# Introduction

The goal of this software is to help organizing office that is not tied to any certain location. It shall allow user easily track spent time. Organize tasks that can be sorted by various factors that are unique to the organization. This allows creation of invoices later on with accurate work hours to provide statistics that can be used later on to improve work processes.

Main goals include

- Reduce paper usage
- Increase efficiency by reducing time spent on management

The demo machine it's primarily made to work includes Apache web server, backend is programmed in PHP and for UI Bootstrap css-framework and JQuery js-frameworks are utilized. First MySQL is used as database but other systems might be added.

Use case diagram
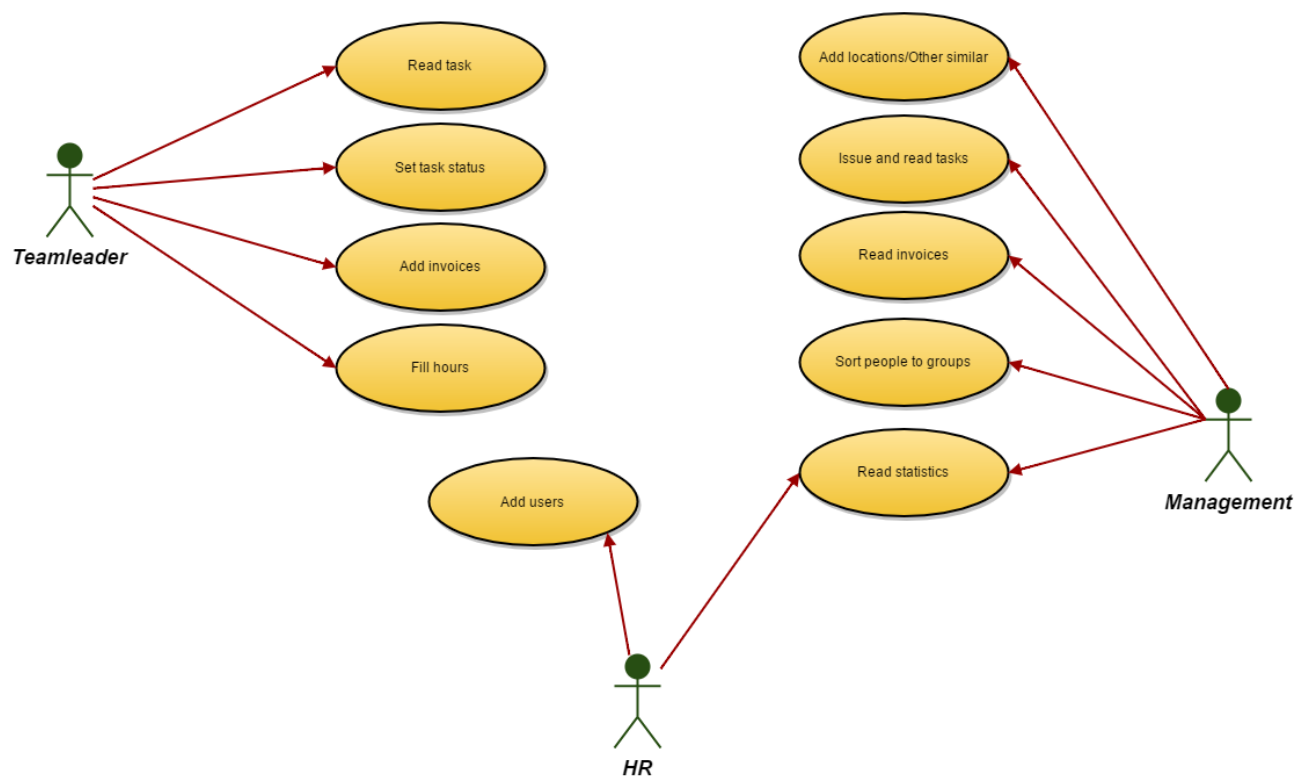
Conceptual Diagram
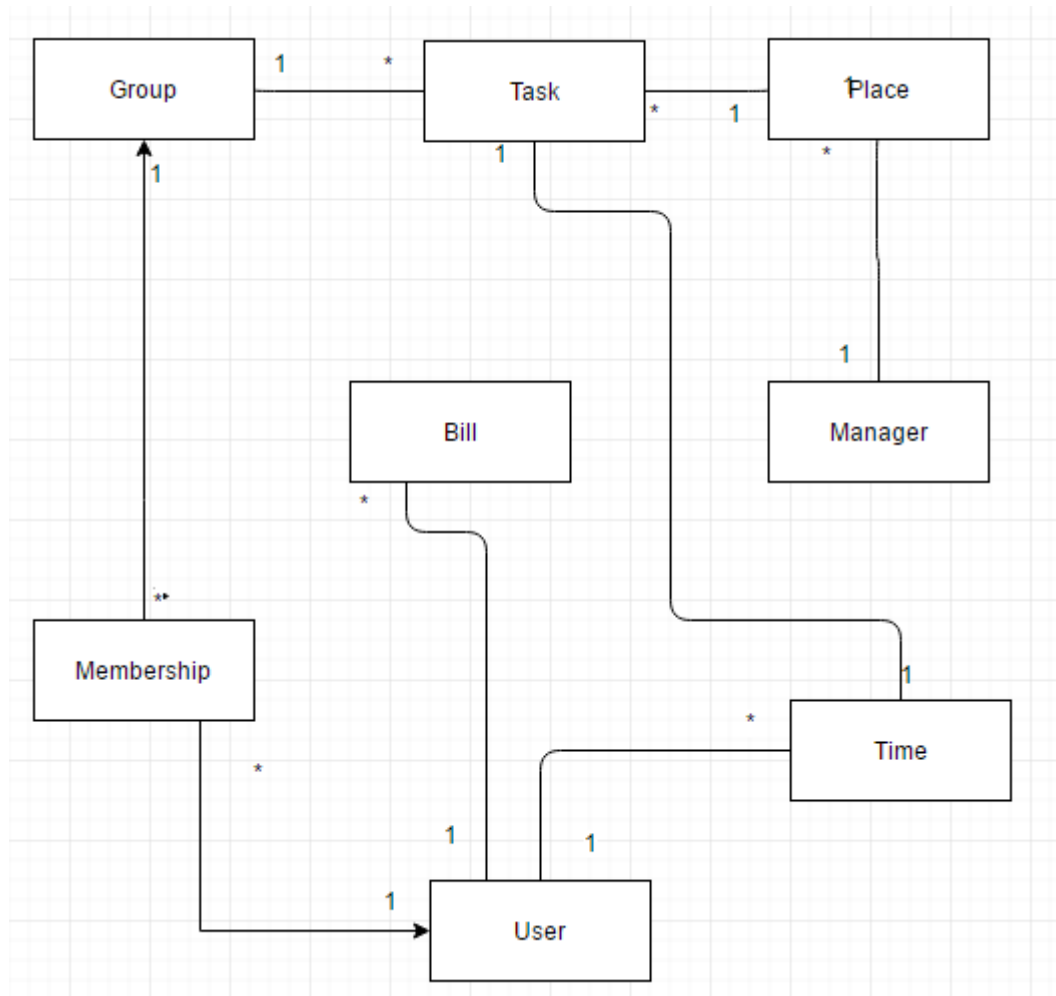
Object informations

Bill

Attribute	Values	Description
company	String, max 255 chars	Name of the company
info	String, max 16777215 chars	Optional information
path	String, max 255 chars	Path to image on filesystem
date	date	date of posted bill

Group

Attribute	Values	Description
name	String, max 255 chars	Name of the group
info	String max 16777215 chars	Optional information
active	1 / 0	Is the group active

