

Software Project WiSe 25/26

Milestone 1

Tim Dilger

29.10.2025

1 Project Diary - Milestone 1

1.1 Week 1: October 06-12

- Created document containing ~60 possible exercise questions (Single Choice, Multiple Choice, Drag&Drop, Dropdown, Fill-In, Visual/Interactive)

1.2 Week 2: October 13-19, 2025

1.2.1 Question Development - Definitions & Concepts

- Created and completed 6 Single Choice questions covering Eulerian and Hamiltonian path fundamentals
 1. Semi-Eulerian Graphs
 2. Finding Eulerian Paths
 3. Historical Origins (Seven Bridges of Königsberg)
 4. Trails and Eulerian Paths
 5. Directed Graph Eulerian Circuits
 6. Computational Complexity
 - Each question includes 4 answer choices with complete feedback for all options
-

1.3 Week 3: October 20-26, 2025

1.3.1 Question Development - Graph Analysis

- Completed 2 Single Choice questions with full answers and feedback
 - Questions developed:
 1. Analyzing Complete Graphs
 2. Creating Eulerian Circuits
 - Each question includes 4 answer choices with complete feedback for all options
-

1.4 Week 4: October 27-29, 2025

1.4.1 Question Development - Graph Analysis

- Completed 2 Single Choice questions with full answers and feedback
- Questions developed:
 1. Trees and Eulerian Paths
 2. Degree Sequence Analysis
- Each question includes 4 answer choices with complete feedback for all options

1.4.2 Milestone 1 Preparation

- Completed this diary document for submission
-

1.5 Summary

1.5.1 Questions Developed

- **Definitions & Concepts:** 6 complete questions
 - **Graph Analysis:** 4 complete questions
 - **Total:** 10 Single Choice questions
-