Contents

Part I

Vision

1 Introduction

The purpose of this product is to provide a platform for efficient time utilization and project management for an iterative workflow.

2 Stakeholders

2.1 Clients

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2.2 Users

Project managers Employees throughout the organization

3 Key High-Level Goals and Problems for the Stakeholders

3.1 Problems

Modern organizations have a need for employees to schedule meetings with each other, to use time most efficiently Missing automatisation results in: organizations suffering from lack of frequent updates and incorrect schedules. Leads to difficulties in planning

3.2 Goal

A calender that encourages better utilization of time, and easier online interaction between workers A system which facilities automatisation to achieve more up to date schedules

4 User-Level Goals

To facilitate a better interoperative workflow through all levels of the organization Employee:

- Book a meeting with one or more co-workers
- Check availability of other employees
- Check position of other employees

- Receive invitations
- Update events Manager:
- Overview of employees to utilize time more efficiently
- Team-invite employees for meetings
- Email event-collaborators

5 Product Overview

5.1 Major features

- Online distributed calendar
- Support for a variety of devices
- Customizable
- Multiple colour themes
- Facilitates team collaboration with emphasis on iterative planning
- Instant on always available service
- Aggregation of a variety of existing service
- Realtime updates, like googledocs

6 Other Requirements and Constraints

See Supplementary Specification and Use cases

Part II

Use cases

7 User case list

7.1 Employee

- Book a meeting with one or more co-workers
- Check availability of other employees
- Check position of other employees
- Receive invitations
- Update events

7.2 Manager

- Overview of employees to utilize time more efficiently
- Team-invite employees for meetings
- Email event-collaborators

8 Use cases Brief Format

8.1 Employees

8.1.1 Book a meeting with one or more co-workers

- The Employee logs in to his calendar
- He finds the the specific time and date
- He checks whether the person he wants to schedule for a meeting is available at that time
- He books a meeting

8.2 Manager

8.2.1 Overview of employees to utilize time more efficiently

- Manager needs two of his employees for a specialized task
- Manager logs into main view of the calendar system, with a view of employee appointments over a specified timeframe
- He finds two suitable employees who are available in the same timeframe
- He books a the timeslot in both employees calendars

Part III
Supplementary specification

9 Functionality

- Features and Capabilities covered in Vision

10 Security

- Login/password is required by each user

11 Usability

- Every user of a given organization should be able to use the product to a satisfying extend with a maximum of two hours of training
- User manual

12 Reliability

- The product should have an uptime of 99.7
- In case of system failure it should be able to recover all data before the crash

13 Performance

- Response times - The product should have a response time at any given moment of no more than 3 seconds, with a mean time of 0.05 seconds
- Availability - the product should be available anywhere with a network connection

14 Supportability

14.1 Maintainability

- The product will run on a myriad of generic server solutions. The server should continue to work with future upgrades

14.2 Adaptability

14.3 Future

14.4 Internationalization

- The product is built with internationalization in mind, and will only need a minimum of additional configuration to be translated

15 Implementation

- Needs to work with all major desktop and mobile browsers

16 Interfaces

- Other location / event services
- GPS receiver in smartphones

17 Operations

- The system requires an employee/manager to function as a local administrator to handle password resetting, creating user profiles etc.

18 Operations contracts

18.1 Operation: Create Event(title, timeslot, description, location)

Cross References: none

Pre-conditions:

- user was logged in

Post Conditions

- event was created
- collaborators were notified.

18.2 Operation: Answer Invitation with Acceptance

Cross References: none

Pre-conditions:

- user was logged in
- event was created
- collaborators were notified

Post Conditions

- invitation was accepted

18.3 Operation: Answer Invitation with Refusal

Cross References: none

Pre-conditions:

- user was logged in
- event was created
- collaborators were notified

Post Conditions

- invitation was refused

19 Packaging

There are no packaging concern with this product, as it is transported and sold electronically

20 Legal

Tracking issues need to be looked at from legal perspective

21 A discussion of software attributes / qualities

21.1 Reliability

Our SuD should maintain a high reliability (99,7%) this will largely depend on the deployment server, but our architecture will facilitate this by allowing rolling upgrades without the system going offline

21.2 Performance

The performance requirements for our SuD is not constrained by our architecture. We will suffer a slight penalty by using a layered architecture, but this can be countered by better hardware server side. We consider this to be a justified tradeoff

21.3 security

Security aspects of our SuD will greatly benefit from our layered architecture. This provides good encapsulation. It's worth noting that the deploy server will always be a point of failure, so proper measures should be taken

Part IV

Glossary

Item	Definition and Information	Format	Validation Rules	Aliases
Event	Something that happens at a specific scheduled time: work, meeting, sing-along. Can have several participant. Has: ID, Title, description and a location	Text/date		
Geographical position	geographical position of the user, taken from mobile phone	gps coordinates		
User	A user of the system, and a creator and participant of events			
Invitation	"An invitation to an event. Can have several receivers but only one sender. Fills a timeslot. Can be accepted, rejected or unanswered. Has a Title and a messageBody, "	Text		
Response	"A response to an invitation. Can either be, Accepted or rejected. Has: message, time"			
TimeSlot	The time period associated with an event. Has start time + end time			
Calendar	"The main overview of the events. Has: Events"			