

Politecnico di Milano



SOFTWARE ENGINEERING 2

MeteoCal

Testing report

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Contents

1	Introduction	4
2	Events	5
2.1	Creation of event	5
2.1.1	Past beginning date	5
2.1.2	Past beginning date	7
2.1.3	Missing form fields	8
2.1.4	Overlapping event	9
2.1.5	Creation of legal event	10
2.1.6	Creation of legal event again	12
2.1.7	Closest sunny day suggestion in case of bad weather	14
2.2	Event update	16
2.2.1	Remove an invited user or a participant	16
2.2.2	Update an event	19
2.2.3	Update an event changing dates	21
2.3	Delete event	23
2.3.1	Delete event	23
2.4	Invitations	26
2.4.1	Receive an invitation	26
2.4.2	Accept invitation	27
2.4.3	Refuse invitation	28
2.4.4	Remove event after accepting	29
3	Notifications	30
3.1	Main functionalities	30
3.1.1	Email notifications	30
3.1.2	System notifications	30
3.2	Read notifications	30
3.3	Notification counter	30
3.4	Weather alerts	30
3.4.1	Changed weather conditions	30
3.4.2	Bad weather alert	31
3.4.3	Closest sunny day suggestion	31
4	Search	33
4.1	Embedded search	33
4.1.1	Users	33
4.1.2	Events	34
4.2	User's profiles	35
5	Favorites	36
5.1	Main functionalities	36
5.1.1	Add favorite	36
5.1.2	Remove favorite	38

5.2	Manage favorites	39
5.2.1	Delete favorites	39
6	Security	40
6.1	Login/Logout	40
6.1.1	Registration fail 1	40
6.1.2	Registration fail 2	41
6.1.3	Registration fail 3	42
6.1.4	Registration fail 4	43
6.1.5	Registration	44
6.1.6	Password recovery fail	45
6.1.7	Password recovery	45
6.1.8	Login fail	47
6.1.9	Login	48
6.1.10	Login with redirect	49
6.1.11	Logout	50
6.1.12	Reserved pages	51
6.2	Event details	53
6.2.1	Private event, unauthorized user	53
6.2.2	Participant/invited user	54
6.2.3	Creator user	56
6.2.4	Public event, unrelated user	58
6.3	Event update	59
6.3.1	Creator user	59
6.3.2	Quick edit, creator user	60
6.3.3	Other user	61
6.3.4	Quick edit, other user	62
6.4	User's profile	63
6.4.1	Private calendar	63
6.4.2	Public calendar	64
7	Settings	66
7.1	Import/Export	66
7.1.1	Import events with overlapping	66
7.1.2	Import events with date error	68
7.1.3	Import events with wrong format file	69
7.1.4	Import events with corrupted file	70
7.1.5	Import events	71
7.1.6	Export events	73
7.2	User's settings	74
7.2.1	Change image	74
7.2.2	Change theme	75
7.2.3	Change password fail	76
7.2.4	Change password fail1	77
7.2.5	Change password	78
7.2.6	Change data fail	80
7.2.7	Change data	81

7.2.8 Change calendar visibility	82
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1 Introduction

We decided not to report any automated test of our project mainly because the size of the project is very small and we have not enough time to perform them in an appropriate way, some tests we could have done would have been completely useless (e.g. checking that a method in a control is effectively called by the boundary).

Hence in this document we are reporting some manual tests we made to ensure the absence of eventual bugs in our application.

2 Events

2.1 Creation of event

2.1.1 Past beginning date

In this test we simulate that the user tries to type into the form to create an event with past beginning date. The form validation prevents the user from typing date/time with the keyboard and allows the selection only of future date/time.

This works both on the page to create events and on the quick creation panel in user's home page.

The screenshot shows a web-based event creation interface. On the left, there are several input fields with labels: 'Starting time *' (containing '01/19/2015 19:45'), 'End time *', 'Address', 'City', 'Weather', 'Location additional info', 'Visibility *', and 'Type *'. To the right of these fields is a date and time selector. The date part is a calendar for January 2015, with the 19th highlighted in blue. The time part shows 'Time 19:45' with sliders for 'Hour' and 'Minute' set to 19:45. The entire interface is contained within a light gray box.

Figure 1: Page to create event

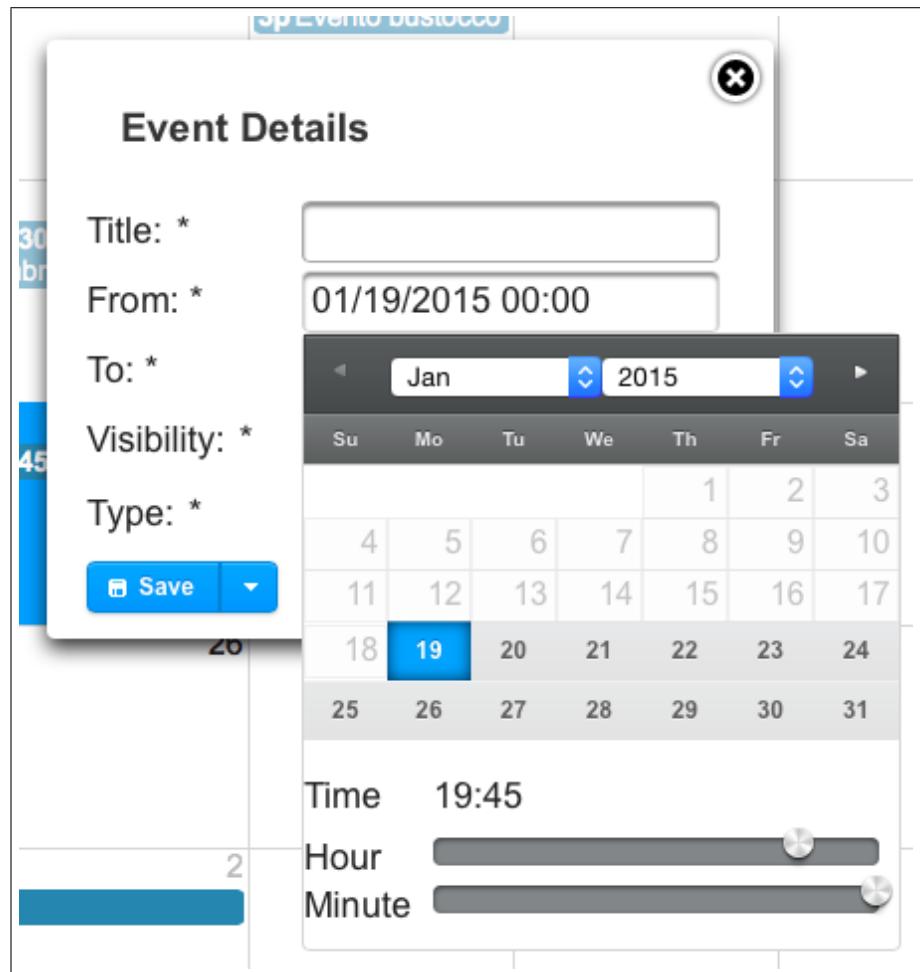


Figure 2: Quick creation from calendar

2.1.2 Past beginning date

In this test we simulate that the user tries to type into the form to create an event with end date/time which is before the starting date/time. The form validation prevents the user from typing date/time with the keyboard and every time the user selects a starting date/time, the ending date/time is automatically updated to the next half an hour the selected starting date/time

This works both on the page to create events and on the quick creation panel in user's home page.

Starting time *	01/23/2015 13:45
End time *	01/23/2015 14:15
Address	<input type="text"/>
City	<input type="text"/>
Weather	<input type="text"/>
Location additional info	<input type="text"/>
Visibility *	Time 14:15
Type *	Hour <input type="text"/>
Invite users	Minute <input type="text"/>

Figure 3: Page to create event

2.1.3 Missing form fields

In this test we simulate that the user tries to create an event without filling all mandatory fields. As is it possible to see in the following image, the form validation prevents this and an error message is shown:

Create event

Title: *	<input type="text"/>	☒ Title: Validation Error: Value is required.
Description	Test missing fields	
Starting time *	01/23/2015 13:45	
End time *	01/23/2015 14:15	
Address	<input type="text"/>	
City	<input type="text"/>	
Weather	Please insert start date/time and city.	
Location additional info	<input type="text"/>	
Visibility *	<input type="text"/>	☒ Visibility: Validation Error: Value is required.
Type *	<input type="radio"/> Indoor <input type="radio"/> Outdoor	☒ Type: Validation Error: Value is required.
Invite users	<input type="text"/>	
Create		

* Mandatory fields

Figure 4: Missing form fields

In the quick creation of events, an event is simply not created if something is missing.

2.1.4 Overlapping event

In this test we simulate that the user tries to create an event which overlaps to another. A message is shown after the user submits the form and the event is not created:

Create event

Title: *	Test overlapping
Description	This event should overlap with another
Starting time *	01/20/2015 20:00
End time *	01/20/2015 20:30
Address	
City	Novara
Weather	Forecast for Novara on 20 Jan 2015: AM Clouds/PM Sun, with high of 8.0°C and low of -2.0°C
Location additional info	
Visibility *	Private
Type *	<input checked="" type="radio"/> Indoor <input type="radio"/> Outdoor
Invite users	ate cwd+johnappleseed
<input checked="" type="checkbox"/> This event overlaps with an existing one!	
Create	

Figure 5: Overlapping message

In the quick creation of events, an event is simply not created if it overlaps. Obviously we tested various situations, such as the new event end is after another event starts, the new event starts before another event ends, two events are nested.

2.1.5 Creation of legal event

In this test we simulate that the user finally succeeds in creating the event, which does not overlap with any other of the same user, with legal dates, complete with all form fields. In the following images we can see the form for the creation and the final result:

Create event

Title: *	Test legal event
Description	This event is legal!
Starting time *	01/22/2015 19:00
End time *	01/22/2015 19:30
Address	Via Golgi, 40
City	Milano
Weather	Forecast for Milano on 22 Jan 2015: AM Light Rain, with high of 7.0°C and low of 1.0°C
Location additional info	Building 40
Visibility *	Private
Type *	<input checked="" type="radio"/> Indoor <input type="radio"/> Outdoor
Invite users	oleseed@gmail.com * mail.com *
Create	

Figure 6: Creation

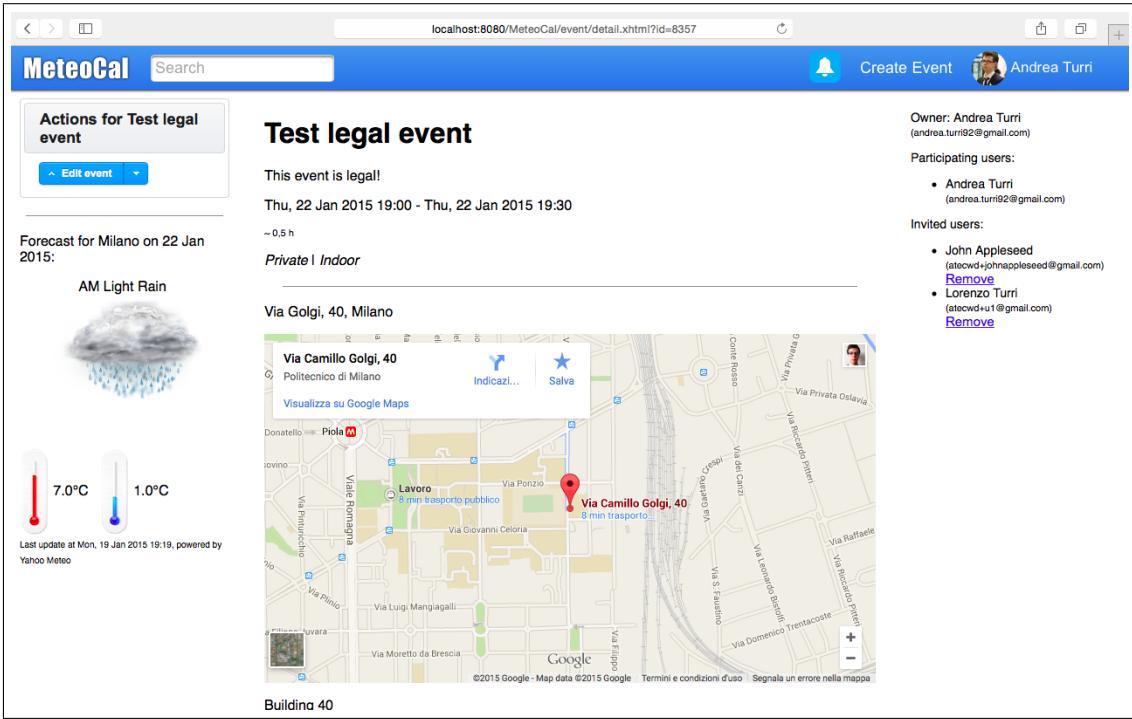


Figure 7: Result

As is it possible to see, the event's details page contains all the specified data, the two invited users and the weather forecasts that were available.

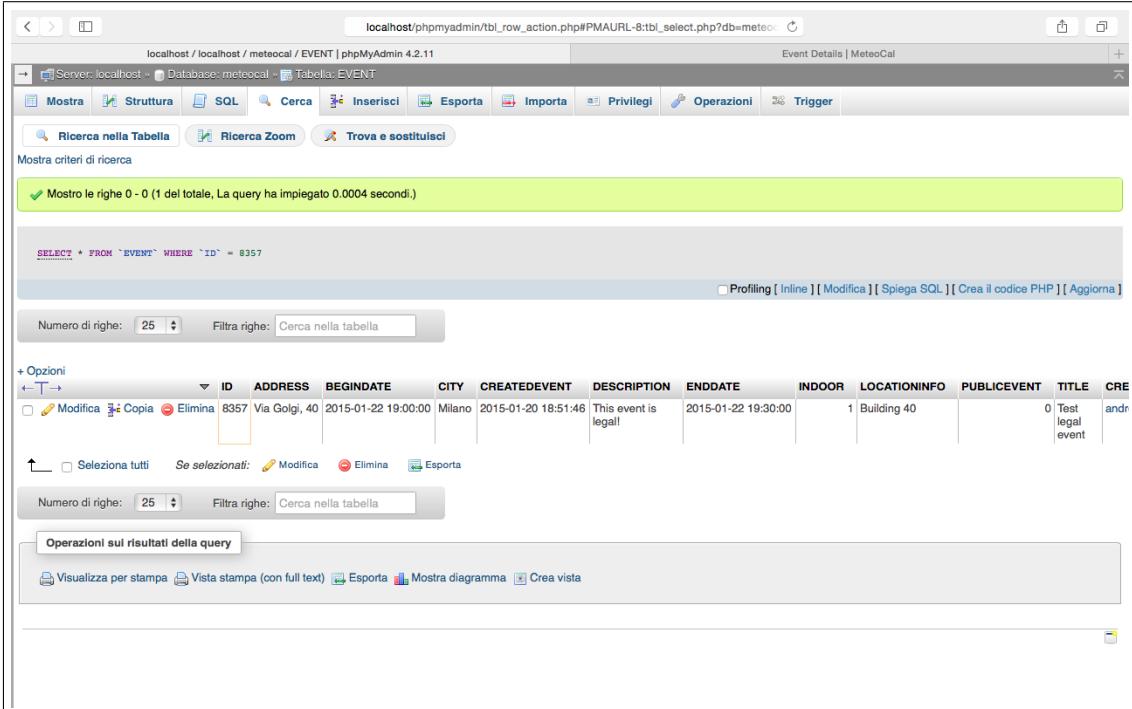


Figure 8: Database result

2.1.6 Creation of legal event again

In this test we simulate that the user creates an event with only the minimum event's information. In the following images we can see the form for the creation and the final result:

The screenshot shows a modal dialog titled "Event Details". The form contains the following fields:

- Title: * Test minimum
- From: * 01/20/2015 00:00
- To: * 01/20/2015 00:30
- Visibility: * Private
- Type: * Indoor Outdoor

At the bottom left is a "Save" button with a disk icon.

Figure 9: Creation

The screenshot shows the event detail page for "Test minimum". The page includes the following information:

- Actions for Test minimum**: Includes a "Edit event" button.
- Test minimum**: The event title.
- Dates and Duration**: Tue, 20 Jan 2015 00:00 - Tue, 20 Jan 2015 00:30, ~0.5 h.
- Type**: Private | Indoor.
- Owner**: Andrea Turri (andrea.turri92@gmail.com)
- Participating users**: Andrea Turri (andrea.turri92@gmail.com)
- Invited users**: None listed.

Figure 10: Result

As is it possible to see, the event's details page contains all the specified data, the map and forecasts are not available.

2.1.7 Closest sunny day suggestion in case of bad weather

In this test we simulate that the user creates an event and selects a date and location where there will be bad weather. The system should be able to find the closest sunny day:

The screenshot shows a web browser window for the MeteoCal application at localhost:8080/MeteoCal/event/edit.xhtml?id=8357. The page title is 'Edit event'. The form fields are as follows:

- Title: * Test legal event
- Description: This event is legal!
- Starting time * 01/22/2015 19:00
- End time * 01/23/2015 19:30
- Address: Via Golgi, 40
- City: Milano
- Weather: Forecast for Milano on 22 Jan 2015: Rain, with high of 7.0°C and low of -1.0°C
- Location additional info: Building 40
- Visibility * Private
- Type * Indoor Outdoor
- Invite users: (empty input field)

A blue button labeled 'Save' with a dropdown arrow is at the bottom left. A note at the bottom says '* Mandatory fields'. A yellow warning icon in a box on the right side of the form states: "There is bad weather for the time and location you chose! But MeteoCal found good weather on 23 Jan 2015: Sunny, with high of 12.0°C and low of 0.0°C". The top right of the screen shows a user profile for 'Andrea Turn'.

