# Domain model

## 1 Task

- Assigned to unfinished project

- Description

- Estimated duration: hours and minutes

- Acceptable deviation: percentage

- Task can finish:

  - On time
  - Early
  - Too late

- Task can depent on other taks

- Task can fail → new task in it's place (time spent on failed task counts for total time) → replaces dependency and project status

- Time span:

  - Actual start time
  - Actual end time
  - Calculate delay or assess estimated time
  - Timespan of tasks may overlap, unless dependency

- Status:

  - Available, unavailable, finished, failed (unavailable → dependency)
  - User can only set t ofinished or failed, system maintains availablity

# 2  Project

- Project = multiple tasks

- Name

- Description

- Creation time

- Due time

- Status → marked as finished/ongoing : boolean → based on tasks

    - Finished when all tasks are finished

- Ongoing: system makes estimate of when finished

    - Based on: time of finished tasks
    - Estimate of duration of unfinished tasks
        * Parallelizing as much as possible
        * Monday - friday 8 hours days

- Finished projects: indicate the total delay + finished on time or not