Vordiplom

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Mobile Communication App

***MoCap***



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# Management Summary

## What is MoCap

## System Context



## License addendum

# Requirements Engineering

## Technological requirements

## Technology Matrix

# Solution Documentation

## Interaction Components

### Interfaces

### Chat

### Project

### Task

A task represents a piece of work one has to accomplish, typically until a date specified. It can consist out of many other subtasks which, as a whole, represent specific work.

As an Example:

The task “Go Shopping” consists, of subtasks  
1. “Get milk, honey and wheat”   
2. “Fill-up Gas”

The task then is assigned to a project. In case a task contains subtasks, they automatically belong to the same project. You can enrich the task with a description and estimate its duration and cost. Additionally, you can specify alarms to be created if the due date is in danger. Once the alarm is raised, the owner can reassign the tasks to someone else or react on it by initiating a chat.

#### Manually assigning a task

Once a task is created and assigned to a project you can delegate it to any member of the project group. Manually assigned tasks do not consider the hours a person has dedicated to the project. Hence you need to make sure the task is assigned to a person dedicating enough time to this project or have the person to dedicate more time.

#### Poll assigning a task

You can assign a task through the result of a poll you created. To do that you create a project poll, through which members vote for the person to complete the task. Remember, that this method of assigning a task does not consider the hours, the person that got assigned to the task, has dedicated to this project.

#### Auto assigning a task

When selecting to auto assign the task, the due date and a priority define which person gets assigned to the task. The priority is used to determine the importance compared to other tasks this person may has been assigned to. The system then tries to find a project member that contributes enough time towards this project and has enough capacity to complete the task on time. In other words, if a task will take 5 hours to complete and has to be completed within 2 days, a project member contributing 1 hour a day will not be assigned to this task.

When completing the task, the person is requested to enter the time and money (if at any) spent on the task. The project owner is then notified of the completion and the project balance is updated accordingly.

#### Use Cases

The following Use Cases were identified:

### Poll

A poll allows users in your project to vote for one or multiple pre-defined option(-s), based on your configuration. In some scenarios it might be useful to allow user specifying an individual option, besides the ones pre-defined. The vote can be limited to a specific time / date range and the users eligible can be specified individually.

Once the poll has ended, which happens either after the date / time range specified elapsed or when every eligible user has voted, the results are being sent to either all, a specific group or the creator only.

If the poll was to vote for a task owner, both the current task owner as well as the future owner are notified together with the users specified and the owner of the poll. The task is then taken off the current user and assigned to the new user.

#### Use Cases

The following Use Cases were identified:

### Reporting

### Accounting

#### Balance

#### Bills

## Backend Components

### Database Module

#### Programmability

##### Stored Procedures

##### Views

##### Triggers

## WebService

### Functions

### Bindings

## Security Components

## Logging Components

# Technical Specification

## Interaction Components

### Interfaces

#### IComponent (Interface)

#### Task (Class)

##### Class Diagram