Figure 11: Suggestion

```
[  
  {  
    "code": "11",  
    "date": "21 Jan 2015",  
    "day": "Wed",  
    "high": "6",  
    "low": "3",  
    "text": "PM Light Rain"  
  },  
  {  
    "code": "12",  
    "date": "22 Jan 2015",  
    "day": "Thu",  
    "high": "7",  
    "low": "-1",  
    "text": "Rain"  
  },  
  {  
    "code": "32",  
    "date": "23 Jan 2015",  
    "day": "Fri",  
    "high": "12",  
    "low": "0",  
    "text": "Sunny"  
  },  
  {  
    "code": "34",  
    "date": "24 Jan 2015",  
    "day": "Sat",  
    "high": "11",  
    "low": "3",  
    "text": "Mostly Sunny"  
  }]
```

Figure 12: JSON parsed

2.2 Event update

2.2.1 Remove an invited user or a participant

In this test we simulate that the creator of the event removes an user from the list of invited users and then from the participants:

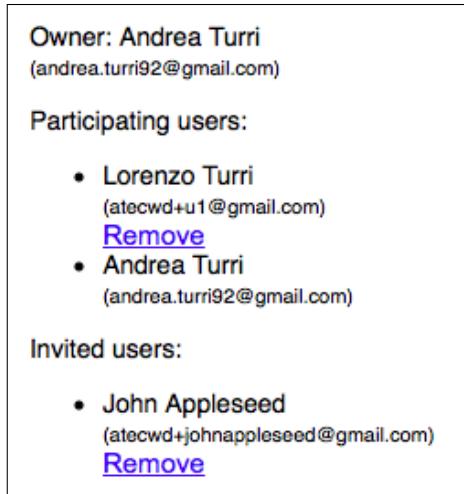


Figure 13: Remove invited user

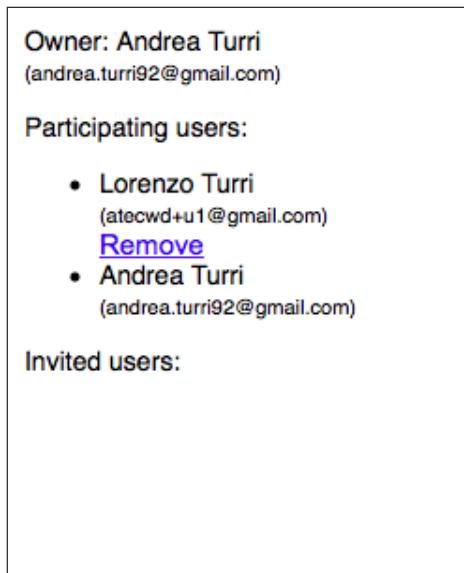


Figure 14: Removed invited user

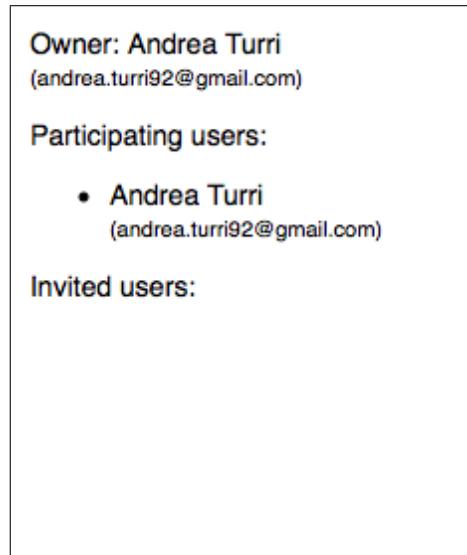


Figure 15: Removed participant user

It is not possible to remove from participants the creator of the event.
As it possible to see in the following image, the event has been removed also from the calendar of the participant:

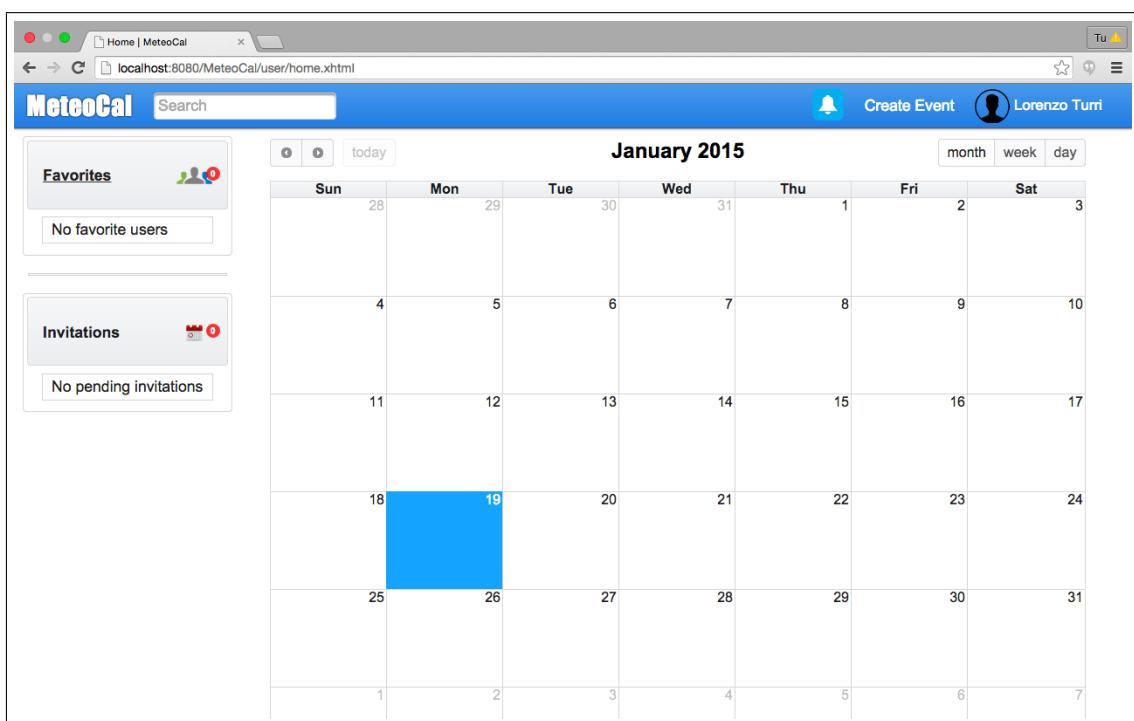


Figure 16: Removed event

...and there is no longer the invitation for the other user:

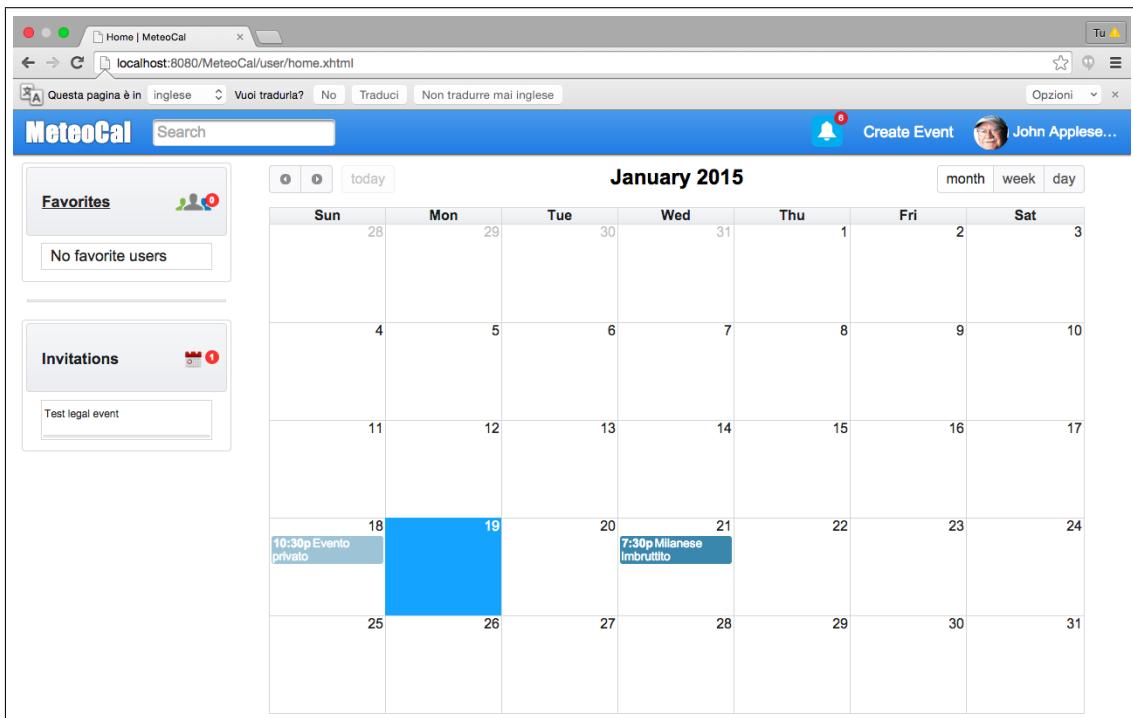


Figure 17: Removed invitation

2.2.2 Update an event

In this test we start from the following situation:

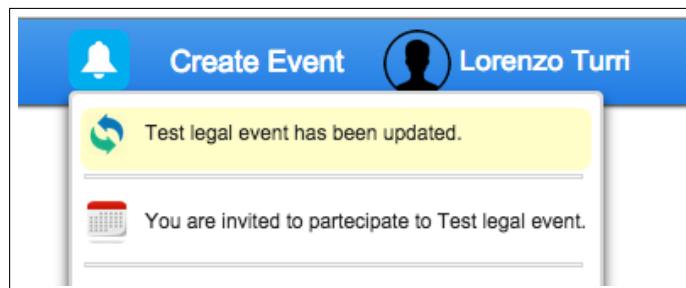
The screenshot shows the MeteoCal application interface. At the top, there's a header with the title 'MeteoCal' and a search bar. Below the header, the main content area displays an event titled 'Test legal event'. The event details include the date (Thu, 22 Jan 2015 19:00 - Thu, 22 Jan 2015 19:30), duration (~0.5 h), location (Private I Indoor, Via Golgi, 40, Milano), and a weather forecast for Milan (AM Light Rain, 7.0°C to 1.0°C). On the right side, there's a sidebar with user information: Owner (Andrea Turi), Participating users (Lorenzo Turi, Andrea Turi), and Invited users (John Appleseed). A map of the event location is also present.

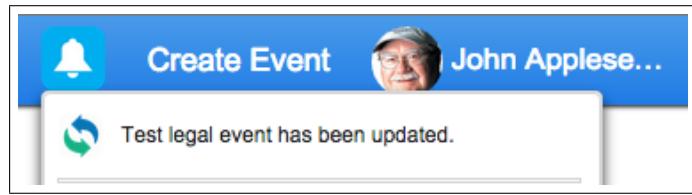
Figure 18: Event

we want to edit the event, it is very similar to the creation of the event, so we omit details and final result. Only note that users that are participants or already invited (without replying) cannot be invited a second time and the system doesn't permit to insert them again.



As it is possible to see, the notification is received by both invited users and participants, excluding the creator:





2.2.3 Update an event changing dates

In this test we start from the following situation:

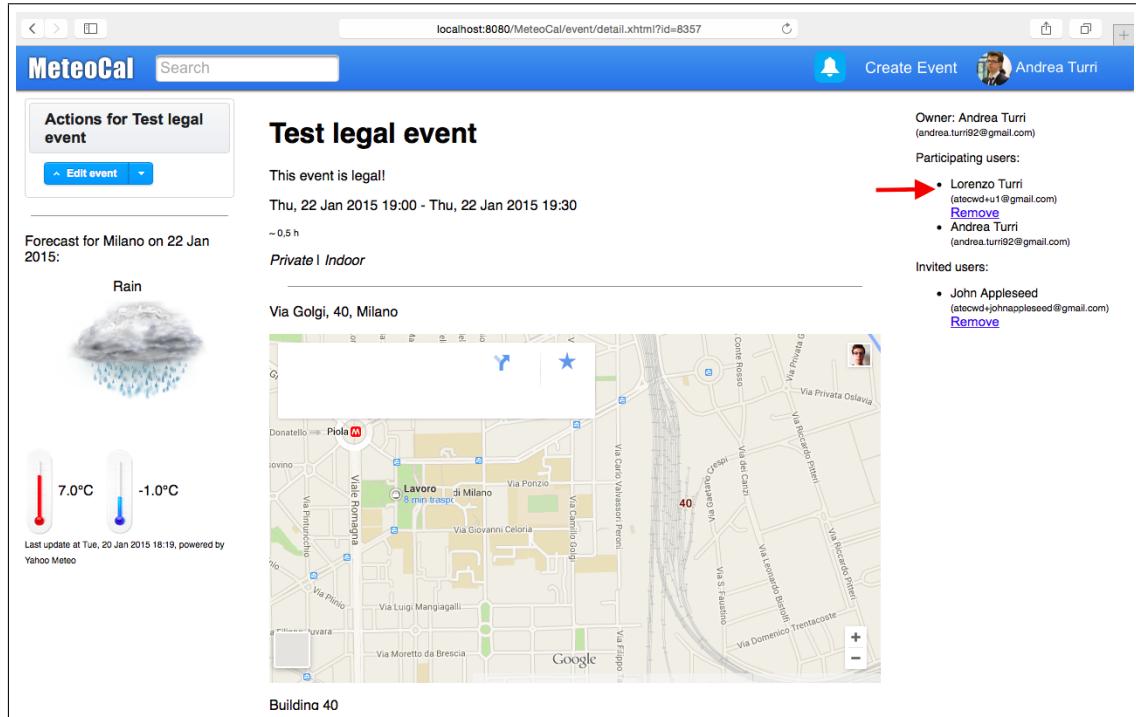


Figure 19: Event

...we change the date of the event, so we expect that all participant users (except for the creator) are removed and reinvited in order to reaccept the new date (and avoid also overlapping events):

localhost:8080/MeteoCal/event/detail.xhtml?id=8357

MeteoCal Search

Create Event Andrea Turrī

Actions for Test legal event

[Edit event](#)

Test legal event

This event is legal!

Fri, 23 Jan 2015 19:00 - Fri, 23 Jan 2015 19:30

~0.5 h

Private | Indoor

Forecast for Milano on 23 Jan 2015:

Sunny



12.0°C 0.0°C

Last update at Tue, 20 Jan 2015 18:19, powered by Yahoo Meteo

Via Golgi, 40, Milano



Owner: Andrea Turrī (andrea.turri92@gmail.com)

Participating users:

- Andrea Turrī (andrea.turri92@gmail.com)

Invited users:

- John Appleseed (stecwd+johnappleseed@gmail.com) [Remove](#)
- Lorenzo Turrī (stecwd+lu1@gmail.com) [Remove](#)

Building 40

Figure 20: Event after update

2.3 Delete event

2.3.1 Delete event

In this test the creator of the event deletes it, it is removed from his calendar:

The screenshot shows a web-based application interface for 'MeteoCal'. At the top, there's a header bar with the MeteoCal logo, a search bar, and a 'Create Event' button. On the right, a user profile for 'Andrea Turr' is shown. Below the header, the main content area displays an event titled 'Test legal event'. The event details include: 'This event is legal!', 'Thu, 22 Jan 2015 19:00 - Thu, 22 Jan 2015 19:30', 'Forecast for Milano on 22 Jan 2015: AM Light Rain', '7.0°C / 1.0°C', and a map showing the location at 'Via Camillo Golgi, 40, Milano'. The map includes a red marker at the address and shows surrounding streets like Via Ponzia, Via Giovanni Celoria, and Via Luigi Mangiagalli. On the right side of the event details, there are sections for 'Owner', 'Participating users', and 'Invited users', each listing names and email addresses with a 'Remove' link next to each entry.

Figure 21: Event to be deleted

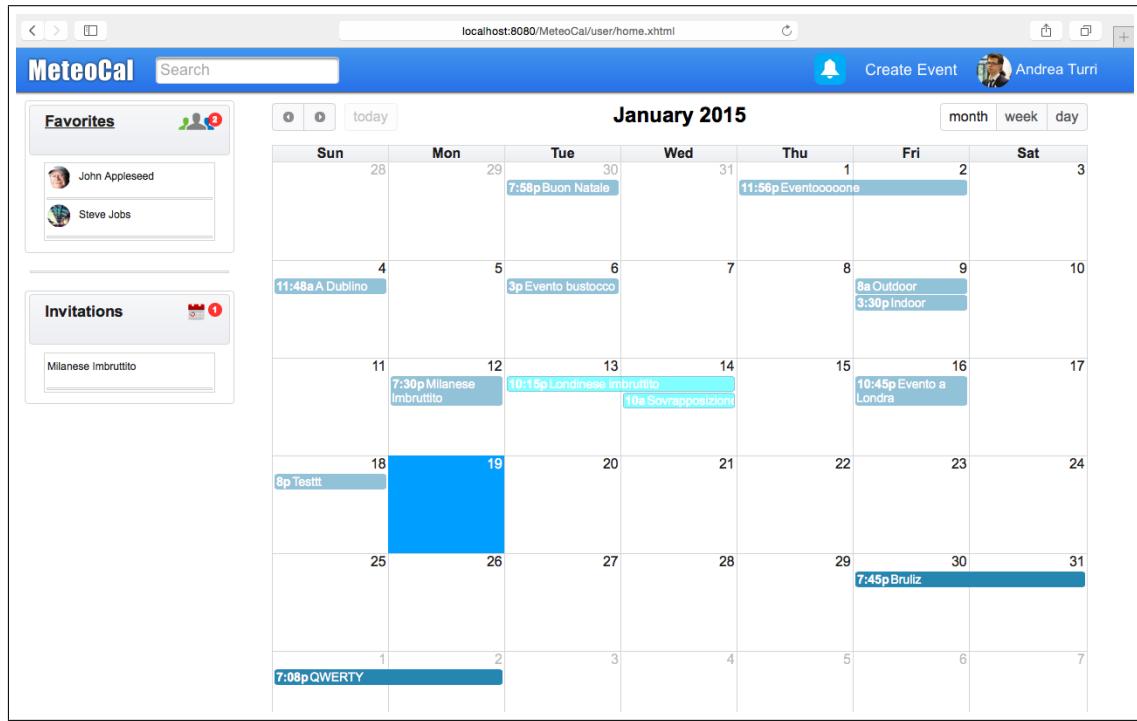


Figure 22: Calendar of user after deletion

...every invitation is deleted and it is removed from the calendar of every participant:

