

Politecnico di Milano



SOFTWARE ENGINEERING 2

**MeteoCal**

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## Testing report

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# Contents

<b>1</b>	<b>Introduction</b>	<b>4</b>
<b>2</b>	<b>Events</b>	<b>5</b>
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
<b>3</b>	<b>Notifications</b>	<b>30</b>
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
<b>4</b>	<b>Search</b>	<b>33</b>
4.1	Embedded search . . . . .	33
4.1.1	Users . . . . .	33
4.1.2	Events . . . . .	34
4.2	User's profiles . . . . .	35
<b>5</b>	<b>Favorites</b>	<b>36</b>
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
<b>6</b>	<b>Security</b>	<b>40</b>
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
<b>7</b>	<b>Settings</b>	<b>66</b>
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

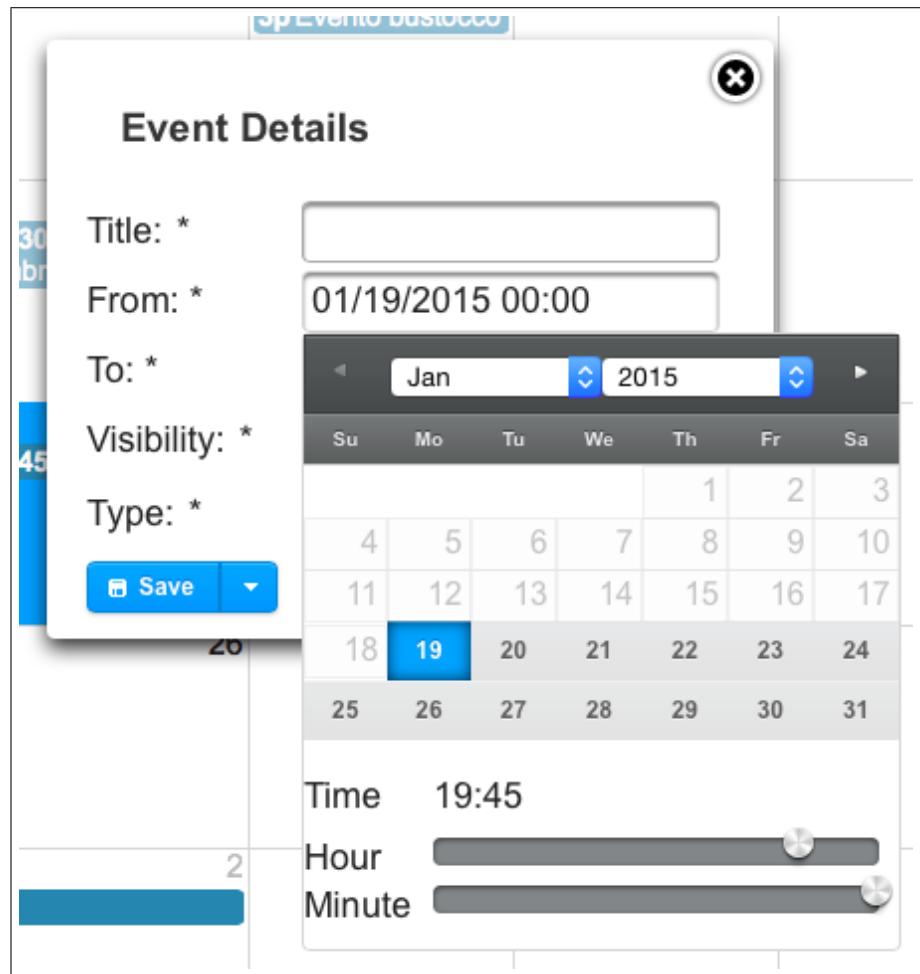


Figure 2: Quick creation from calendar

### 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"/>	<b>☒ Title: Validation Error: Value is required.</b>
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"/>	<b>☒ Visibility: Validation Error: Value is required.</b>
Type *	<input type="radio"/> Indoor <input type="radio"/> Outdoor	<b>☒ Type: Validation Error: Value is required.</b>
Invite users	<input type="text"/>	
<b>Create</b>		

\* 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
<b><input checked="" type="checkbox"/> This event overlaps with an existing one!</b>	
<b>Create</b>	

