

# KoProject

## Structure Project Management

### 1. Domain Model Objects Summary

The main objects that should be stored in project database are: **Employee**, **Project**, **Task** and **Project Message**.

**Employee** is the main class object as a user role. Every registered user have first and last name, username, password, email and role as an employee by default. It is an abstract class that is inherited by Admin which extends its functionality.

**Project** is the entity users should work on it. The attributes are name, members (i.e. **Employee**), client, time estimate, due date and **tasks**.

**Task** is a subpart of the **Project** with its name, member (i.e. **Employee**), description, time estimate and due date.

**Project Message's** attributes are **Project**, comment and member (i.e. **Employee**).

To be unique all entities have their own IDs.

One **Employee** can be involved to zero or many **Projects**, can have zero or many **Tasks** and **Project Messages**. One **Project** should have one or many **Tasks** and zero or many **Project Messages**. **Project** has a composition relationship with **Project Messages** and **Tasks** (they cannot exist if **Project** class is destroyed) and aggregation relationship with **Employee** (**Project** can be assigned to another user).

### 2. Entity Relationship Diagram (ERD)

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