



# Midterm Project Guide

Prof. Dr. Daning Hu  
Department of Informatics  
University of Zurich

# Outline

- Project overview
- Requirement Analysis
- Project Scope Management/Analysis
- Project Time Management
- Project Cost Management
- Project Quality Management

# Project Overview

- The Midterm Project aims to provide you hands-on experiences in IT project management by planning and managing a real-world IT project.
- The goal of this step is to provide an overview of the project idea.
- You may use the published slides and tutorials as your guide to finish the project.
- Please state your team members' names and student IDs in the front page of the report.

# Requirement Analysis

- The goal of this step is to understand the customer's requirement and describe what the program/system will do to satisfy the requirements.
- You need to
  - Show how you gather requirements with techniques such as **Interviews, questionnaires, observation, document/data analysis, or JAD.**
  - Use Activity Diagrams to model and analyze the customer requirements, and describe the business process. (can also be used in time management).



# Project Scope Management/Analysis

- Define Project Scope:
  - Detailed descriptions of all project deliverables.
  
- Create the Work Breakdown Structure (WBS):
  - You can choose any type of WBS for your project.
  
- Use at least three of the following techniques:
  - Stakeholder register
  - Requirements traceability matrix (RTM)
  - WBS – Work packages (lowest level)
  - WBS Dictionary

# Project Time Management

- The goal of this step is to establish a pragmatic strategy for controlling, tracking, and monitoring the time perspective of a complex IT project.
- You need to
  - Create Network Diagram (ADM or PDM)
  - Create Gantt Charts (with WBS) for project scheduling.
  - Analyze the Critical Path for the project

# Project Cost Management

- The goal of this step is to estimate the cost of your project
- You need to use at least two of the following methods
  - NPV analysis (ROI, IRR, Payback) with cost tables
  - Parametric Modeling table
  - EVM methods

# Project Quality Management

- The goal of this step is to provide a quality control plan.
  
- You need to use at least four of the following methods
  - Cause & Effect Diagram
  - Control Chart
  - Run Chart
  - Scatter Diagram
  - Histogram
  - Pareto Diagram
  - Flowchart