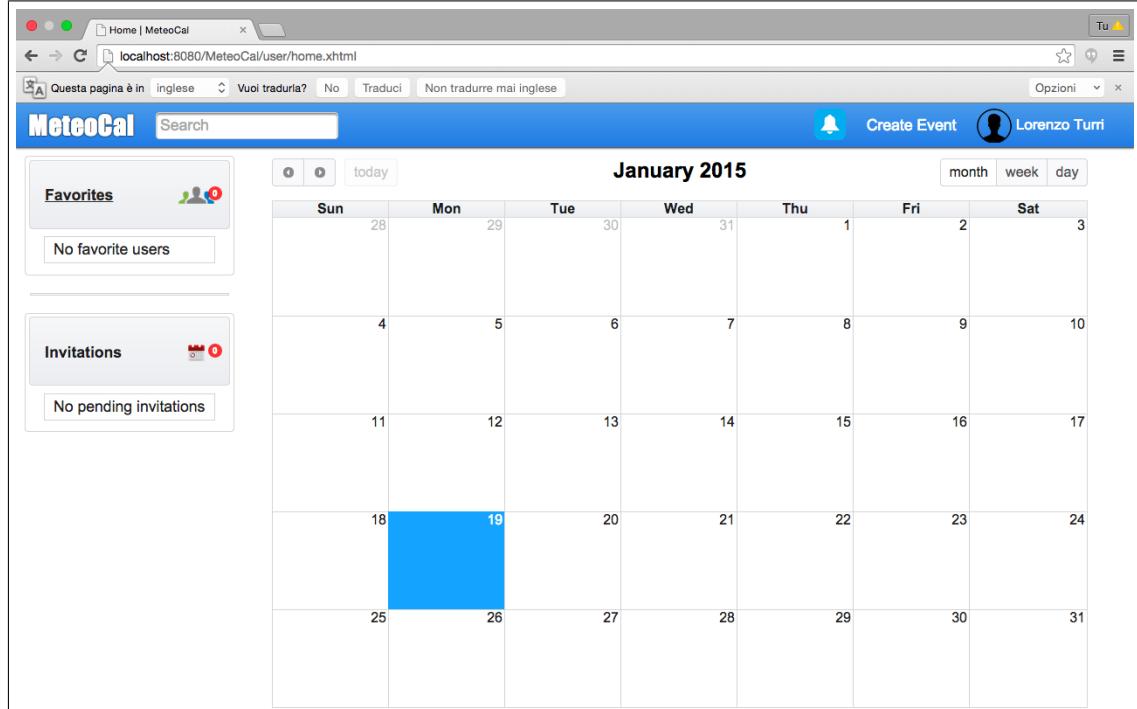


Figure 23: Calendar of a participant after the deletion

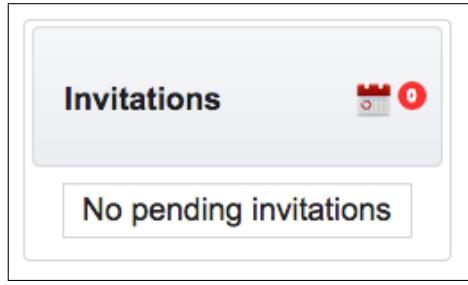


Figure 24: List of invitations for a user that was invited

...and this is the email notification that every user (except for the creator) receives:

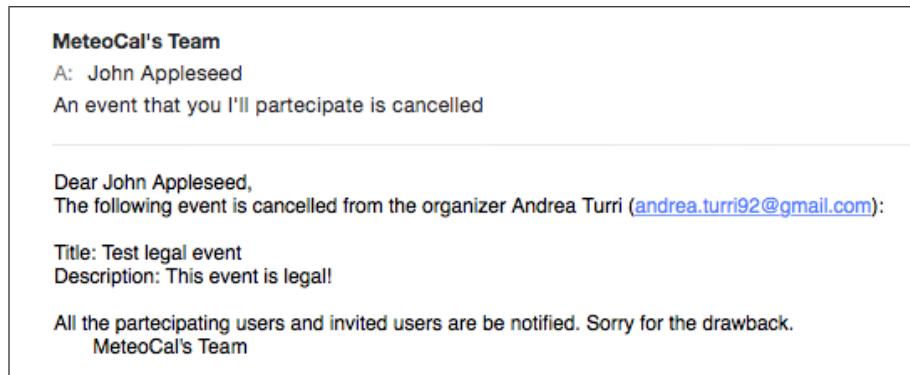


Figure 25: Email notification for deletion

2.4 Invitations

2.4.1 Receive an invitation

In this test the user receives a notification after being invited to join an event:

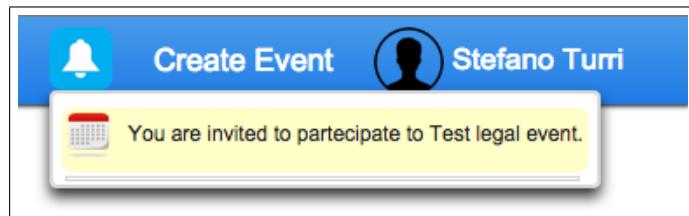


Figure 26: Notification

...and there is the invitation in the list:

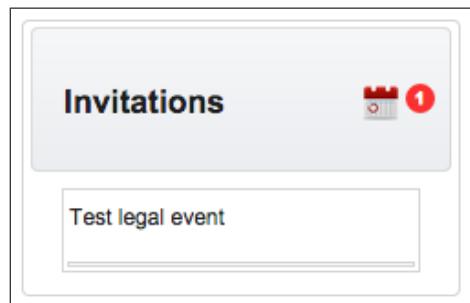


Figure 27: List of invitations for a user that was invited

2.4.2 Accept invitation

In this test the user accepts the invitation, he is moved to the list of participants, the event is in user's calendar and there is no longer the invitation in the list in home page:

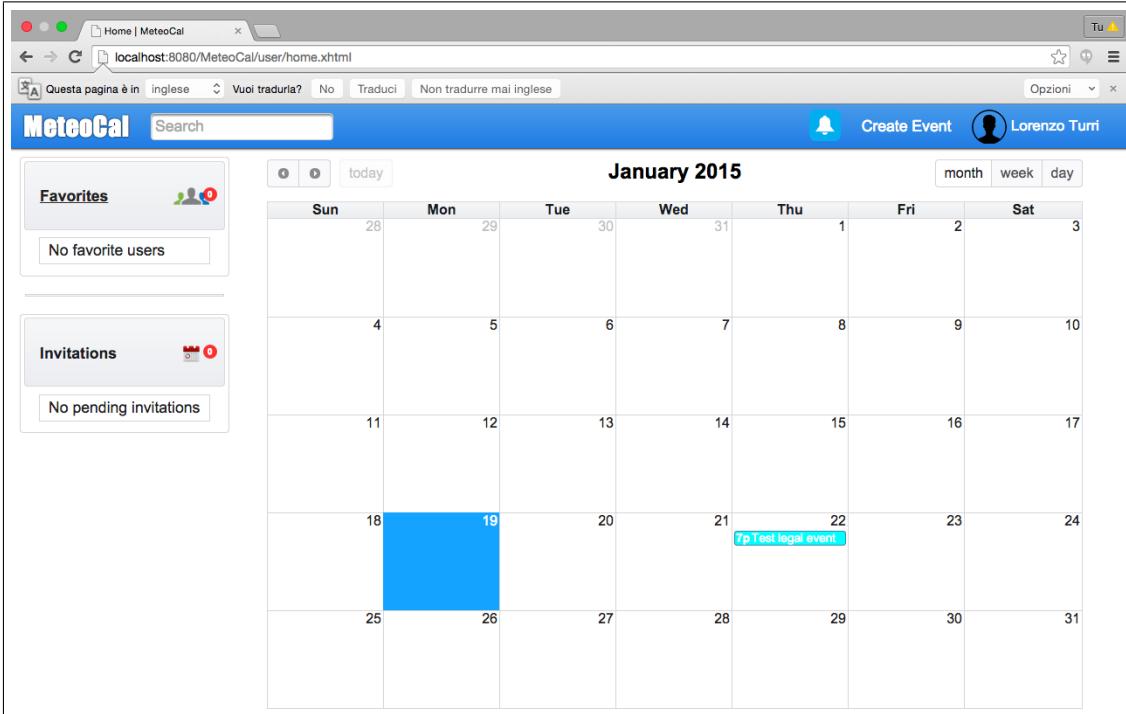


Figure 28: Calendar of user after accepting invitation

In case there is an event for the user that overlaps with the one to be accepted, when the user clicks on the button to accept will see this message:

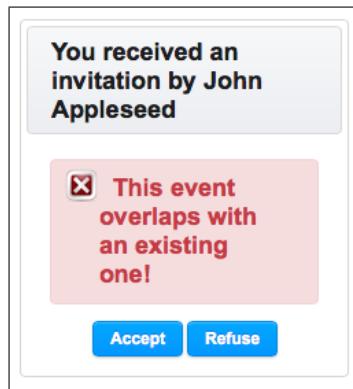


Figure 29: Error message

2.4.3 Refuse invitation

In this test the user refuses the invitation, he is removed from the list of invitations and there is no longer the invitation in the list in home page:

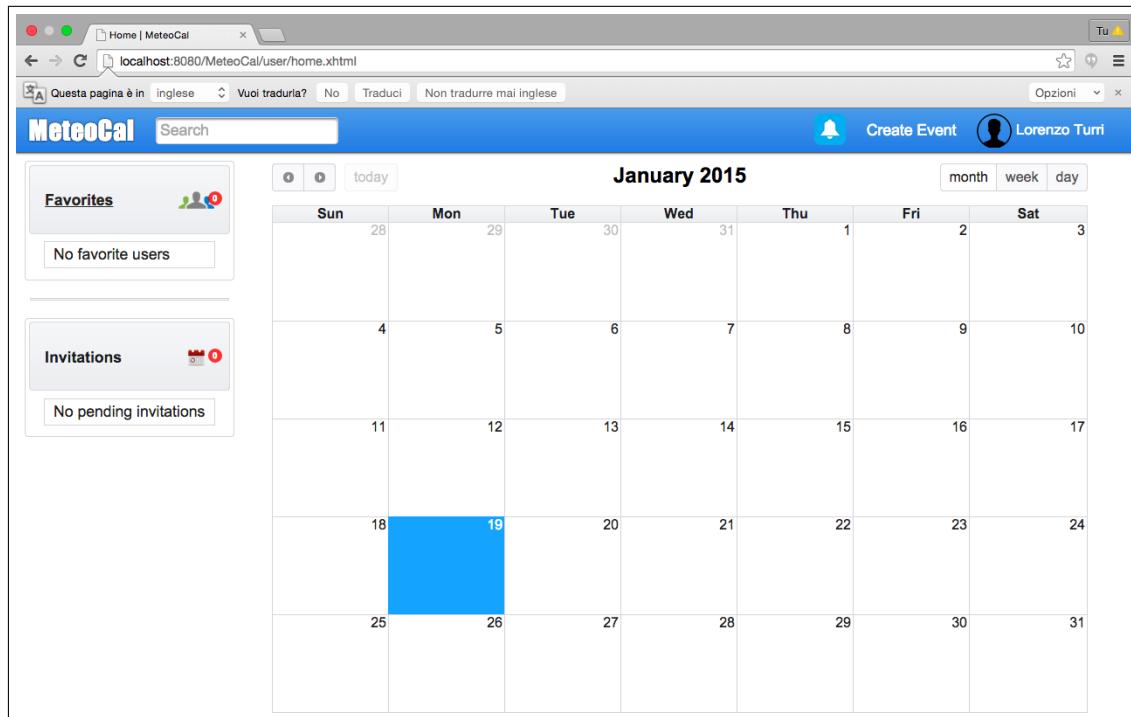


Figure 30: Calendar of user after refusing invitation

2.4.4 Remove event after accepting

In this test, the user, after having accepted the invitation, removes the event from his calendar:

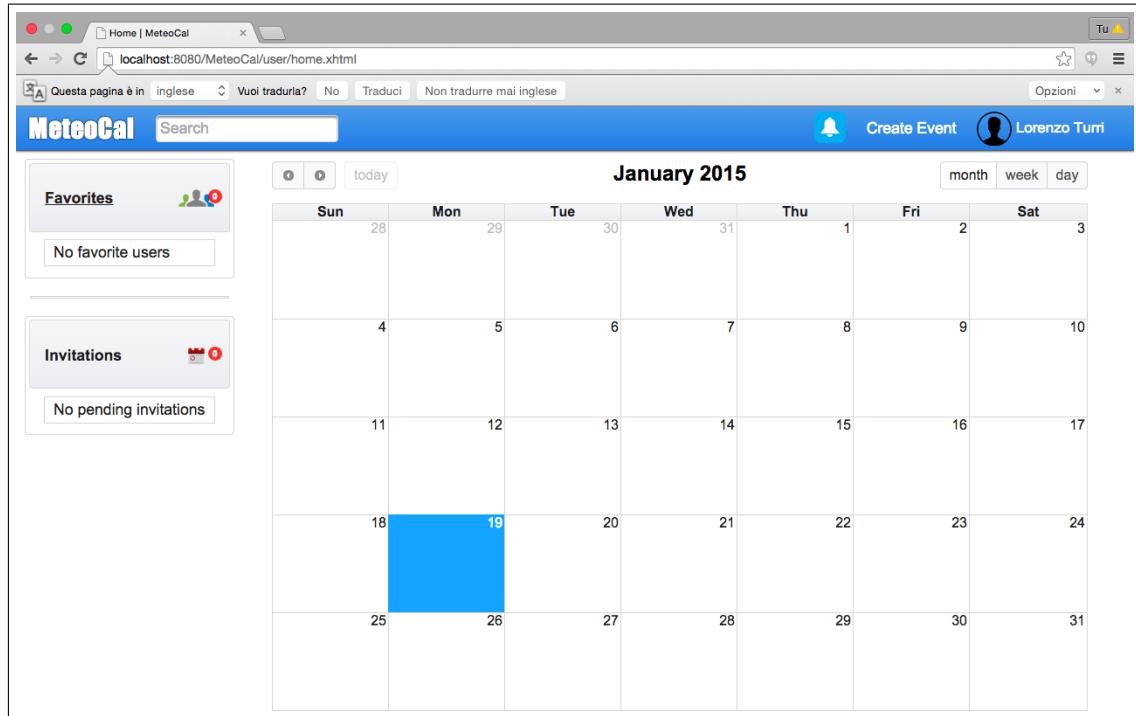


Figure 31: Calendar of user after removing event

The user is also removed from the participants of the event.

3 Notifications

3.1 Main functionalities

3.1.1 Email notifications

Email notifications have been proved working in all cases specified by the RASD. The only two cases that may lead to an email delivery failure are the ones in which the user's email doesn't exists or the account used for MeteoCal has been blocked by the provider (please refer to the installation manual to solve this issue).

3.1.2 System notifications

System notifications have been proved working in all cases specified by the RASD.

3.2 Read notifications

When the user receives a notification, they are marked as "not read". After the notification panel has been opened, they become "read", so it suffices to change the page or reload it to see that their background is no longer yellow (i.e. the background color for not read notifications).

3.3 Notification counter

When the user receives a notification, the red bubble on the notifications icon contains the number of not read notifications. It has been proved that the number of not read notifications is right and when the user clicks on the panel, it is set to 0 (the bubble is hidden).

3.4 Weather alerts

3.4.1 Changed weather conditions

The system, every hour, checks for weather updates, with a scheduled method, as is it possible to see from this log:

```
Informazioni: SCHEDULED TASK #1 BEGIN
Informazioni: Repeated every hour
Informazioni: Mon Jan 19 22:00:00 CET 2015
Buono:   SELECT ID, ADDRESS, BEGINDATE, CITY, CREATEDEVENT, DESCRIPTION, ENDDATE, INDOOR, I
Buono:   SELECT ID, CITY, FORECASTDATE, LASTUPDATE, MAXTEMP, MINTEMP, WEATHER FROM WEATHER
        bind => [1 parameter bound]
Informazioni: 2752
Informazioni: 2801
Buono:   SELECT ID, CITY, FORECASTDATE, LASTUPDATE, MAXTEMP, MINTEMP, WEATHER FROM WEATHER
        bind => [1 parameter bound]
Buono:   SELECT ID, CITY, FORECASTDATE, LASTUPDATE, MAXTEMP, MINTEMP, WEATHER FROM WEATHER
        bind => [1 parameter bound]
Informazioni: 2851
Informazioni: 8202
Informazioni: SCHEDULED TASK #1 END
```

Figure 32: Scheduled task

...and if the weather conditions are different from the previous ones the user receives the notification:

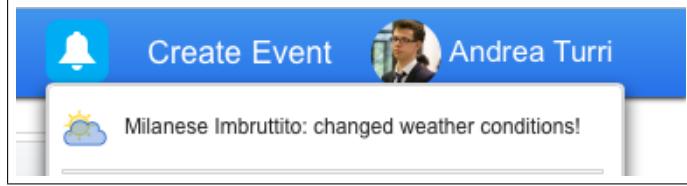


Figure 33: Notification

3.4.2 Bad weather alert

The system, every morning at 10:00 AM, checks the weather for outdoor events of tomorrow, as is it possible to see from this log:

```

Informazioni: SCHEDULED TASK #2 BEGIN
Informazioni: Repeated every day at 10:00 am
Informazioni: Mon Jan 19 23:00:04 CET 2015
Buono: SELECT ID, ADDRESS, BEGINDATE, CITY, CREATEDEVENT, DESI
        bind => [2 parameters bound]
Informazioni: SCHEDULED TASK #2 END

```

Figure 34: Scheduled task (executed for testing at 11:00pm instead of 10:00am)

...and if the weather is bad, invited and participant users receive the following notification:

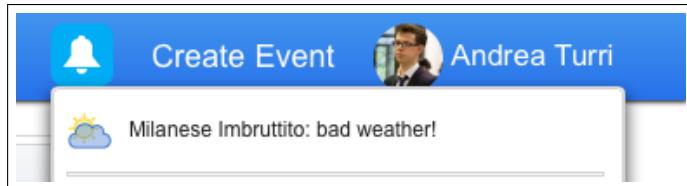


Figure 35: Notification

3.4.3 Closest sunny day suggestion

The system, every morning at 10:00 AM, checks the weather for outdoor events of the day after the day after tomorrow, as is it possible to see from this log:

```

Informazioni: SCHEDULED TASK #3 BEGIN
Informazioni: Repeated every day at 10:00 am
Informazioni: Mon Jan 19 23:00:04 CET 2015
Buono: SELECT ID, ADDRESS, BEGINDATE, CITY, CREATEDEVENT, DI
        bind => [2 parameters bound]
Informazioni: SCHEDULED TASK #3 END

```

Figure 36: Scheduled task (executed for testing at 11:00pm instead of 10:00am)

...and if the weather is bad, the creator receives the following notification with suggestion to change the date with the closest good weather day:

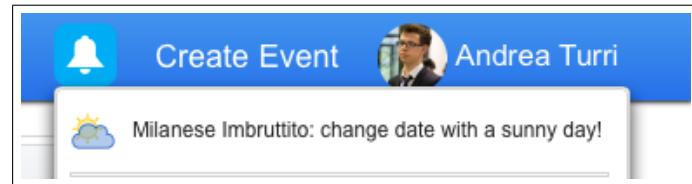


Figure 37: Notification

4 Search

4.1 Embedded search

4.1.1 Users

It is possible to search users by email, name surname, here we present 3 examples:

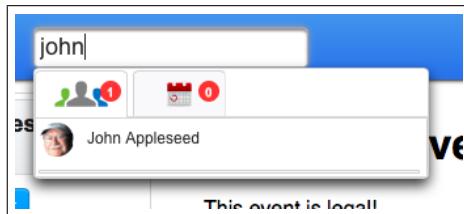


Figure 38: Search by name

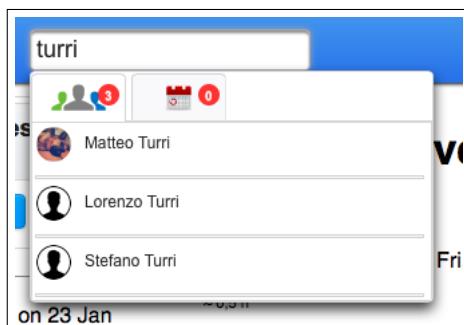


Figure 39: Search by surname



Figure 40: Search by email

The logged user cannot be searched.

