

# MeteoCal

Pensa,Pini,Pintus  
Testing Document

## Non-Functional Tests

Target	Sign into MeteoCal
Operating setting	Home page
Input	The user inserts name, surname, email and password (twice) in the sign in form
Expected result	The user is signed in and a confirmation message appears. The user should receive also a confirmation email.
Obtained result	The user is signed in and the confirmation message appears. The email account receives an email from Meteocal, which confirms the successful registration
Final result	The user is in the home page and can log into Meteocal
Concluding remarks	Whether the inputs are not correct or the user is already signed into Meteocal, a specific error message appears

Target	Event creation
Operating setting	Event creation page
Input	The user inserts event name, description, begin time, end time, public (or not), outdoor (or not), location and invitees.
Expected result	The event is created correctly and the invitees receives an invitation. The invitees should receive also a notification via email.
Obtained result	The event is created correctly and the invitees receives the invitation. The email accounts receive an email from Meteocal, which notifies that they received an invitation for an event in Meteocal.
Final result	The user is in his calendar page and he can see the event in his calendar.
Concluding remarks	If the creator has another event at the same time an error message is shown and he remains in the event creation page.

Target	Accept an invitation
Operating setting	Notification page
Input	The user clicks on the invitation, and selects “accept” button in the pop up displayed
Expected result	The invitation disappears and the event is added in the user calendar
Obtained result	The invitation disappears and the event is added in the user calendar
Final result	The user is in the notification page: going into his calendar page he finds out that the event is successfully added to his calendar
Concluding remarks	If the user has another event overlapped to the event, the system does not allow him to accept the invite until he deletes the participation at the other event.

Target	Change event info
Operating setting	Event page
Input	The user (creator) clicks on “change event info”, fulfills the change event info form (as he did when the event was created) and clicks on “save”.
Expected result	The event details change and all participants (except for the creator which of course knows that the event has changed) are notified via Meteocal and also via email.
Obtained result	The event details change and all participants receives both notifications.
Final result	The user is in the event page, which displays all details of the event, the Google map of the location of the event, and the list of participants.
Concluding remarks	If there are problems during the procedure, the user should be redirected to the event page with an error message. In particulare he could see a warning message if some user were not invited (some email in input do not exist) or if the event changing has introduced some overlap of events in his calendar.

Target	Deny an invitation
Operating setting	Notification page
Input	The user clicks on the invitation, and selects “deny” button in the pop up displayed
Expected result	The invitation disappears and the event is not added in the calendar
Obtained result	The invitation disappears and the event is not added in the calendar
Final result	The user is in the notification page: going into his calendar page he does not find the event in his calendar
Concluding remarks	Nothing else.

Target	Delete an event
Operating setting	Event page
Input	The user (creator) clicks on “change event info” and clicks on “delete”.
Expected result	The event is deleted, and disappears from the user calendars that participated to that event
Obtained result	The event is deleted, and disappears from the user calendars that participated to that event
Final result	The user was shown his calendar page and the event deleted is not in his calendar
concluding remarks	Nothing else.

Target	Find a public user calendar
Operating setting	User calendar page
Input	The user writes in the search bar the name of the user to be found
Expected result	A list containing at least the user searched and a link to his calendar
Obtained result	A list containing at the user searched and a link to his calendar
Final result	The user is in the search page, which is listing all results
Concluding remarks	Clicking on the researched user link, the user can open and see his calendar

Target	Export calendar
Operating setting	Setting page
Input	The user clicks (in the export form) on the image representing the file format in which he wants to export his calendar.
Expected result	The user downloads his calendar
Obtained result	The user downloads his calendar
Final result	The user is in the settings page
Concluding remarks	Nothing else.

Target	Import calendar
Operating setting	Setting page
Input	The user clicks (in the import form) on “choose” and chooses the file to upload
Expected result	The user uploads his calendar and a confirmation message is displayed
Obtained result	The user uploads his calendar and the confirmation message is displayed
Final result	The user is in the settings page and the calendar is visible in his calendar page
Concluding remarks	Weather there are formatting problems or some events are no longer existing the calendar will not be updated and an error message is displayed.

Target	Change calendar privacy
Operating setting	Setting page
Input	The user clicks on “make calendar private”
Expected result	The user is redirected to his calendar page, and a notification message will be displayed
Obtained result	The user is redirected to his calendar page, and a notification message is displayed
Final result	The calendar becomes private and no other user can see his calendar
Concluding remarks	Nothing else

Target	See event details (public event)
Operating setting	User page
Input	The user clicks on the event in a calendar and then clicks on the “go in event page” button in the pop up displayed
Expected result	The user can see the event page with all details
Obtained result	The user see the event page with all details
Final result	The user is in the event page
Concluding remarks	If the event is private, the “go in event page” button is disabled. Furthermore, the pop up shows no details.

# Functional Tests

Accordingly to the division of business logic we did during implementation, we decide to test exclusively the “control” classes; we do not need to test Beans work, because it can be easily checked through the user interface. We assume that, what really makes the dirty job, is the “control” part, which is directly interfaced with persistent data; to do that tests, we used Arquillian test classes.

The control class tested are

- Event Manager, which manipulates events and all their information
- Guest Manager, which controls registration and recovery functions
- Searching Manager, which manage search results and contact list
- User Manager, which manipulates all user datas (settings, calendar import/export and time consistency of events into his calendar, and notifications)

Through these tests, we checked also the functionalities of the Password Encrypter and Token Manager.

We could not test, of course, the Email Sender and the Weather Manager because they use external services, but we checked their work through user-interface testing.

We noticed that the Email Sender, which is controlled by Google services, sometimes “blocks” the account, maybe when it finds out that the application is sending to many emails, but we could do not test anything.

Changing the email address, the Email Sender re-starts to work fine, so we assume that everything is ok.

The Weather Manager insted, works fine and we did not find any problem with Yahoo APIs.



## Working Hours Schedule

	Pensa	Pini	Pintus	h/sect
Setup Tools	4	5	5	14
Data Layer Implementation	38	35	50	123
Business Logic Implementation	52	72	57	181
Web Tier Implementation	65	54	53	172
User Interface Implementation	7	5	12	24
Unit and Integration Testing	13	24	10	47
Setup, User Manuals	2	2	0	4
h/pers	181	197	187	564