

BDSA

REQUIREMENT ANALYSIS DOCUMENT

Assignment #37

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Version	Date	Description	Authors
1.0	9/9-2014	First version of the document	ahaq, mikx, ppho

1 ACTORS

The actors identified in this section have been selected based on both users and back end system. The intermediary layers (if any) are also here

- **User** - The end user of the system, who wants to add calendars or events to his client.
- **Client/Front end** - The client program that the user uses to view his calendar.
- **Provider** - A provider is a user that provides calendar data to be used in the system. A user can subscribe to a calendar from a provider.

2 SCENARIOS

Add calendar

<i>Scenario name</i>	Add local calendar
<i>Participating actor</i>	<u>Bob:User</u>
<i>Flow of events</i>	<ul style="list-style-type: none">• Bob opens his client, and clicks the add calendar button• The client presents Bob with an option to add a local calendar, or a calendar from a network location (URL).• Bob adds a local calendar, and names it accordingly.• Bob can now view his newly added calendar.

Add event

<i>Scenario name</i>	Add local event
<i>Participating actor</i>	<u>Bob:User</u>
<i>Flow of events</i>	<ul style="list-style-type: none">• Bob opens his client, and clicks the add event button• The client presents Bob with a box to fill out information regarding the event, and the calendar to which Bob would like to submit the event.• Bob clicks add event.• Bob can now view his newly added event.

3 USE CASES

The list of use cases here is not exhaustive, but gives a general idea of the basic functionality the system should have. As we progress, it will be further developed. There is an overlap between both the user and the back end system on some of the cases, this is going to be clearly outlined in the diagram.

- **Add calendar**
- **Add event**
- **Add calendar from URL**
- **Remove calendar**
- **Remove event**
- **Unsubscribe from calendar**
- **Switch view day/week/month**

4. NON-TRIVIAL USE CASES

- **Select which calendars to view**

Subscribing to a calendar is a sub-case of adding af calendar. Unsubscribing is thus also a sub-case of removing a calendar.

3.1 DIAGRAM

4 NON-TRIVIAL USE CASES

Subscribe calendar

<i>Use case name</i>	SubscribeCalendar
<i>Participating actor</i>	Initiated by User
<i>Flow of events</i>	<ul style="list-style-type: none">• User clicks the add calendar button• User selects a subscription based calendar from the add calendar event• User adds URL• User can now view added calendar events in client
<i>Entry condition</i>	User clicks add calendar.
<i>Exit condition</i>	<ul style="list-style-type: none">• When user has successfully added a calendar.• User cancels the operation.

Add event

<i>Use case name</i>	AddEvent
<i>Participating actor</i>	Initiated by User
<i>Flow of events</i>	<ul style="list-style-type: none">• User clicks the add event button• User selects a calendar where the event will be added.• User types details for event, such as name, place, note.• User can now view event in selected calendar.
<i>Entry condition</i>	User clicks add event.
<i>Exit condition</i>	<ul style="list-style-type: none">• When user has successfully added an event.• User cancels the operation.

Remove event

<i>Use case name</i>	RemoveEvent
<i>Participating actor</i>	Initiated by User
<i>Flow of events</i>	<ul style="list-style-type: none">• User clicks an event• User selects remove/delete event from context menu.• Users even has now been removed.
<i>Entry condition</i>	User clicks an event.
<i>Exit condition</i>	<ul style="list-style-type: none">• When user has successfully removed an event.• User cancels the operation.

5 INITIAL ANALYSIS OBJECTS

User	The user that interacts with the system. Main function is adding Events and Calendars . Removal is also included.
Calendar	A Calendar holds the events for a given User . It can either be created by a User manually, or be provided via an URL for subscription from a Provider .
Event	A User is able to add an event to his Calendar . An event can only be added to a local calendar, or a calendar that a user owns. An event can also be removed, and again only a user made calendar.
Provider	A provider can upload a Calendar to the system, and a User is then able to add this calendar and view Events from it.

6 NON-FUNCTIONAL REQUIREMENTS

- A User must be able to successfully add a calendar in less than 30 seconds, typing excluded.
- A User must be able to add an event in less than 60 seconds, typing excluded.
- A Provider must be able to add a calendar and publish it in less than 60 seconds, bandwidth and typing excluded.