KT1: Work Plan

Objective

Build an autonomous CRUD application with relational storage, tests, logging and deliverables for KT1-KT4.

Scope

- Implement `Task Management System` (recommended variant).
- Build web interface with task list, creation, editing, deletion.
- Add search, filtering by status and pagination.
- Add persistence and seed data.
- Provide tests and documentation.

Stages and Timeline

Stage	Tasks	Duration	Deliverable
1. Requirement decomposition	Analyze assignment and acceptance criteria	4h	Scope statement
2. Architecture and DB design	Define modules, entities, data flow	8h	KT2 architecture doc
3. Implementation	Build MVC pages, services, persistence	16h	Working project
4. Testing	Unit/scenario tests, fixes	8h	Test suite and report
5. Documentation	Final report and presentation material	4h	KT3 and KT4 docs

Total: 40 hours.

Resources

- .NET SDK 9
- IDE (Visual Studio or VS Code)
- SQLite
- NuGet packages (`Microsoft.EntityFrameworkCore.*`, `Serilog.*`, `xUnit`)

Risks and Mitigation

- Version incompatibility: pin EF Core to `9.0.3`.
- Scope growth: keep one domain entity and complete it end-to-end.
- Test instability: isolate tests via unique in-memory DB names.