Membership

Attribute	Value	Description
g_id	integer	Group id
u_id	integer	User id

Owner

Attribute	Value	Description
Name	String, max 255 chars	Name of the manager
Phone	String, max 255 chars	Phone number
Email	String, max 255 chars	Email address

Place

Attribute	Value	Description
Address	String, max 255 chars	Address in the form of Address 1
City	String, max 255 chars	Name of city
Maintenance	String, max 255 chars	Name of maintenance company
Billingcode	String, max 255 chars	Special code for the location

Task

Attribute	Value	Description
Name	String, max 255 chars	Name of the task
Info	String max 16777215 chars	Optional information
Active	1/0	If the task is still active

Time

Attribute	Value	Description
Date	Date	Date
Start time	time	Starting time of the task
End time	time	Ending time of the task

User

Attribute	Value	Description
Name	String, max 255 chars	Username
Password	String, max 255 chars	password
Adminlevel	integer	specifies the admin level of the user

Relational database diagram

times	
<< key >> id: int	
<< fkey >> u_id:int	
<< fkey >> t_id:int	

users
<< key >> id: int

bills
<< key >> id: int
<< fkey >> u_id:int

tasks
<< key >> id: int
<< fkey >> g_id:int
<< fkey >> p_id:int

memberships
<< key >> id: int
<< fkey >> u_id:int
<< fkey >> g_id:int

places
<< key >> id: int
<< fkey >> o_id:int

places
<< key >> id: int

groups
<< key >> id: int
<< fkey >> a_id:int
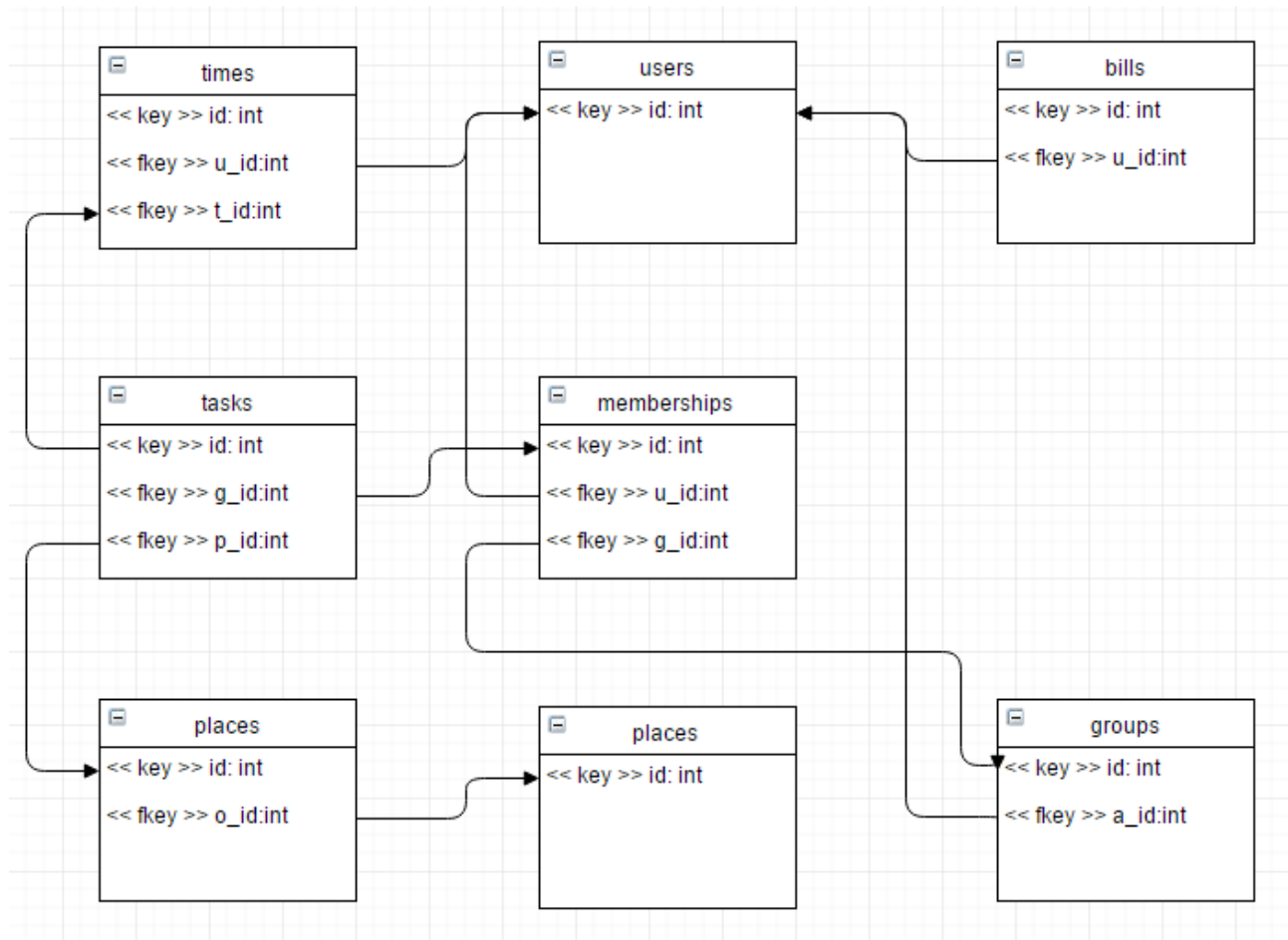
All other information is found from tables above.

