

Project Setup and Working Method

Planning and Division of Work

1. Identifying Work Components

We began by listing all necessary activities, from business analysis through to delivery of ER diagrams.

2. Business Analysis

We mapped out key stakeholders (such as customers, warehouse personnel, buyers) and identified the main flows and processes.

3. User Stories & Prioritization

Based on the business analysis, we formulated user stories that reflected the users' needs. We then applied the MoSCoW method (Must, Should, Could, Won't) to rank and prioritize each story.

4. Breakdown into "Marts"

To make the workload manageable, we divided prioritized user stories into smaller "Marts" (task blocks). Each Mart was scoped to ensure equal distribution of workload.

5. Sprint Structure

The project was carried out in 1-week sprints. After each sprint, we reviewed outcomes, reflected on obstacles, and planned the next steps.

Role Allocation and Responsibility Areas

Each team member took ownership of a specific business domain such as warehouse, finance, HR, marketing, and customer systems.

Everyone developed detailed functional requirements for their area, which served as the basis for the database design and implementation.

Design Phase: ER Diagrams and Consolidation

After agreeing on the individual requirements, we initiated the data modeling phase. Each member created an ER diagram, which we then merged into a unified version. We identified redundancy, overlap, and adjusted structures for consistency.

Iteration and Feedback

Weekly group check-ins were held to review progress. We shared updates, discussed challenges, and exchanged feedback. This enabled us to resolve issues quickly and stay aligned.

Integration and Quality Assurance

Each responsible person independently validated their results. We actively ensured correct linking between components. Collaborative integration sessions ensured consistency and addressed any design issues.

Summary

Our process was characterized by an agile approach and collaborative mindset. By working in short sprints, maintaining regular check-ins, and being transparent, we achieved a cohesive final product. This agile structure helped us balance individual ownership with group synergy, leading to a realistic and flexible database system for the given assignment scope.