4.1.2 Events

It is possible to search public events by title and city, here we present 2 examples:

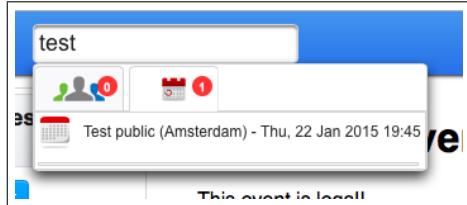


Figure 41: Search by title



Figure 42: Search by city

4.2 User's profiles

Here we show that the profile of a user is shown correctly, even if some non-mandatory attributes of the searched user are not specified:

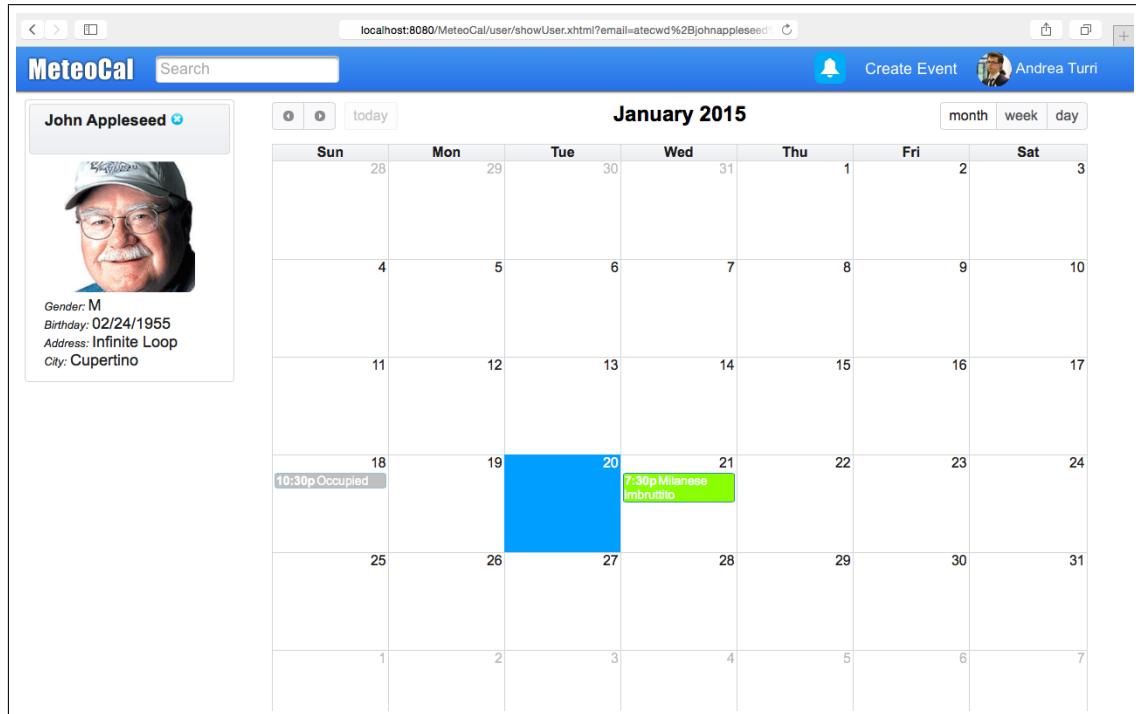


Figure 43: Complete profile with public calendar

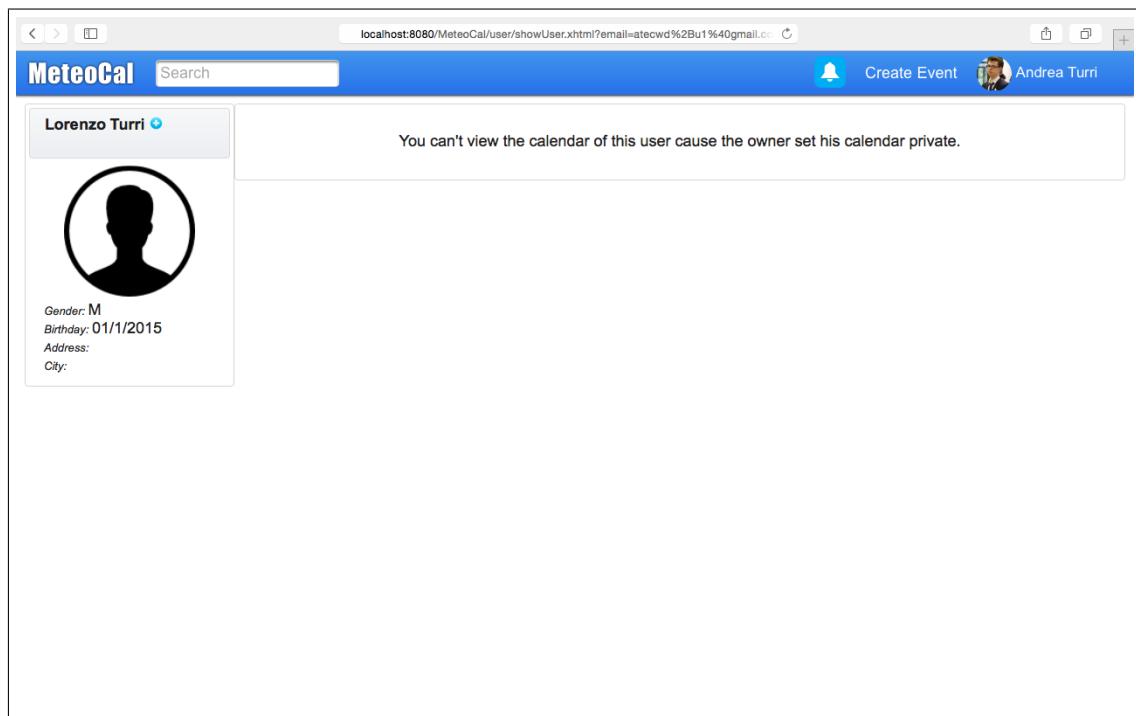


Figure 44: Minimum profile with private calendar

5 Favorites

5.1 Main functionalities

5.1.1 Add favorite

In this test the user tries to add another user as a favorite, by clicking on the "+" button next to the name of the user in the profile page:

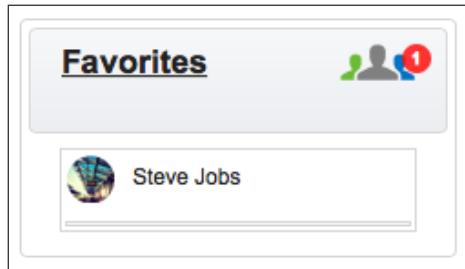


Figure 45: Favorites bar before adding



Figure 46: Favorite user to be added

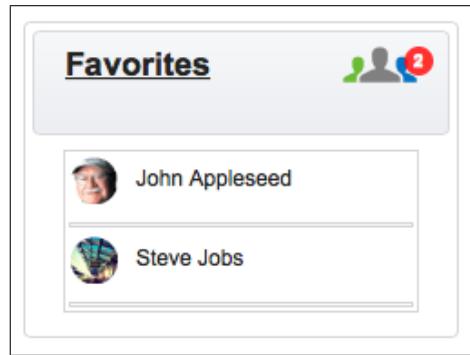


Figure 47: Favorites bar after adding

5.1.2 Remove favorite

In this test the user tries to remove a favorite, by clicking on the "x" button next to the name of the user in the profile page:

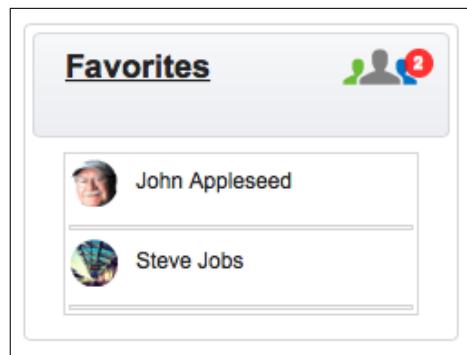


Figure 48: Favorites bar before removing



Figure 49: Favorite user to be removed

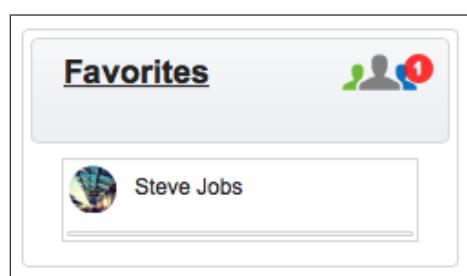


Figure 50: Favorite bar after removing

5.2 Manage favorites

5.2.1 Delete favorites

In this test the user tries to remove some favorite users simultaneously, in the "Favorites" page:

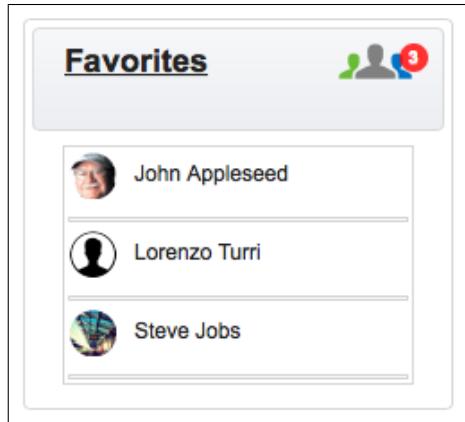


Figure 51: Favorites bar before removing



Figure 52: Favorites multiple deletion

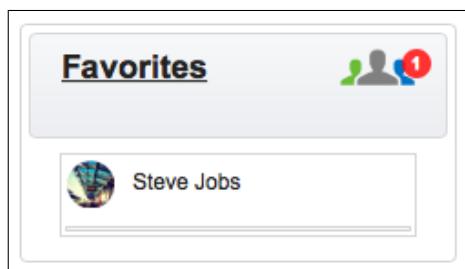


Figure 53: Favorites bar after removing

6 Security

6.1 Login/Logout

6.1.1 Registration fail 1

In this test a user tries to sign up to MeteoCal, but not all mandatory fields are filled. As it is possible to see, an error message is shown and the user is not created:

Registration Form

Name: *	Marco
Surname *	
Gender *	
Date of birth	
Address	
City	
Email *	marco@testmeteocal.it
Password *	
Confirm Password *	

Validation Errors:

- Surname: Validation Error: Value is required.
- Gender: Validation Error: Value is required.
- Password: Validation Error: Password should match with Confirm Password.

Message:

Surname: Validation Error: Value is required.
Gender: Validation Error: Value is required.
Password: Validation Error.

Buttons:

Register

** Mandatory fields*

Figure 54: Tentative of registration with missing data

6.1.2 Registration fail 2

In this test a user tries to sign up to MeteoCal, but the password and the confirmation of password don't match. As it is possible to see, an error message is shown and the user is not created:

Registration Form

Name: *	Marco
Surname *	Turri
Gender *	Man
Date of birth	
Address	
City	Milano
Email *	marco@testmeteocal.it
Password *	<input type="password"/>
Confirm Password *	<input type="password"/>

☒ Password: Validation Error.

☒ Password should match with Confirm Password.

Register

* Mandatory fields

The screenshot shows a registration form with various input fields. Most fields are filled with placeholder text ('Marco' for Name, 'Turri' for Surname, 'Man' for Gender, 'Milano' for City, and 'marco@testmeteocal.it' for Email). The 'Password' field is empty, and the 'Confirm Password' field contains a single character. A red error box at the bottom left indicates a 'Validation Error' for the password, with a sub-message stating '☒ Password should match with Confirm Password.' Below the form is a blue 'Register' button and a note about mandatory fields.

Figure 55: Tentative of registration with not matching password

6.1.3 Registration fail 3

In this test a user tries to sign up to MeteoCal, but the email inserted is already associated to another user. As it is possible to see, an error message is shown and the user is not created:

The screenshot shows a registration form titled "Registration Form". The fields filled in are:

Name: *	Marco
Surname *	Turri
Gender *	Man
Date of birth	[empty]
Address	[empty]
City	Milano
Email *	ate cwd@gmail.com
Password *	[empty]
Confirm Password *	[empty]

A yellow warning box at the bottom left contains the text "⚠ Email already registered". Below the form is a blue button labeled "Register" and a note "* Mandatory fields".

Figure 56: Tentative of registration with registered email

6.1.4 Registration fail 4

In this test a user tries to sign up to MeteoCal, but the email format is wrong. As it is possible to see, an error message is shown and the user is not created:

Registration Form

Name: *	Marco
Surname *	Turri
Gender *	Man
Date of birth	
Address	
City	Milano
Email *	12345678...66
Password *	*****
Confirm Password *	*****

☒ invalid email

Register

* Mandatory fields

Figure 57: Tentative of registration with not valid email

6.1.5 Registration

In this test a user tries to sign up to MeteoCal and finally succeeds.

Registration Form

Name: * Marco

Surname * Turri

Gender * Man

Date of birth

Address

City Milano

Email * atecwd+marco@gmail.com

Password * *****

Confirm Password * *****

Register

* Mandatory fields

Figure 58: Valid registration

As it is possible to see the user is created into the database:

EMAIL	ADDRESS	BIRTHDATE	CITY	GENDER	GROUPNAME	LASTACCESS	NAME	PASSWORD
atecwd+marco@gmail.com	NULL	NULL	Milano	M	USER	2015-01-20 20:04:44	Marco	41a615318d08e67e2fe0d2882c0c2c48d98dc97

Figure 59: User in db

...and it is possible to log in.

6.1.6 Password recovery fail

In this test the user tries to reset the password, but the email inserted is not associated to any account:

The screenshot shows a 'Recover Password Form' window. It has two input fields: 'Email *' containing 'ineststente@gmail.com' and a 'Recover Password' button. To the right of the email field is a red rectangular box containing the text 'User not found' with a small red 'X' icon.

Figure 60: User does not exist

6.1.7 Password recovery

In this test the user tries to reset the password. The inserted email is correct and so he receives the email with the link:

The screenshot shows a 'Recover Password Form' window. It has two input fields: 'Email *' containing 'ecwd+marco@gmail.com' and a 'Recover Password' button. To the right of the email field is a green checkmark icon and the text 'Success'.

Figure 61: User exists

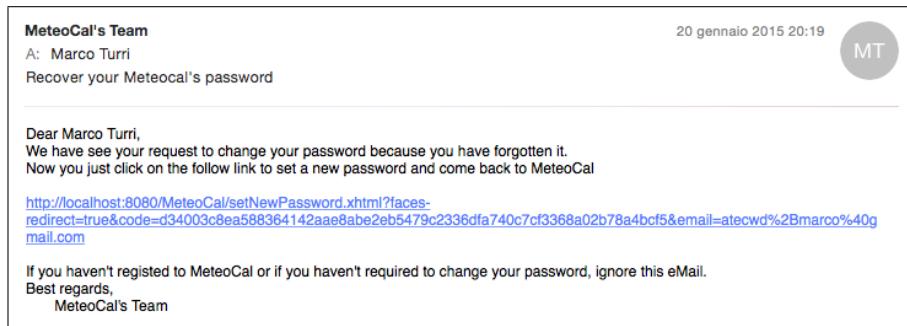


Figure 62: Email

Then the user clicks on the link and types a new password:

Set New Password Form

Password *	<input type="text"/>
Confirm Password *	<input type="text"/>
Set New Password	

Figure 63: Insertion of new password

Finally it is possible to log in with the new password.

In case that the password doesn't match the confirmation:

Set New Password Form

Password *	<input type="text"/>
Confirm Password *	<input type="text"/>
Set New Password	<input checked="" type="checkbox"/> password don't match

Figure 64: Password not matching

...or in case the URL is not correct, the user is not found:

Set New Password Form

Password *	<input type="text"/>
Confirm Password *	<input type="text"/>
Set New Password	<input checked="" type="checkbox"/> User not found

Figure 65: User error

6.1.8 Login fail

In this test the user tries to log in, but the email inserted is not associated to any user. The log in fails and a message is shown:

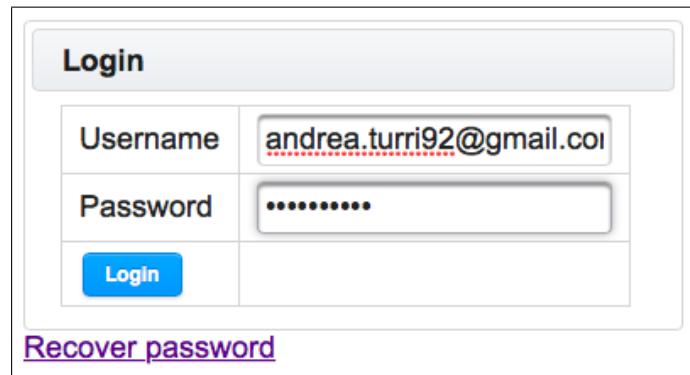
The screenshot shows a 'Login' form with two input fields: 'Username' and 'Password'. Below the fields are two buttons: a blue 'Login' button and a red button containing a white 'X' icon with the text 'Login failed'. A link labeled 'Recover password' is located at the bottom left of the form.

Figure 66: User error

The same happens if the user is correct, but not the password.

6.1.9 Login

In this test the user finally logs into the system, as the email and the password are correct:



A screenshot of a login interface titled "Login". It contains two input fields: "Username" with the value "andrea.turri92@gmail.co" and "Password" with several dots indicating the password. Below the password field is a blue "Login" button. At the bottom of the form is a link labeled "Recover password".