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 *
<b>Create</b>	

Figure 6: Creation

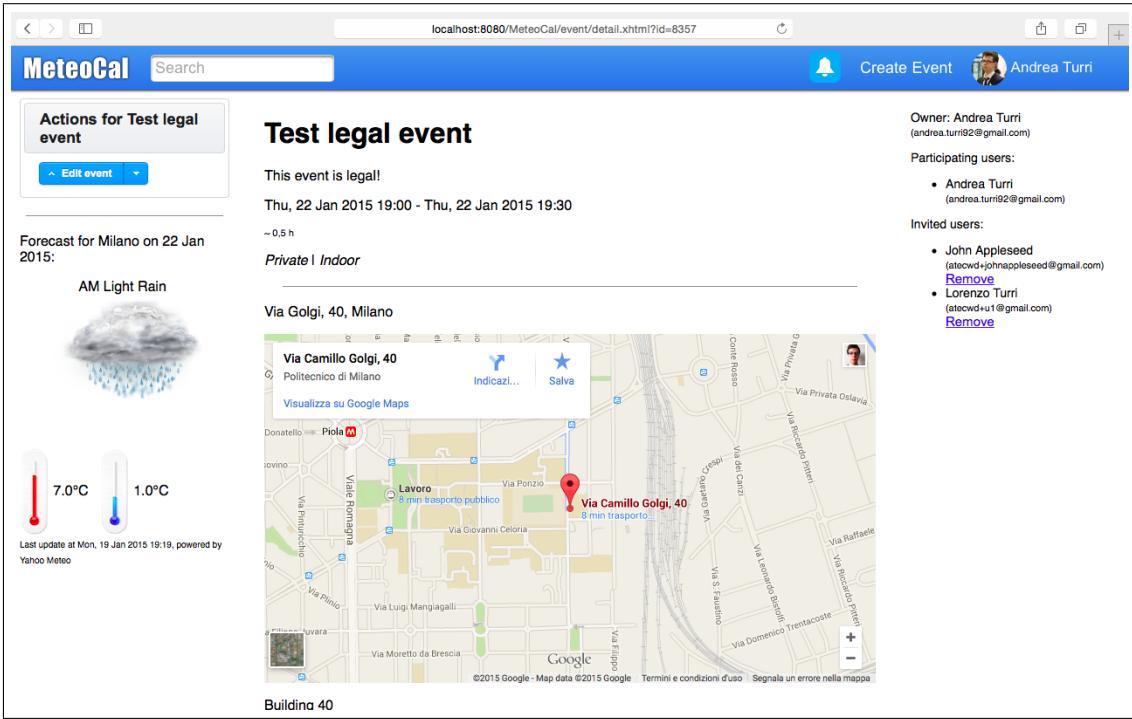


Figure 7: Result

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.

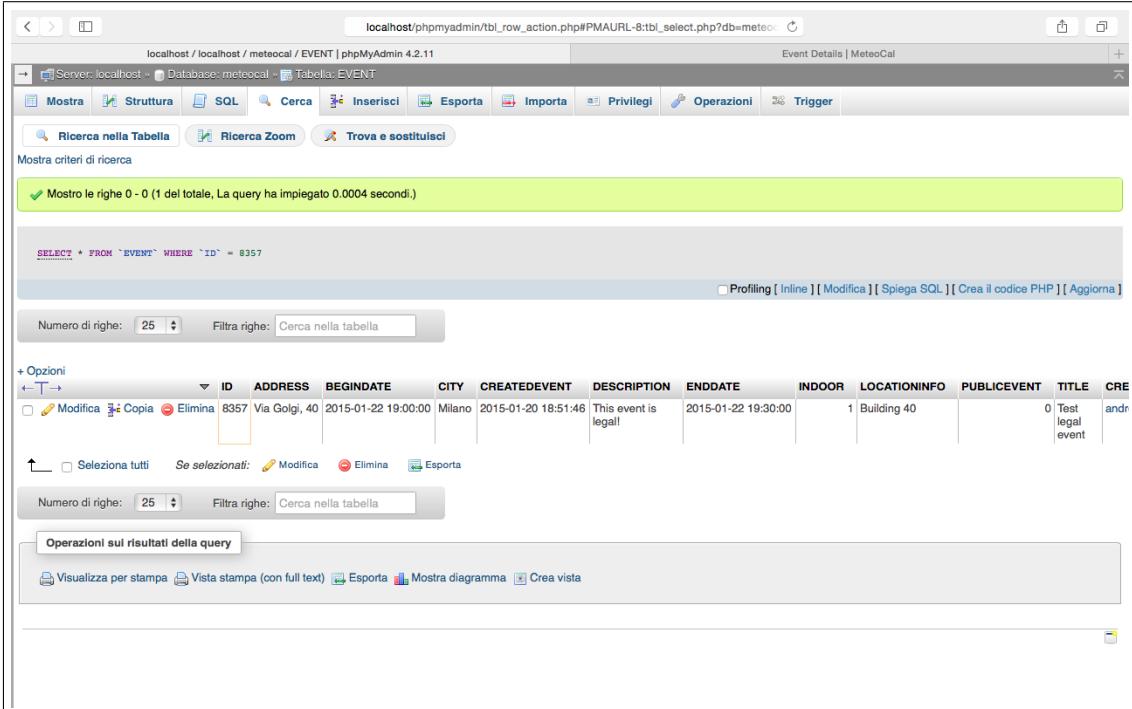


Figure 8: Database result

### 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.
- Event Title**: Test minimum
- 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

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 says: '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:

