Relationship (ER) Diagrams:
   ○ Mapped key entities such as Users, Projects, Tasks, and Roles.
   ○ Established relationships to ensure a logical database structure.
3. Conducted internal reviews of diagrams:
   ○ Adjusted drafts based on team feedback for clarity and precision.

Key Achievements:

● Logical and well-defined DFDs and ER diagrams that guide future development.
● Repository enriched with detailed project documentation.

Challenges Faced:

● Balancing complexity and simplicity in diagrams to ensure ease of understanding.
● Ensuring all key entities and data flows are captured accurately.

Next Steps:

● Finalize DFDs and ER diagrams.
● Prepare for backend and database schema implementation.