Figure 67: User fills login form correctly

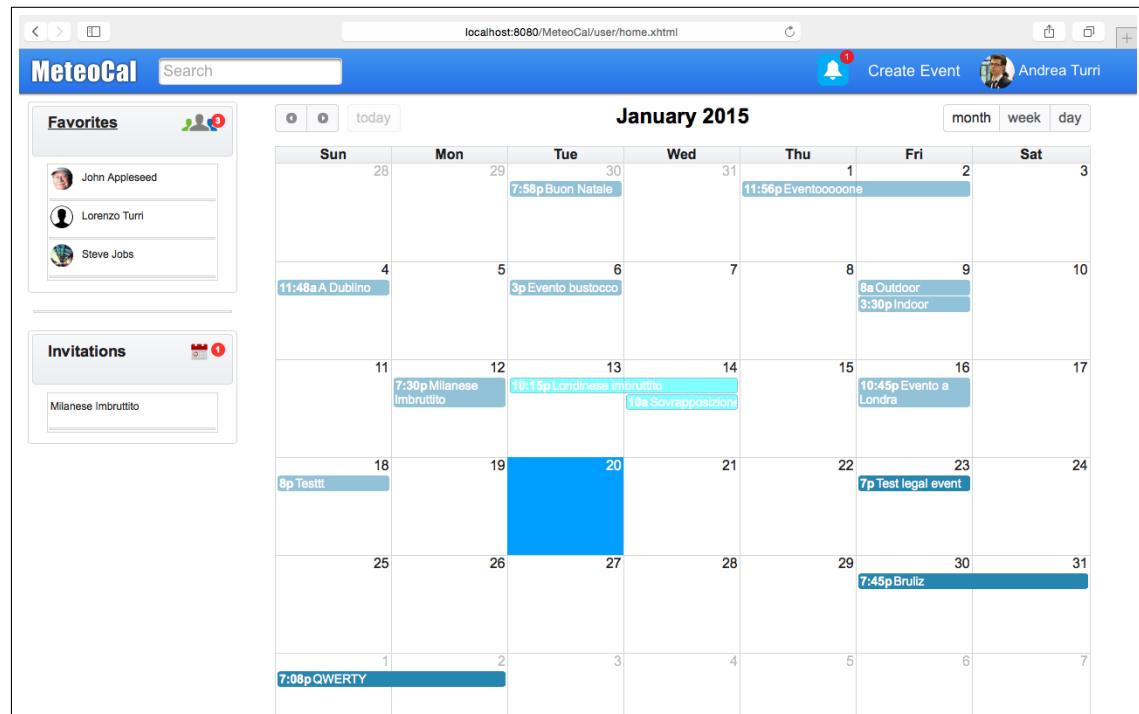


Figure 68: User logged in

6.1.10 Login with redirect

In this test the user logs into the system and he is redirected to the page requested before:

localhost:8080/MeteoCal/event/detail.xhtml?id=8357

Login

Username	andrea.turri92@gmail.com
Password	*****

Login

[Recover password](#)

Figure 69: User fills login form correctly

MeteoCal Search

Create Event Andrea Turri

Actions for Test legal event

[Edit event](#)

This event is legal!

Fri, 23 Jan 2015 19:00 - Fri, 23 Jan 2015 19:30

~0.5 h

Private | Indoor

Via Golgi, 40, Milano

12.0°C 0.0°C

Last update at Tue, 20 Jan 2015 19:19, powered by Yahoo! Meteo

Owner: Andrea Turri (andrea.turri92@gmail.com)

Participating users:

- Lorenzo Turri (stecowd+u1@gmail.com) [Remove](#)
- Andrea Turri (andrea.turri92@gmail.com)

Invited users:

- John Appleseed (stecowd+johnappleseed@gmail.com) [Remove](#)

Buildina 40

Figure 70: User logged in, redirected immediately to the requested page

6.1.11 Logout

In this test the user logs out, by clicking on the button in the dropdown menu in the top bar:

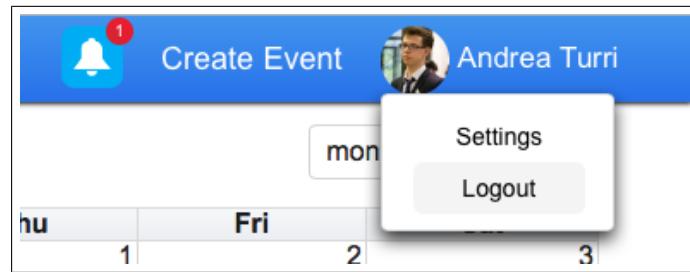


Figure 71: User click Logout

After the user is logged out, he is redirected to the home in the public area:

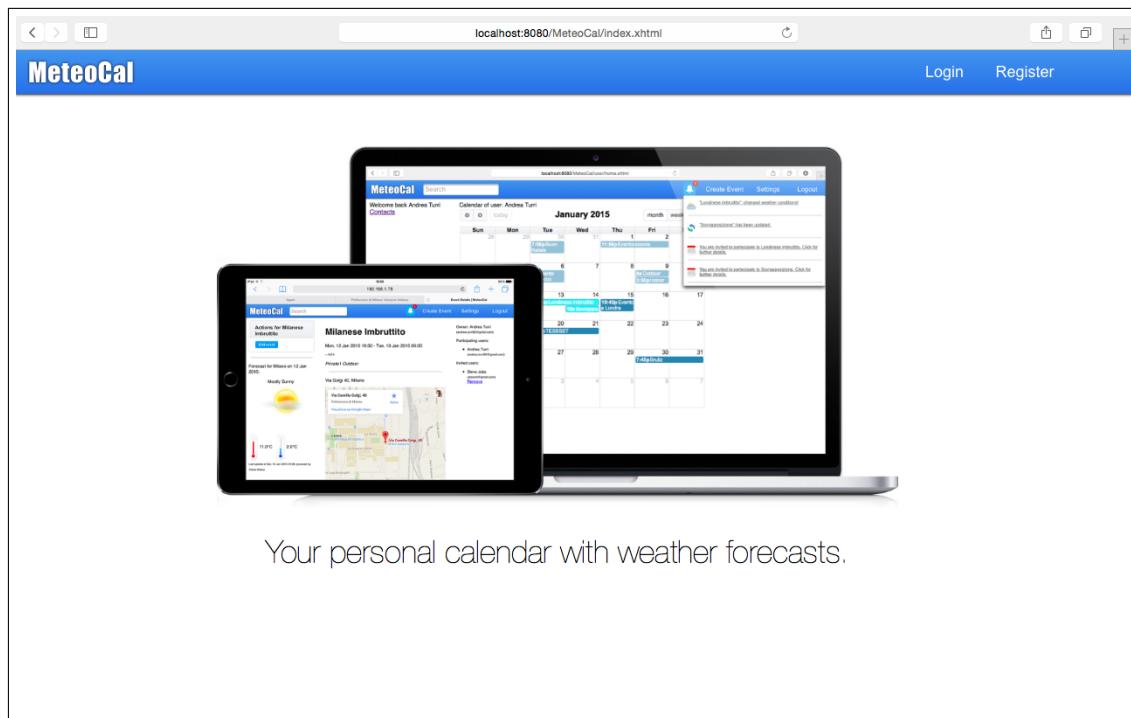


Figure 72: User logged out

6.1.12 Reserved pages

It is not possible to access any page in folders *notification*, *user*, *search*, *event* without logging in. As it is possible to see, the log in page is shown:

A screenshot of a web browser window. The address bar shows "localhost:8080/MeteoCal/user/". The main content area displays a "Login" form. The form has three fields: "Username" with an input field, "Password" with an input field, and a "Login" button. Below the form is a link "Recover password".

Figure 73: User folder: auth required

A screenshot of a web browser window. The address bar shows "localhost:8080/MeteoCal/notification/". The main content area displays a "Login" form. The form has three fields: "Username" with an input field, "Password" with an input field, and a "Login" button. Below the form is a link "Recover password".

Figure 74: Notification folder: auth required

A screenshot of a web browser window. The address bar shows "localhost:8080/MeteoCal/search/". The main content area displays a "Login" form. The form has three fields: "Username" with an input field, "Password" with an input field, and a "Login" button. Below the form is a link "Recover password".

Figure 75: Search folder: auth required

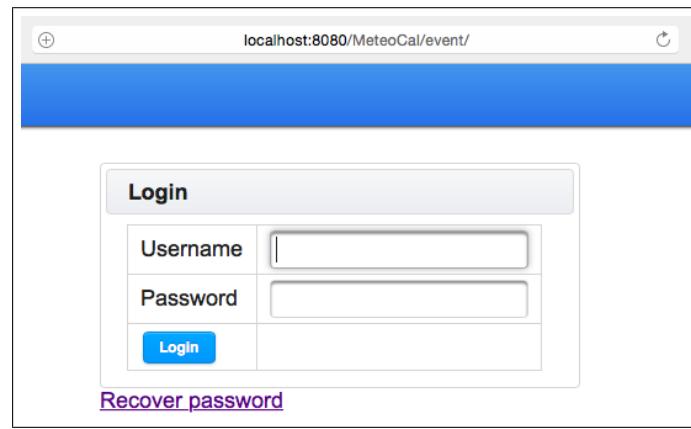


Figure 76: Event folder: auth required

6.2 Event details

6.2.1 Private event, unauthorized user

In this test a user that is not participant nor invited to a private event tries to see event's details, but it is hidden:

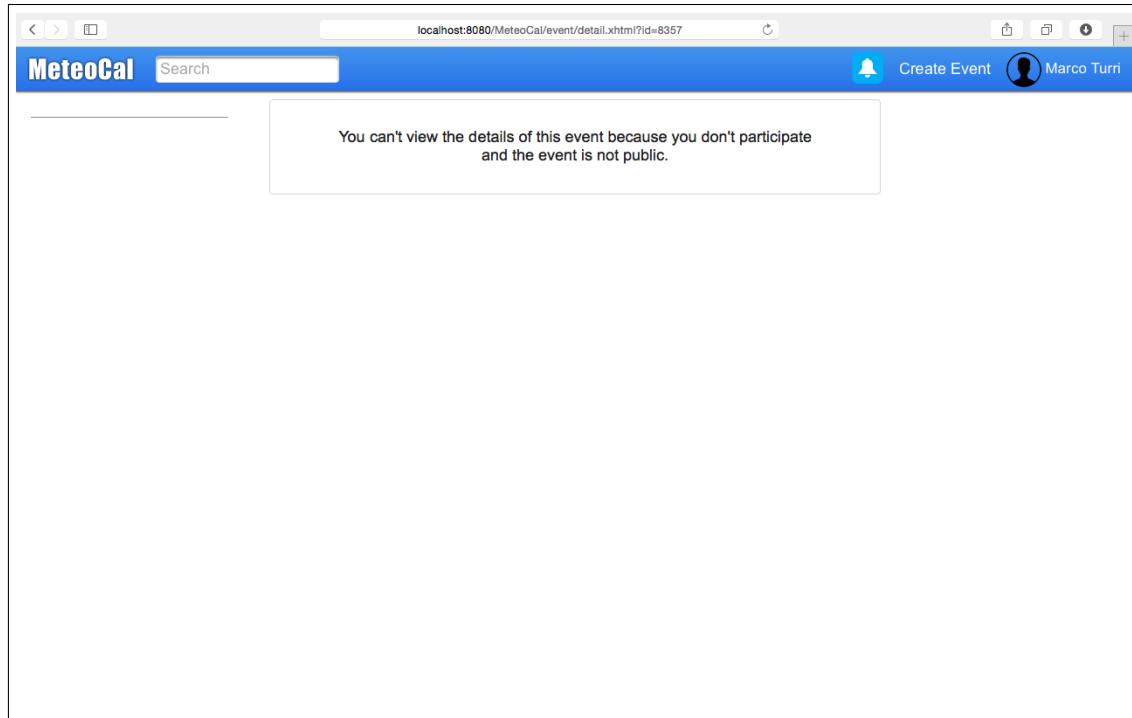


Figure 77: User not authorized

6.2.2 Participant/invited user

In this test a user that is participant can see event's details (there is the button to remove the event from user's calendar):

The screenshot shows a web browser window for the MeteoCal application at localhost:8080/MeteoCal/event/detail.xhtml?id=8357. The page title is "Test legal event". The top right corner shows the user profile of "Lorenzo Turri".
Left sidebar: "Actions for Test legal event" with a "Remove event" button.
Main content:

- "This event is legal!"
- Date: Fri, 23 Jan 2015 19:00 - Fri, 23 Jan 2015 19:30
- Duration: ~0.5 h
- Location: Private | Indoor
- Address: Via Golgi, 40, Milano
- Weather forecast for Milano on 23 Jan 2015:
 - Sunny
 - Temperature: 12.0°C
 - Wind: 0.0°C
- Last update at Tue, 20 Jan 2015 21:20, powered by Yahoo Meteo

A map of the area around Via Camillo Golgi, 40, Milano, showing nearby landmarks like Politecnico di Milano and Lavoro. A red dot marks the event location.

Figure 78: Participant user

...while a user that is invited to the event (there are buttons to accept or refuse invitation):

The screenshot shows a web browser window for the MeteoCal application at localhost:8080/MeteoCal/event/detail.xhtml?id=8357. The main content area displays a message: "You received an invitation by Andrea Turri". Below this, there are two buttons: "Accept" and "Refuse". To the right, the event details are shown: "Test legal event", "This event is legal!", "Fri, 23 Jan 2015 19:00 - Fri, 23 Jan 2015 19:30", and "~ 0.5 h". A section titled "Private l Indoor" is present. On the left, a weather forecast for Milano on 23 Jan 2015 is shown as "Sunny" with a sun icon, temperature "12.0°C", and humidity "0.0°C". On the right, a map shows the location "Via Camillo Golgi, 40, Milano" with a red marker indicating the event's position. The map also includes a legend for "Indicazioni" (indications) and "Salva" (save). The bottom of the map shows "Google" and "©2015 Google - Map data ©2015 Google". The top right corner shows the owner "Andrea Turri" and a "Create Event" button.

Figure 79: Invited user

If the event has already began, it is possible only to refuse:

The screenshot shows a web browser window for the MeteoCal application at localhost:8080/MeteoCal/event/detail.xhtml?id=8554. The main content area displays a message: "You received an invitation by Andrea Turri". Below this, there is a single button: "Refuse". To the right, the event details are shown: "Test past", "Tue, 20 Jan 2015 22:00 - Tue, 20 Jan 2015 22:45", and "~ 0.8 h". A section titled "Private l Indoor" is present. The top right corner shows the owner "Andrea Turri" and a "Create Event" button.

Figure 80: Invited user, past event

It works both for public and private events.

6.2.3 Creator user

In this test the creator of the event can see event's details (there is the button to edit / delete the event):

The screenshot shows a web browser window for the MeteoCal application at localhost:8080/MeteoCal/event/detail.xhtml?id=8357. The page title is "Test legal event". On the left, there's a sidebar with "Actions for Test legal event" and an "Edit event" button. The main content area displays the event details: "This event is legal!", "Fri, 23 Jan 2015 19:00 - Fri, 23 Jan 2015 19:30", and "Private | Indoor". Below this is a weather forecast for Milano: "Sunny" with a sun icon, "12.0°C" (temperature), and "0.0°C" (feels like). A note says "Last update at Tue, 20 Jan 2015 21:20, powered by Yahoo Meteo". To the right, there's a map of Via Camillo Golgi, 40 in Milano, showing surrounding streets like Viale Romagna, Via Moretto da Brescia, and Via Luigi Mangiagalli. A legend indicates "Lavoro - 10 min a piedi". On the far right, sections show "Owner: Andrea Turri (andrea.turri92@gmail.com)", "Participating users" (Lorenzo Turri and Andrea Turri), and "Invited users" (John Appleseed). There are "Remove" links next to each user entry.

Figure 81: Event details, creator

It works both for public and private events.

If the event has already began, is shown only the delete button:

The screenshot shows a web browser window for the MeteoCal application at the URL `localhost:8080/MeteoCal/event/detail.xhtml?id=8554`. The page displays details for an event named "Test past".

Actions for Test past

Delete event

Test past

Tue, 20 Jan 2015 22:00 - Tue, 20 Jan 2015 22:45

~0,8 h

Private | Indoor

Owner: Andrea Turri
(andrea.turri92@gmail.com)

Participating users:

- Andrea Turri
(andrea.turri92@gmail.com)

Invited users:

- John Appleseed
(stecwdj+johnappleseed@gmail.com)

[Remove](#)

Figure 82: Event details, creator, past event

6.2.4 Public event, unrelated user

In this test a user that is not participant nor invited to a public event tries to see event's details:

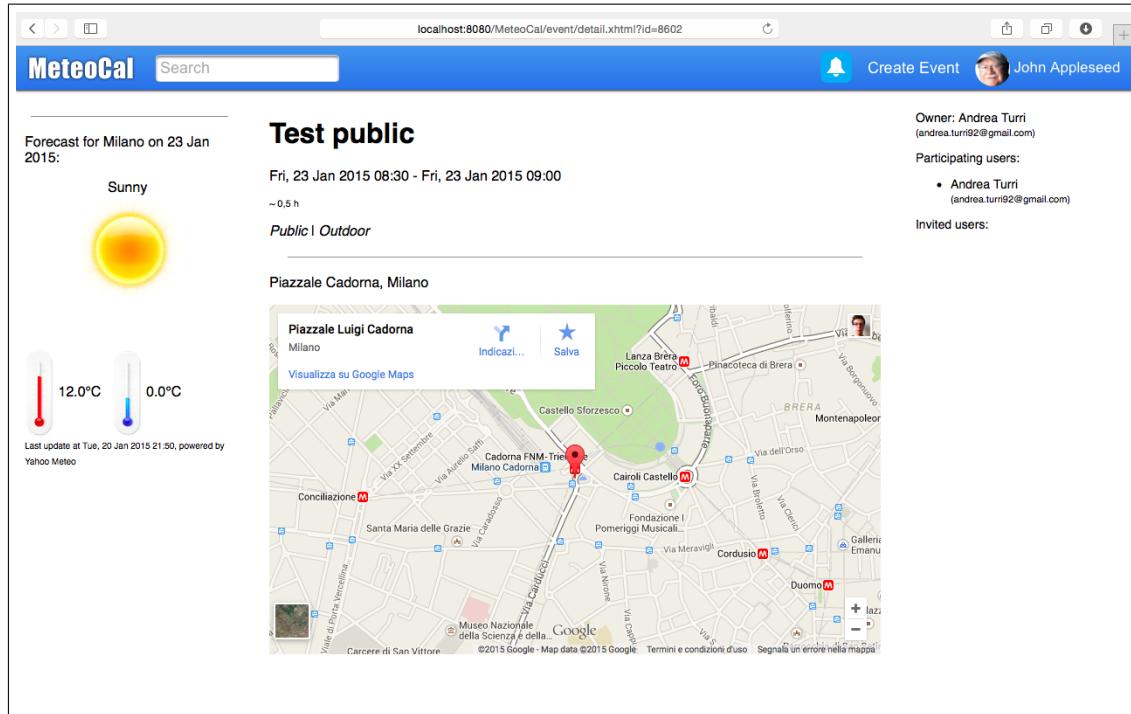


Figure 83: Event details, public, unrelated user

6.3 Event update

6.3.1 Creator user

In this test the creator of the event can edit the event details:

The screenshot shows a web browser window for the MeteoCal application at localhost:8080/MeteoCal/event/edit.xhtml?id=8357. The page title is 'Edit event'. The form contains the following fields:

Title: *	Test legal event
Description	This event is legal!
Starting time *	01/23/2015 19:00
End time *	01/23/2015 19:30
Address	Via Golgi, 40
City	Milano
Weather	Forecast for Milano on 23 Jan 2015: Sunny, with high of 12.0°C and low of 0.0°C
Location additional info	Building 40
Visibility *	Private
Type *	<input checked="" type="radio"/> Indoor <input type="radio"/> Outdoor
Invite users	(empty input field)

At the bottom left is a blue 'Save' button with a disk icon, and at the bottom center is a note: '* Mandatory fields'.