Demo website

Demo is currently located at https://office.kummitus.ovh

Test credentials include but are not limited to

Username: test

Password: test

This user has admin access to the site, and has most options available for use.

Username: Henkilö 2

Password: test

This user is set to be a group leader and so has access to various tools available for him.

Regular users are not necessarily meant to be used as is but more like to act as actors to represent real life characters that are managed by admins/group leaders. Possible the software will function in the future in a way that will also allow individuals to do certain tasks.

All necessary pages are reachable via main navigation bar and the pages it contains.

Normally an admin user is created when the software is installed, then the users have to do necessary steps to insert basic information of tasks and locations and create groups. After that the use of software is quite straightforward and most actions are based on the home screen hour calculator and tasks page task viewer and adding relevant pictures with optional comments.

System structure

System is built around MVC-design pattern. Controllers, views and models are found from corresponding folders. Assets folder contains all fonts, images, stylesheets and custom JavaScript. Lib folder contains all necessary JS and PHP libraries. Utils folder has settings and routing table. Uploads folder will contain all user-uploaded material.

Most of the pages are available to all and only have admin features hidden and deactivated when user is not an admin.
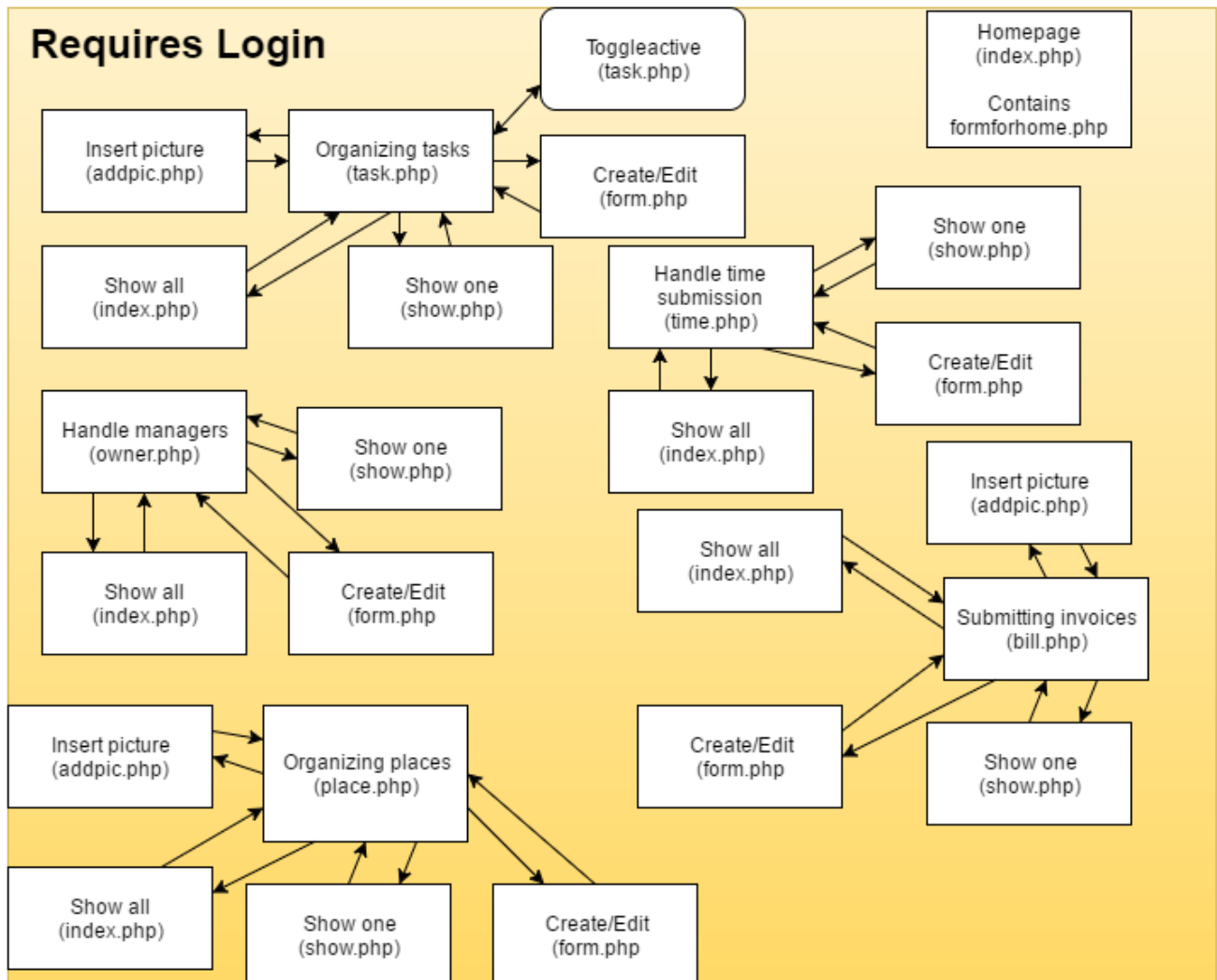
UI and system components

All main elements are reachable through the menu.

Public pages

Homepage
(index.php)

Contains login form

Requires Login

Toggleactive
(task.php)

Insert picture
(addpic.php)

Organizing tasks
(task.php)

Create/Edit
(form.php

Show all
(index.php)

Show one
(show.php)

Homepage
(index.php)

Contains
formforhome.php

Show one
(show.php)

Handle time
submission
(time.php)

Create/Edit
(form.php

Show all
(index.php)

Handle managers
(owner.php)

Show one
(show.php)

Insert picture
(addpic.php)

Show all
(index.php)

Create/Edit
(form.php

Show all
(index.php)

Submitting invoices
(bill.php)

Insert picture
(addpic.php)

Organizing places
(place.php)

Create/Edit
(form.php

Show one
(show.php)

Show all
(index.php)

Show one
(show.php)

Create/Edit
(form.php

Requires Admin

Create/Edit
(form.php

Show all
(index.php)

Managing groups
(group.php)

Create/Edit
(form.php

Managing users
(user.php)

Show one
(show.php)

Show one
(show.php)

Toggleactive
(task.php)

Show all
(index.php)