Figure 84: Update an event

6.3.2 Quick edit, creator user

In this test the creator of the event can edit the event details:

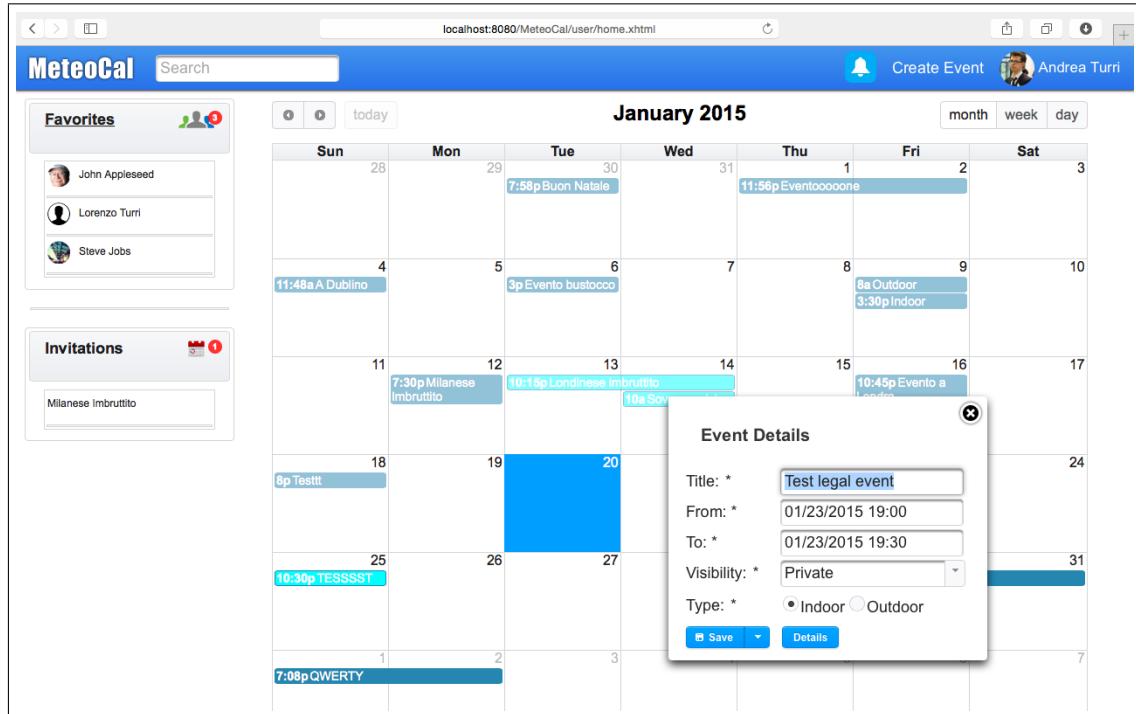


Figure 85: Quick edit

...while if the event already began it is not possible:

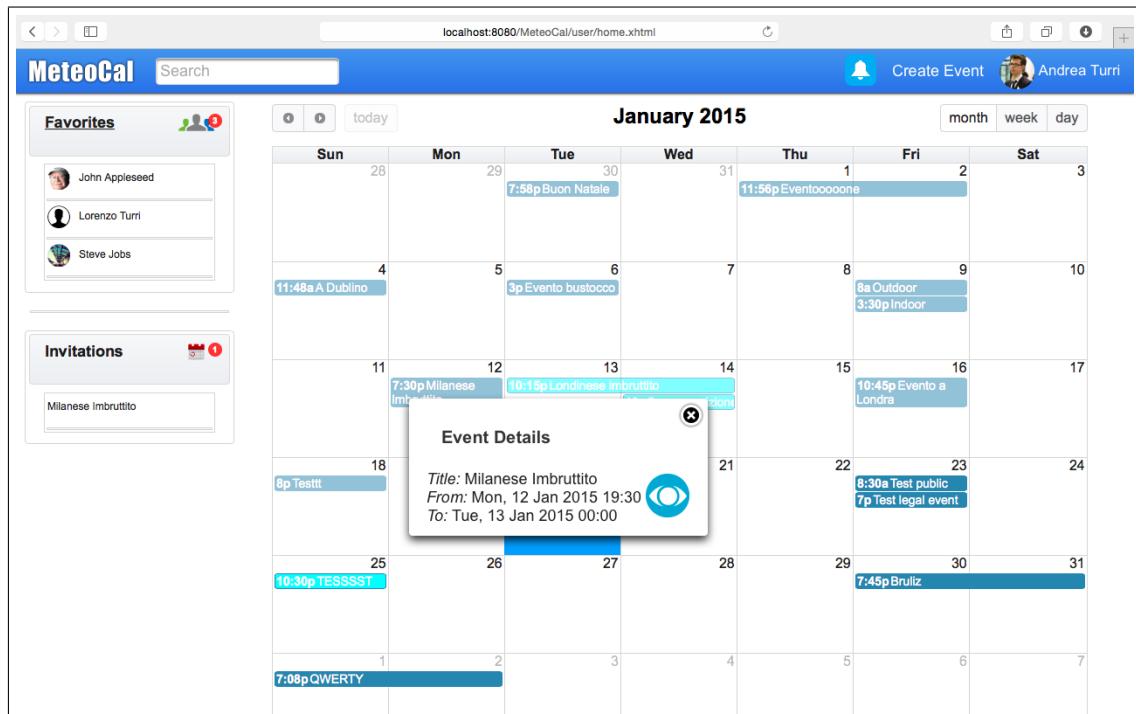


Figure 86: Quick edit not possible for past events

6.3.3 Other user

In this test a user that is not creator of the event cannot edit the event details (also if participant or invited):

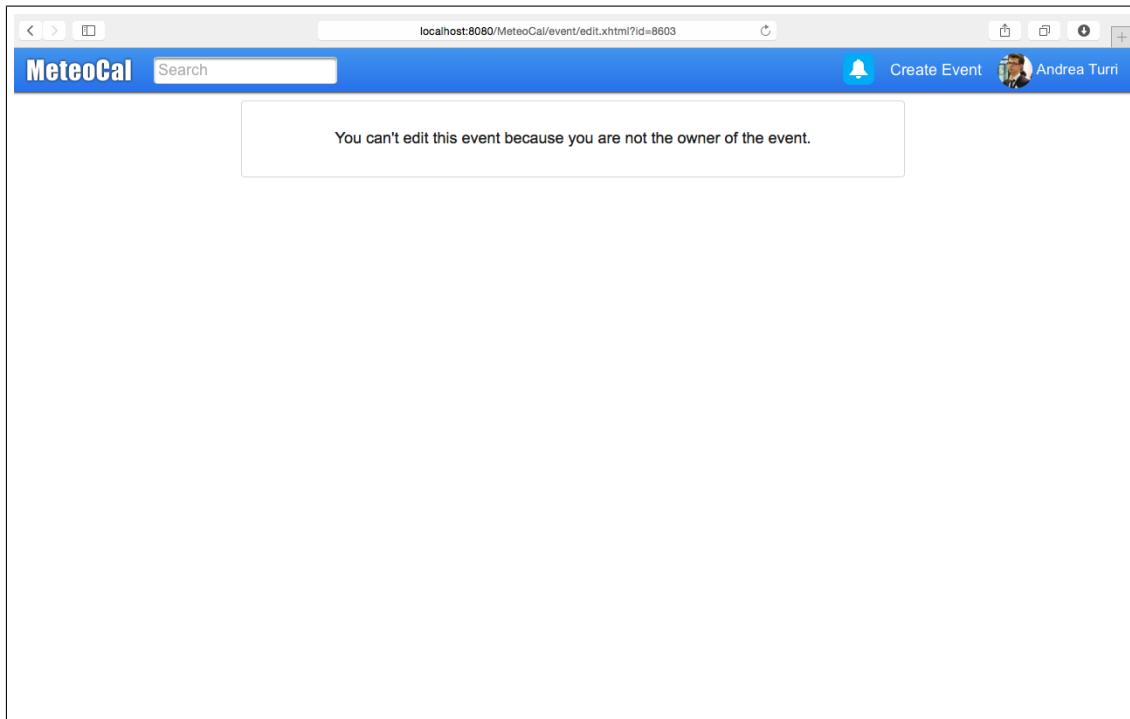


Figure 87: Update of events is not allowed for users that are not the creator

6.3.4 Quick edit, other user

In this test a user that is not creator of the event cannot edit the event details (also if participant or invited):

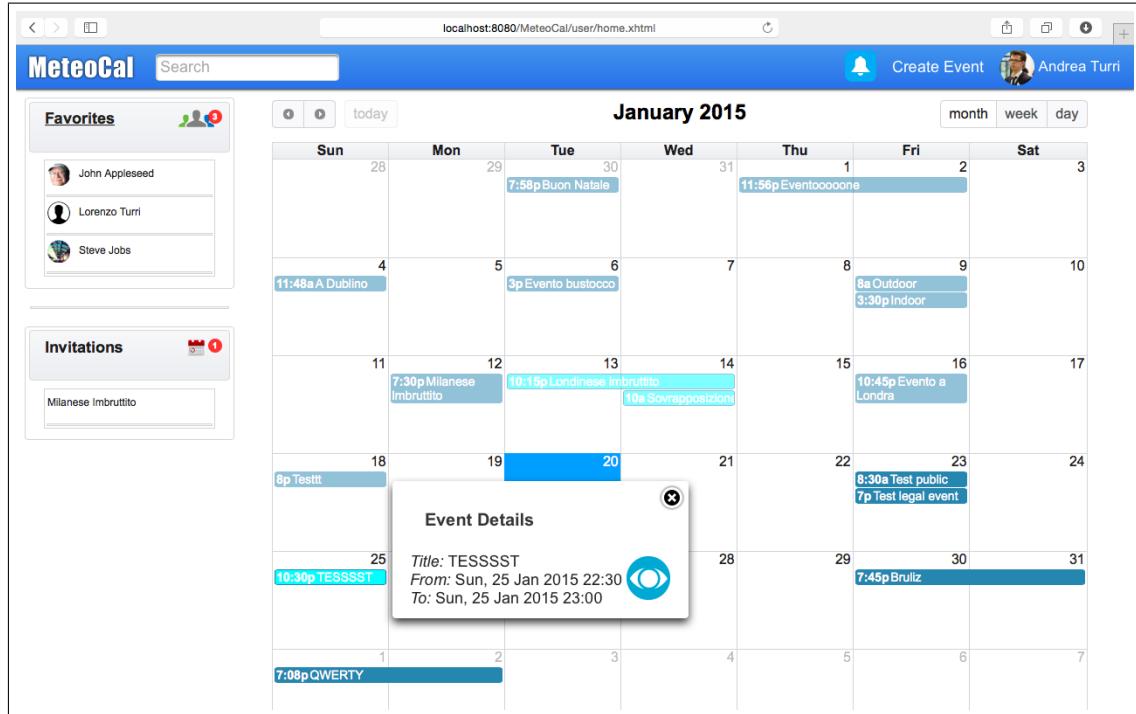


Figure 88: Quick edit not possible if the user is not creator

6.4 User's profile

6.4.1 Private calendar

In this test a user tries to see the profile of a user whose calendar is private:

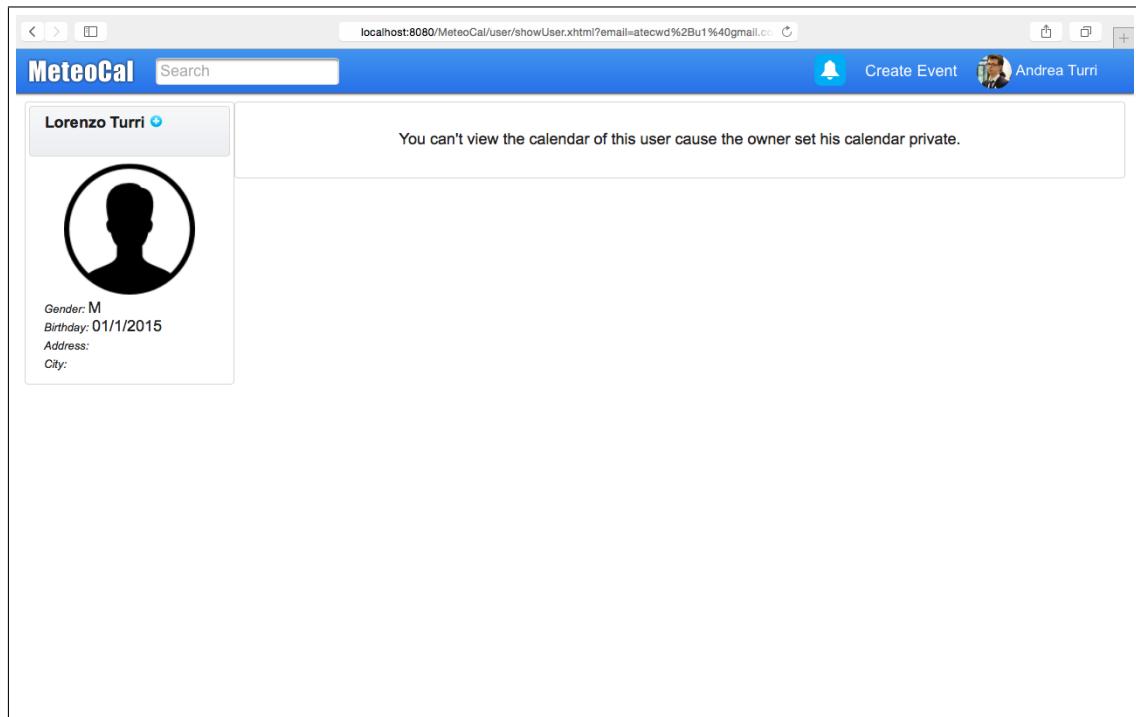


Figure 89: Private calendar

6.4.2 Public calendar

In this test a user tries to see the profile of a user whose calendar is public. As it possible to see, public events are shown completely, private events are seen as "busy timeslots".

Furthermore if the user clicks on an event:

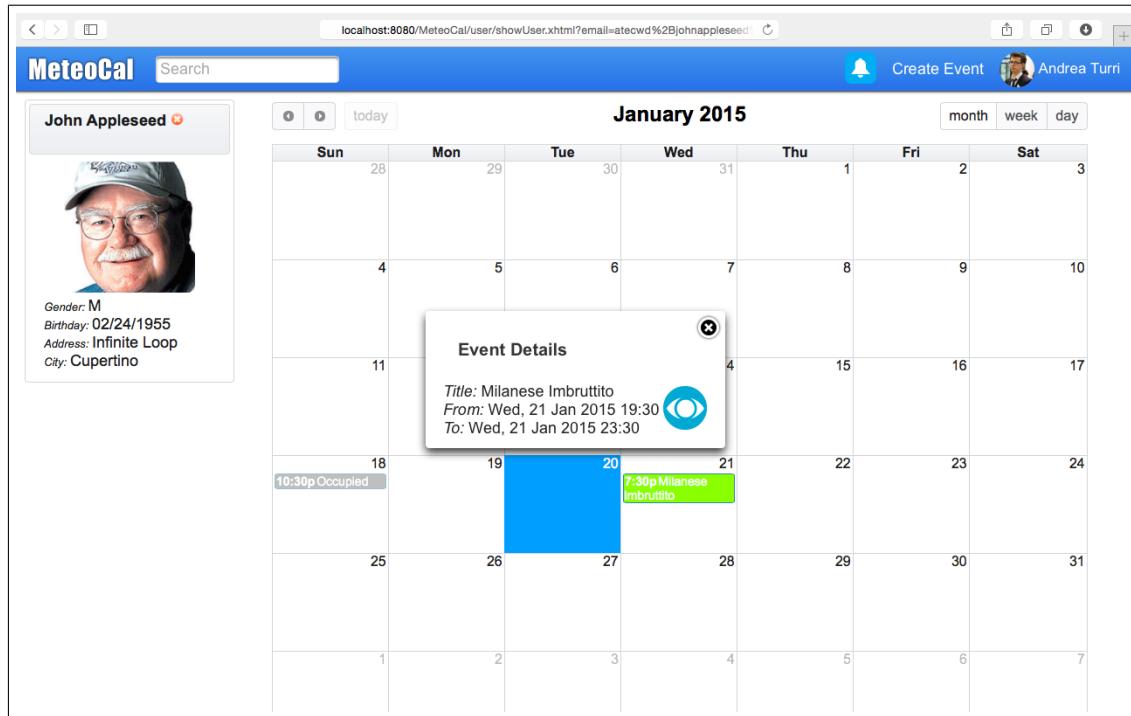


Figure 90: Public events in public calendar

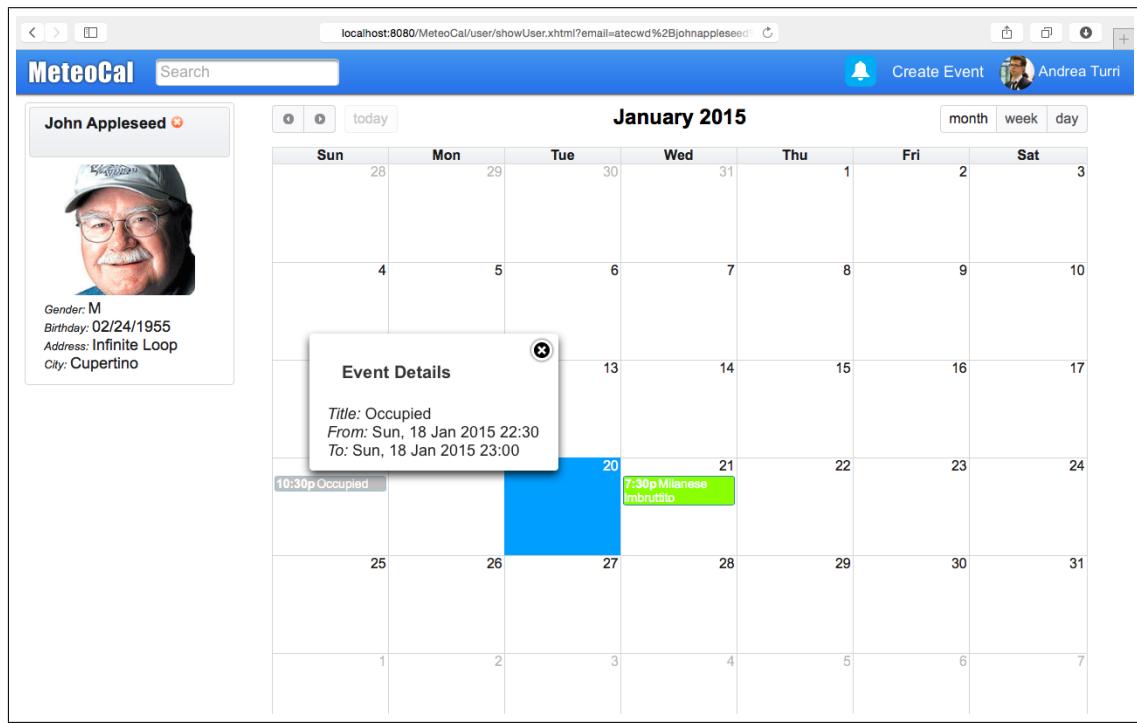


Figure 91: Private events in public calendar

7 Settings

7.1 Import/Export

7.1.1 Import events with overlapping

In this test the user tries to import a calendar, but some event overlaps with an existing one, so no event is imported and it is shown a message:

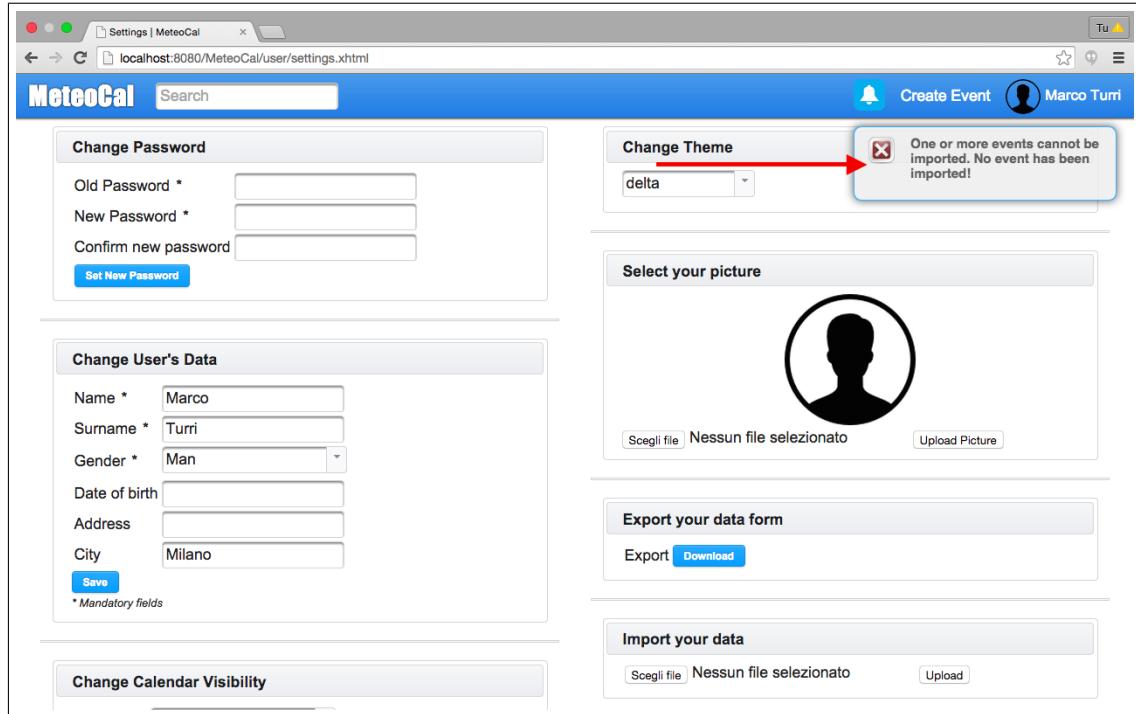


Figure 92: Tentative of import events with overlaps

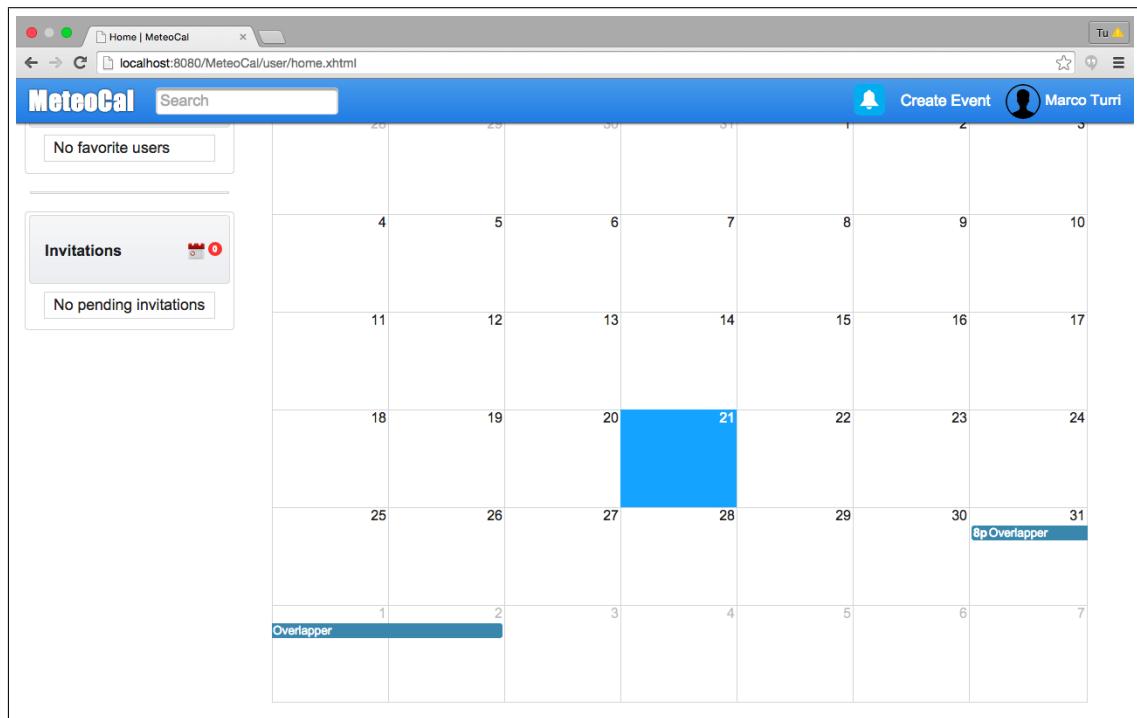


Figure 93: Calendar before trying to import

```
<event>
  <title>QWERTY</title>
  <description>sdhjdshgvhhdbc</description>
  <creator>andrea.turri92@gmail.com</creator>
  <createdevent>2014-12-29 19:09 CET</createdevent>
  <begindate>2015-02-01 19:08 CET</begindate>
  <enddate>2015-02-02 19:08 CET</enddate>
  <publicevent>false</publicevent>
  <indoorno>true</indoorno>
</event>
```

Figure 94: Event that overlaps in the XML file

7.1.2 Import events with date error

In this test the user tries to import a calendar, but some event has the begin date which is after the end date, so no event is imported and it is shown a message:

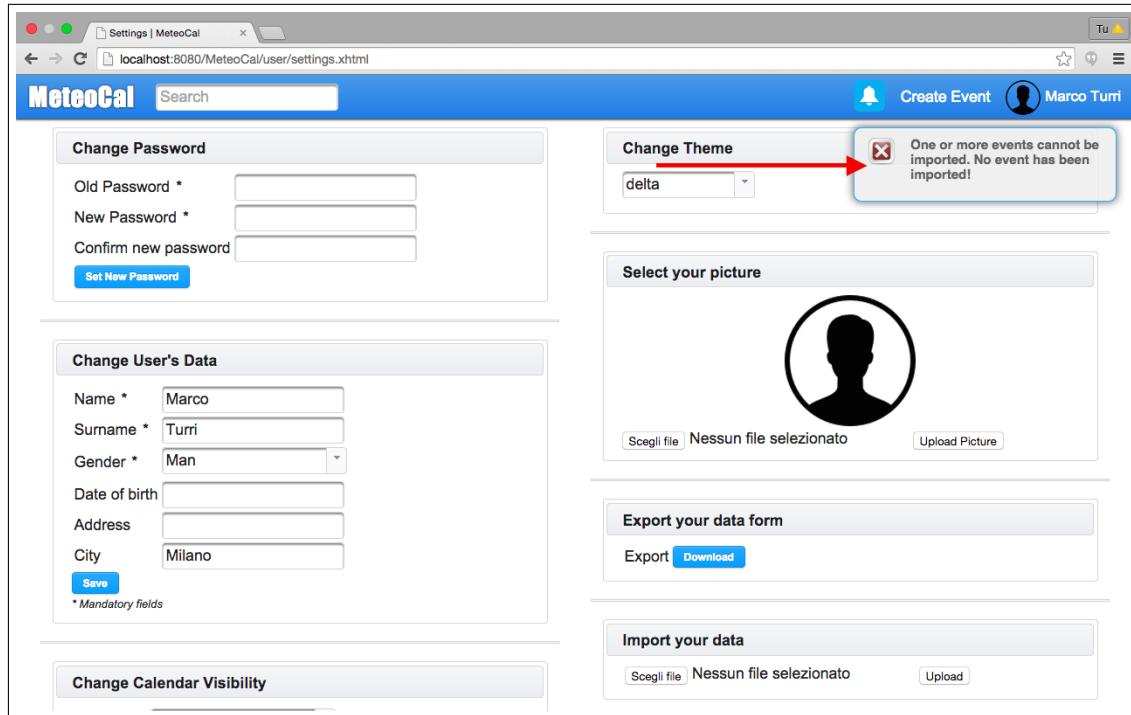


Figure 95: Tentative of import events with date errors

```
<event>
    <title>QWERTY</title>
    <description>sdhjdshgvhhdbc</description>
    <creator>andrea.turri92@gmail.com</creator>
    <createdevent>2014-12-29 19:09 CET</createdevent>
    <begindate>2015-02-03 19:08 CET</begindate>
    <enddate>2015-02-02 19:08 CET</enddate>
    <publicevent>false</publicevent>
    <indoor>true</indoor>
</event>
```

Figure 96: Error contained in XML file

7.1.3 Import events with wrong format file

In this test the user tries to import a calendar, but the file format is not xml, so no event is imported and it is shown a message:

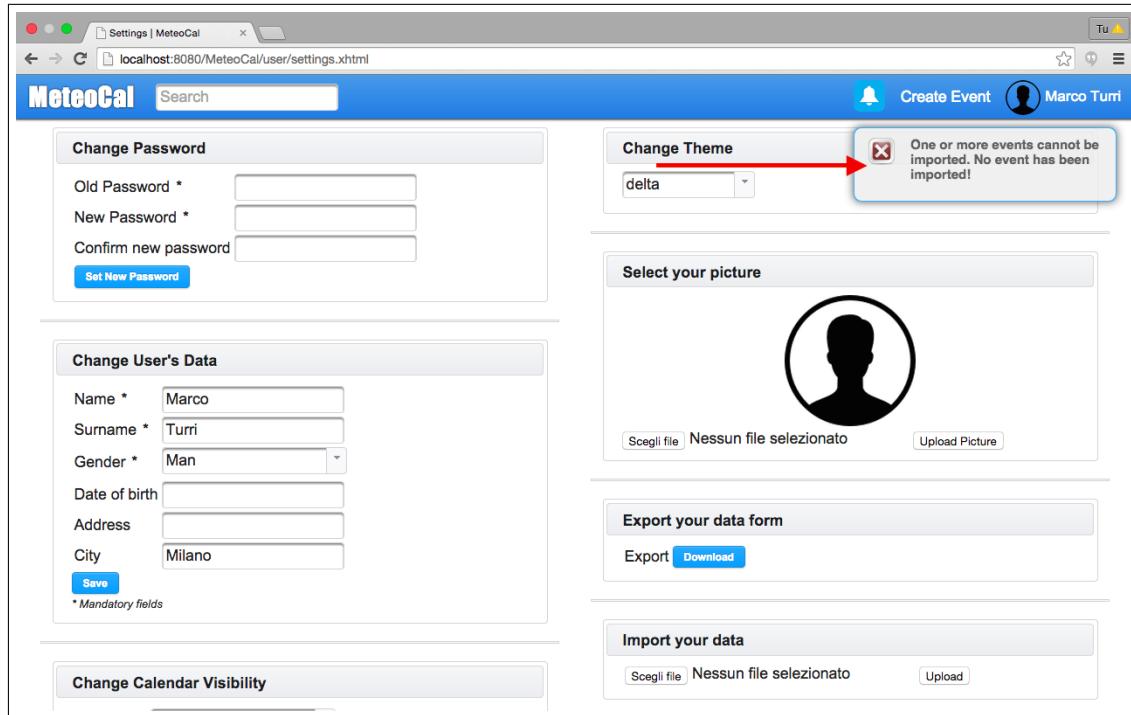


Figure 97: Tentative of import events with wrong file format



Figure 98: File uploaded, a gif

7.1.4 Import events with corrupted file

In this test the user tries to import a calendar, but the file is corrupted (e.g. wrong xml schema), so no event is imported and it is shown a message:

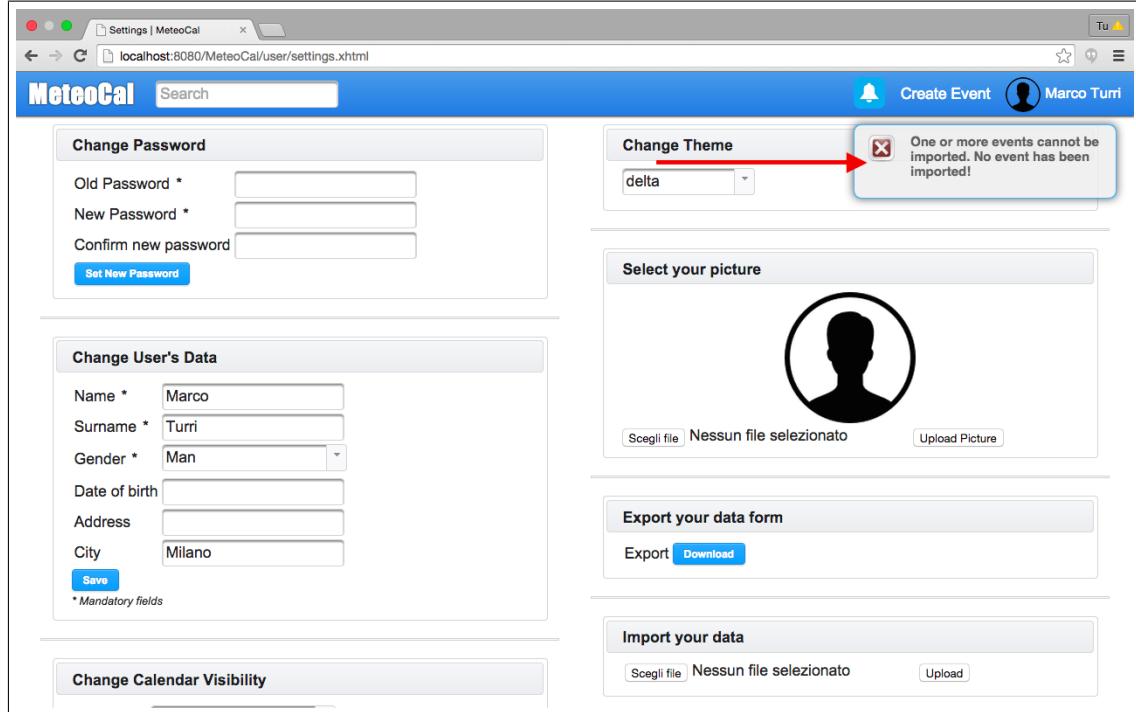


Figure 99: Tentative of import events with corrupted file

```
<events>
  <event>
    EMPTY: ERROR!
  </event>
  <event>
    <error/>
  </event>
  <eventErrorHere>
    <title>Test i\legal event</title>
    <description>This event is legal!</description>
    <locationinfo>Building 40</locationinfo>
    <city>Milano</city>
  </event>
  <event>
    <title>Test legal event</title>
    <description>This event is legal!</description>
    <locationinfo>Building 40</locationinfo>
    <city>Milano</city>
    <address>Via Golgi, 40</address>
    <creator>andrea.turri92@gmail.com</creator>
    <createdevent>2015-01-20 18:51 CET</createdevent>
    <begindate>2015-01-23 19:00 CET</begindate>
    <enddate>2015-01-23 19:30 CET</enddate>
    <publicevent>false</publicevent>
    <indoorg>true</indoorg>
  </event>
</events>
```

Figure 100: Errors contained in the XML

7.1.5 Import events

In this test a new user imports a calendar exported from another user. All future events are created as a copy: the owner is the current user and they are all a copy.

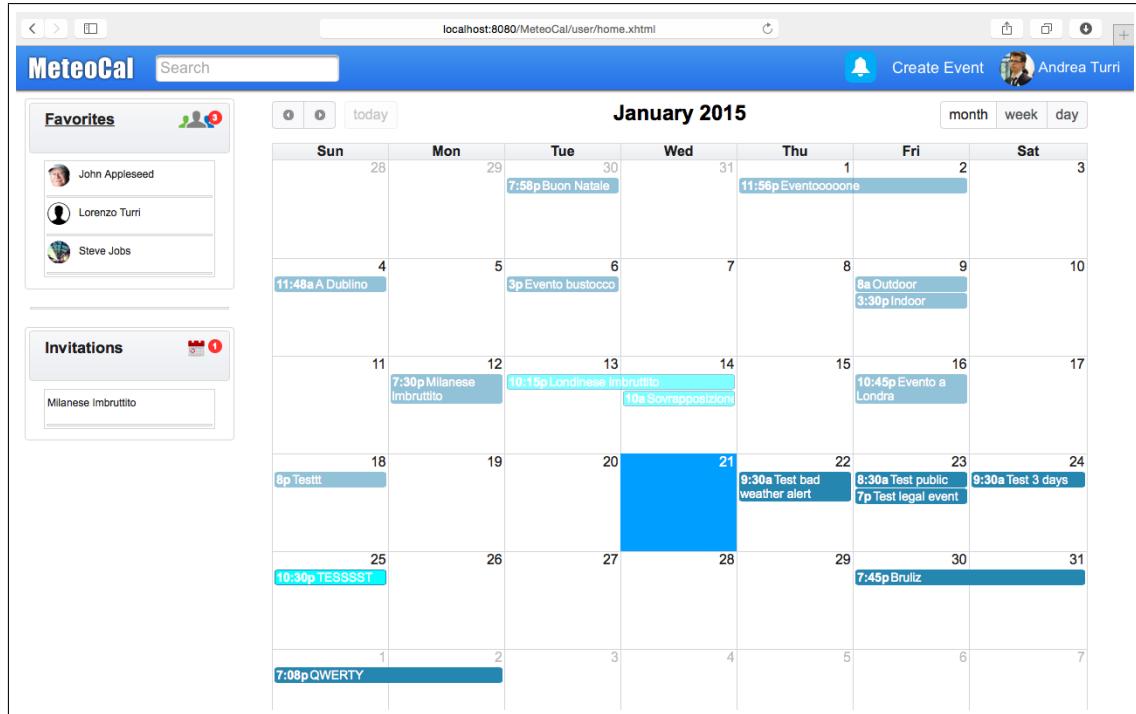


Figure 101: Calendar that will be imported

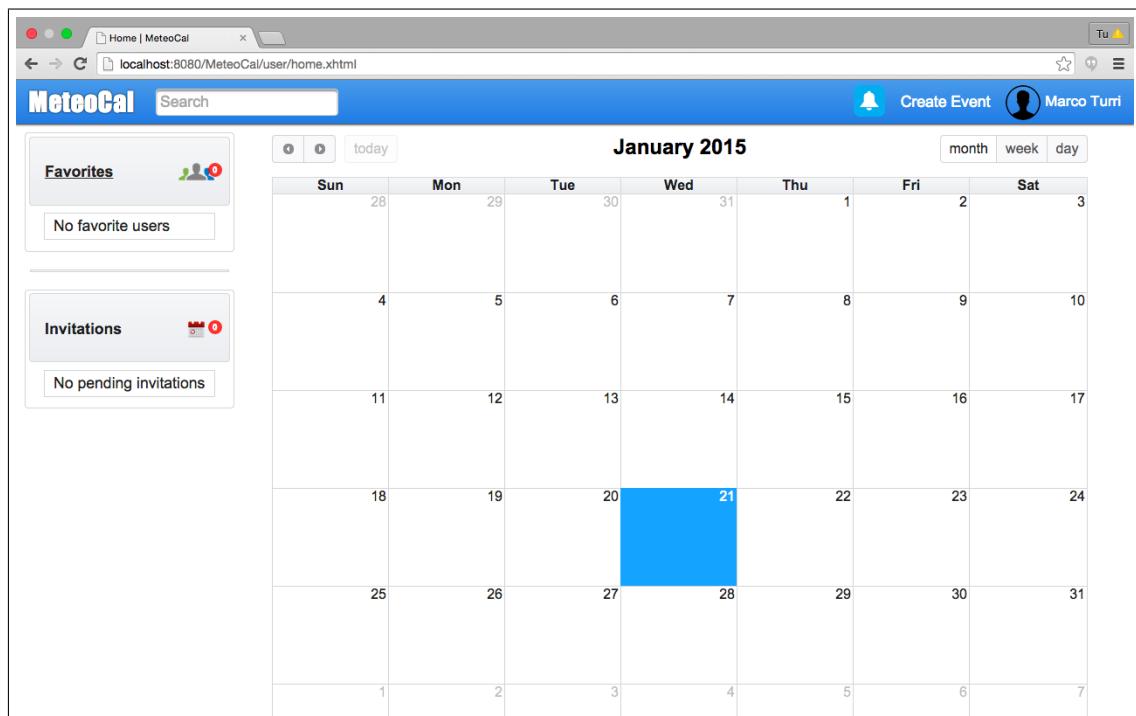


Figure 102: Calendar of current user, empty

The screenshot shows the 'Settings' page of MeteoCal. On the right, a message box displays: "Events are correctly imported." with an information icon. A red arrow points from the text to the icon. On the left, there are sections for changing password, user data, calendar visibility, and theme selection. The theme is set to 'delta'. Below these are sections for selecting a profile picture and exporting/importing data.

Figure 103: Events have been created successfully

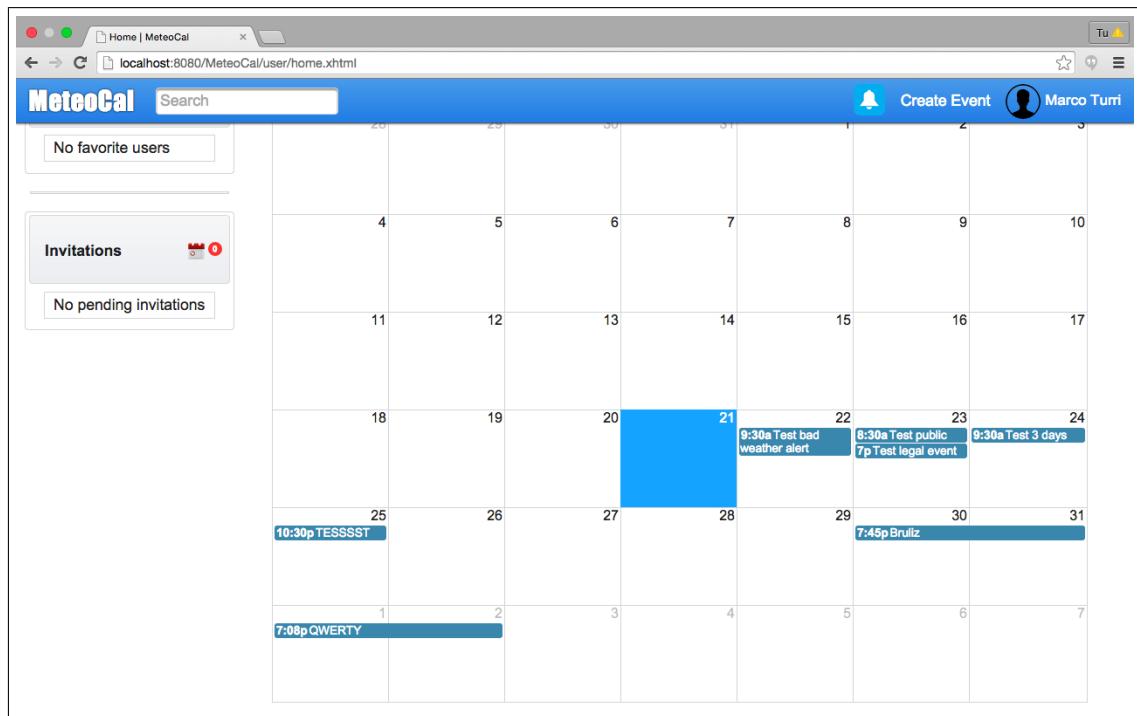


Figure 104: Calendar of current user after import

7.1.6 Export events

In this test a user exports his calendar, as it is possible to see all his information and events are exported in the xml file:

Figure 105: XML file exported

7.2 User's settings

7.2.1 Change image

In this test the user changes his image:

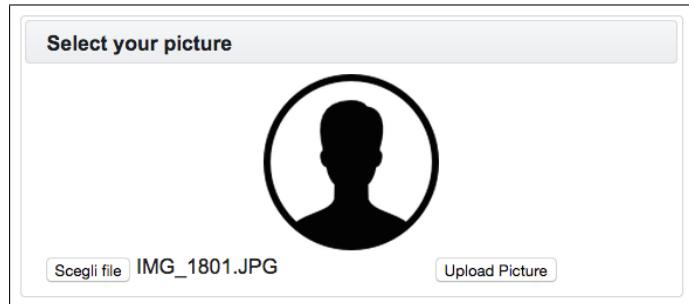


Figure 106: Selecting image

The screenshot shows the 'Settings' page of the MeteoCal application. At the top, there are tabs for 'Settings' and 'MeteoCal', and a search bar. On the right, there is a user profile for 'Marco Turri' and a 'Create Event' button. The main content area is divided into several sections:

- Change Password:** Fields for Old Password, New Password, and Confirm new password, with a 'Set New Password' button.
- Change User's Data:** Fields for Name (Marco), Surname (Turri), Gender (Man), Date of birth, Address, and City (Milano). There is a 'Save' button and a note: "* Mandatory fields".
- Select your picture:** A section where the user has successfully uploaded a new profile picture of a man with glasses and a red jacket. A message says "Picture correctly changed" and "delta". Buttons for "Scegli file", "Nessun file selezionato", and "Upload Picture" are present.
- Change Theme:** A dropdown menu set to "delta".
- Export your data form:** Buttons for "Export" and "Download".
- Import your data:** Buttons for "Scegli file", "Nessun file selezionato", and "Upload".
- Change Calendar Visibility:** A section with a note: "Change visibility of your calendar events".

Figure 107: Image changed and success message

7.2.2 Change theme

In this test the user changes the theme of MeteoCal, by selecting one from the menu in the settings page:

The screenshot shows the MeteoCal Settings page at localhost:8080/MeteoCal/user/settings.xhtml. The 'Change Theme' section is open, displaying a dropdown menu with themes: delta, eggplant, excite-bike, flick, glass-x, home, hot-sneaks, humanity, and le-frog. The 'home' theme is selected. On the right, there is a preview of a user profile picture with the selected theme applied.

Figure 108: Selecting theme

The screenshot shows the MeteoCal Settings page after the theme has been changed. A success message 'Theme correctly changed' is displayed above the 'Change Theme' dropdown, which now shows 'home'. The rest of the page remains the same, including the 'Change Password', 'Change User's Data', and other sections.

Figure 109: Theme changed and success message

7.2.3 Change password fail

In this test the user tries to change his password, but it doesn't match the confirmation:

The screenshot shows a 'Change Password' form. It has three input fields: 'Old Password *' with placeholder dots, 'New Password *' with placeholder dots, and 'Confirm new password' with placeholder dots. Below the fields is a blue 'Set New Password' button.

Figure 110: Changing password

The screenshot shows a 'Change Password' form. The 'Old Password' field is empty. The 'New Password *' field is highlighted in red, indicating an error. The 'Confirm new password' field is also highlighted in red. A red callout box to the right of the 'New Password' field contains the text '☒ New password and confirm don't match'. Below the fields is a blue 'Set New Password' button.

Figure 111: Error message

The password is not changed.

7.2.4 Change password fail1

In this test the user tries to change his password, but the current password is wrong:

The screenshot shows a 'Change Password' form. It has three input fields: 'Old Password *' with five dots, 'New Password *' with six dots, and 'Confirm new password' with six dots. Below the fields is a blue 'Set New Password' button.

Figure 112: Changing password

The screenshot shows the same 'Change Password' form as Figure 112, but with an additional red error message box at the bottom. The message box contains the text 'Insert the right password before change it' in red, preceded by a red checkmark icon.

Figure 113: Error message

The password is not changed.

7.2.5 Change password

In this test the user changes his password:

A screenshot of a MySQL database interface. A query is displayed in the top panel: `SELECT `PASSWORD` FROM `USER` WHERE `EMAIL` = 'ate cwd+marco@gmail.com'`. Below the query, there are two input fields: "Numero di righe:" set to 25 and "Filtra righe:" with a search bar labeled "Cerca nella tabella". A button "+ Opzioni" is visible. In the main results area, there is a section titled "PASSWORD" containing the value: 33184c901fbb7f745366392de9af5c9d482b982e6e4d7112cc...

Figure 114: Database before changing password

A screenshot of the MeteoCal user settings page. The URL is `localhost:8080/MeteoCal/user/settings.xhtml`. The page has a blue header with the MeteoCal logo and a search bar. On the right, there is a user profile for "Marco Turri" and a "Create Event" button. The main content area contains several sections: "Change Password" (with fields for Old Password, New Password, and Confirm new password), "Change User's Data" (with fields for Name, Surname, Gender, Date of birth, Address, City, and a "Save" button), "Change Calendar Visibility" (with a dropdown menu), "Change Theme" (with a dropdown menu showing "delta" and a success message "Password correctly changed" with an info icon), "Select your picture" (with a placeholder image of a person and file selection buttons), "Export your data form" (with "Export" and "Download" buttons), and "Import your data" (with file selection and upload buttons). A red arrow points to the "Password correctly changed" message.

Figure 115: Success message

A screenshot of a MySQL database query results page. The query displayed is:

```
SELECT `PASSWORD` FROM `USER` WHERE `EMAIL` = 'ate cwd+marco@gmail.com'
```

The results table has one row, showing the password field. The password value is:

PASSWORD
41a615318d08e67e2fecdef2882c0c2c48d98dc97ca5eec22f...

Figure 116: Database after changing password

7.2.6 Change data fail

In this test the user tries to change his data, but there is a mandatory field missing:

The screenshot shows a web form titled "Change User's Data". It contains the following fields:

- Name *: Marco (filled)
- Surname *: (empty, highlighted with a red border)
- Gender *: Man (selected from a dropdown)
- Date of birth: (empty)
- Address: (empty)
- City: Milano (filled)

A red callout box next to the empty Surname field contains the text "Insert your last name". Below the form, a note says "* Mandatory fields".

Figure 117: Error message

7.2.7 Change data

In this test the user changes his data:

Change User's Data

Name *	Marco
Surname *	Turri
Gender *	Man
Date of birth	12/01/15
Address	Via Golgi
City	Milano

Save
* Mandatory fields

Figure 118: Updated fields (address, date of birth)

The screenshot shows the MeteoCal settings interface. On the left, there are three main sections: 'Change Password' (with fields for Old Password, New Password, and Confirm new password), 'Change User's Data' (with fields for Name, Surname, Gender, Date of birth, Address, and City, and a 'Save' button), and 'Change Calendar Visibility'. On the right, there are four sections: 'Change Theme' (with a dropdown menu set to 'delta'), 'Select your picture' (showing a placeholder image of a person with glasses and a red jacket, with buttons for 'Scegli file', 'Nessun file selezionato', and 'Upload Picture'), 'Export your data form' (with 'Export' and 'Download' buttons), and 'Import your data' (with 'Scegli file', 'Nessun file selezionato', and 'Upload' buttons). A blue callout bubble with the text 'User's data correctly changed' and an info icon is positioned above the 'Change Theme' section, with a red arrow pointing to it from the left.

Figure 119: Success message

7.2.8 Change calendar visibility

In this test the user changes his calendar's visibility:

The screenshot shows the MeteoCal Settings page at localhost:8080/MeteoCal/user/settings.xhtml. The top navigation bar includes 'Create Event' and a user profile for 'Marco Turri'. The main content area has several sections: 'New Password' (with fields for 'New Password' and 'Confirm new password'), 'Change User's Data' (with fields for Name, Surname, Gender, Date of birth, Address, City, and a 'Save' button), 'Select your picture' (with a placeholder image of a person with glasses and a red jacket, and buttons for 'Scegli file', 'Upload Picture', and 'Nessun file selezionato'), 'Export your data form' (with 'Export' and 'Download' buttons), and 'Import your data' (with 'Scegli file', 'Upload', and 'Nessun file selezionato' buttons). The 'Change Calendar Visibility' section is highlighted, showing 'Visibility' set to 'Private' with a dropdown menu and a 'Save' button. A note at the bottom of this section states '* Mandatory fields'.

Figure 120: Set calendar private

The screenshot shows the MeteoCal User Profile page at localhost:8080/MeteoCal/user/showUser.xhtml?email=ate cwd%2Bmarco%40gmai. The top navigation bar includes 'Create Event' and a user profile for 'Andrea Turri'. On the left, there is a sidebar for 'Marco Turri' showing a profile picture, gender (M), birthday (01/12/2015), address (Via Golgi), and city (Milano). The main content area displays a message: 'You can't view the calendar of this user cause the owner set his calendar private.'.

Figure 121: What other users see

The screenshot shows the 'Settings' page of the MeteoCal application. At the top right, there is a notification icon with a yellow warning sign and the text 'Tu ⚠'. To its right are buttons for 'Create Event' and a user profile picture of Marco Turri.

New Password * fields: 'New Password' and 'Confirm new password' with a 'Set New Password' button below them.

Change User's Data section:

- Name *: Marco
- Surname *: Turri
- Gender *: Man
- Date of birth: 12/01/15
- Address: Via Golgi
- City: Milano

Save button and a note: '* Mandatory fields'.

Change Calendar Visibility section:

- Visibility *: Public

Save button and a note: '* Mandatory fields'.

A message box at the top right says: 'Select your picture' and 'Calendar's visibility correctly changed' with an info icon.

Select your picture section: A preview image of a man with glasses and a red jacket, with buttons for 'Scegli file', 'Nessun file selezionato', and 'Upload Picture'.

Export your data form section: Buttons for 'Export' and 'Download'.

Import your data section: Buttons for 'Scegli file', 'Nessun file selezionato', and 'Upload'.

Figure 122: Set calendar public

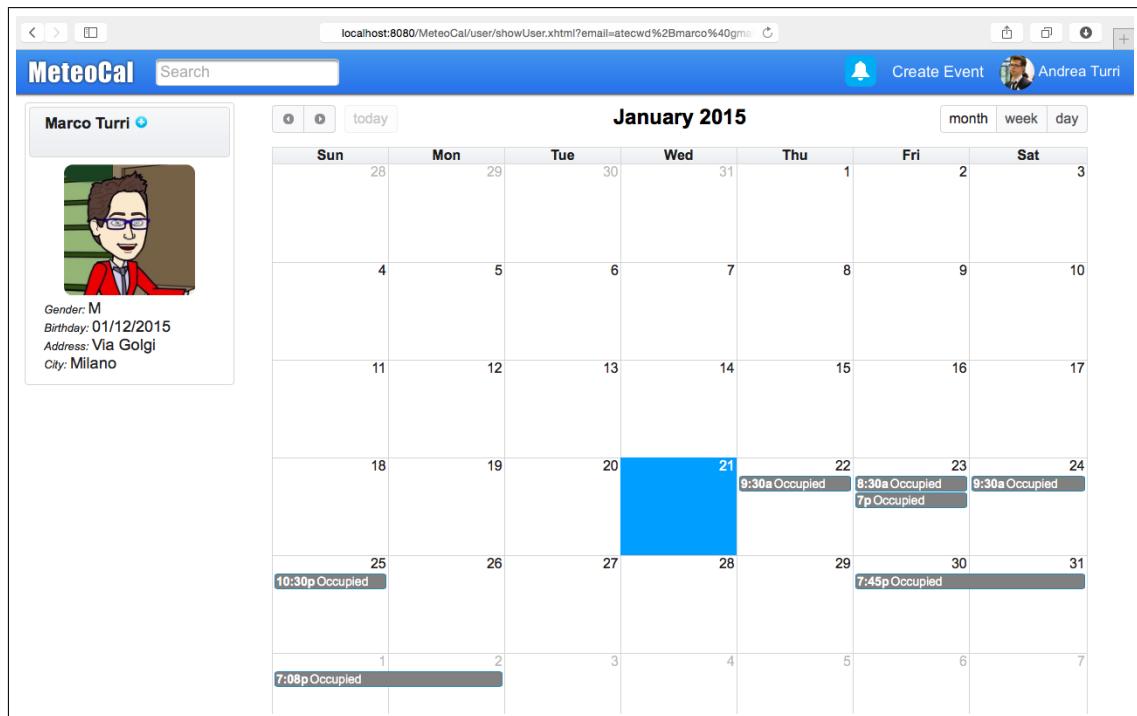


Figure 123: What other users see