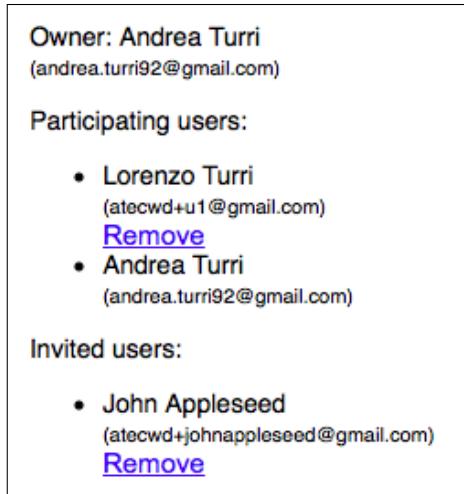


Figure 13: Remove invited user

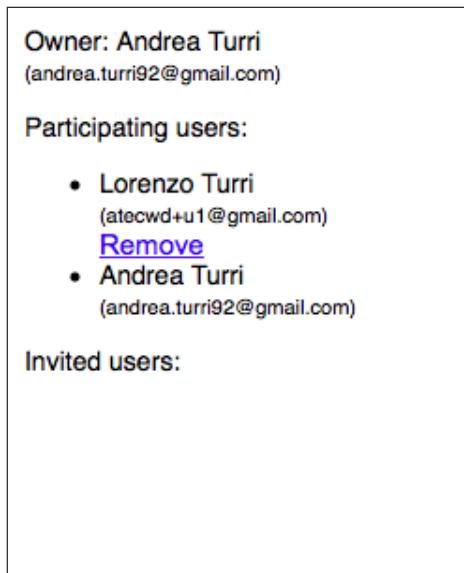


Figure 14: Removed invited user

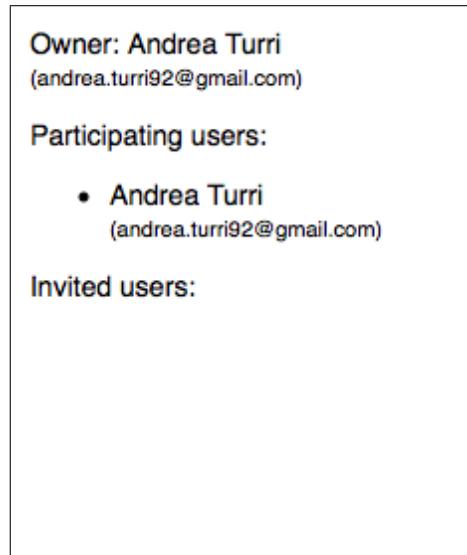


Figure 15: Removed participant user

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:

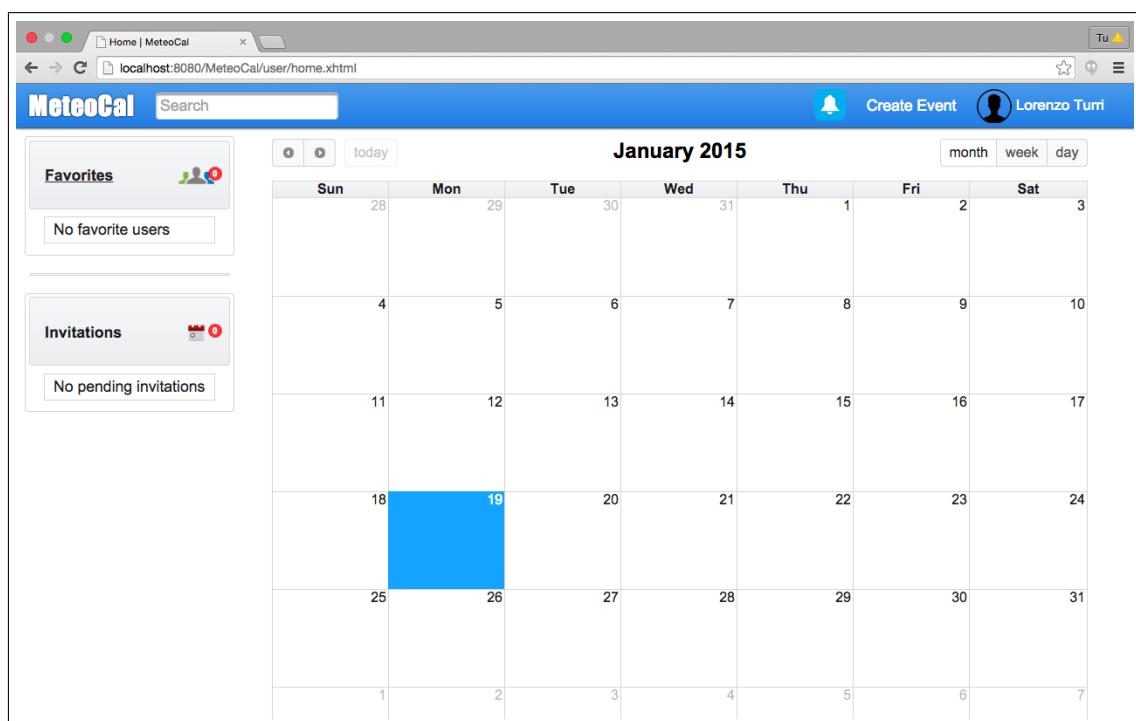


Figure 16: Removed event

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

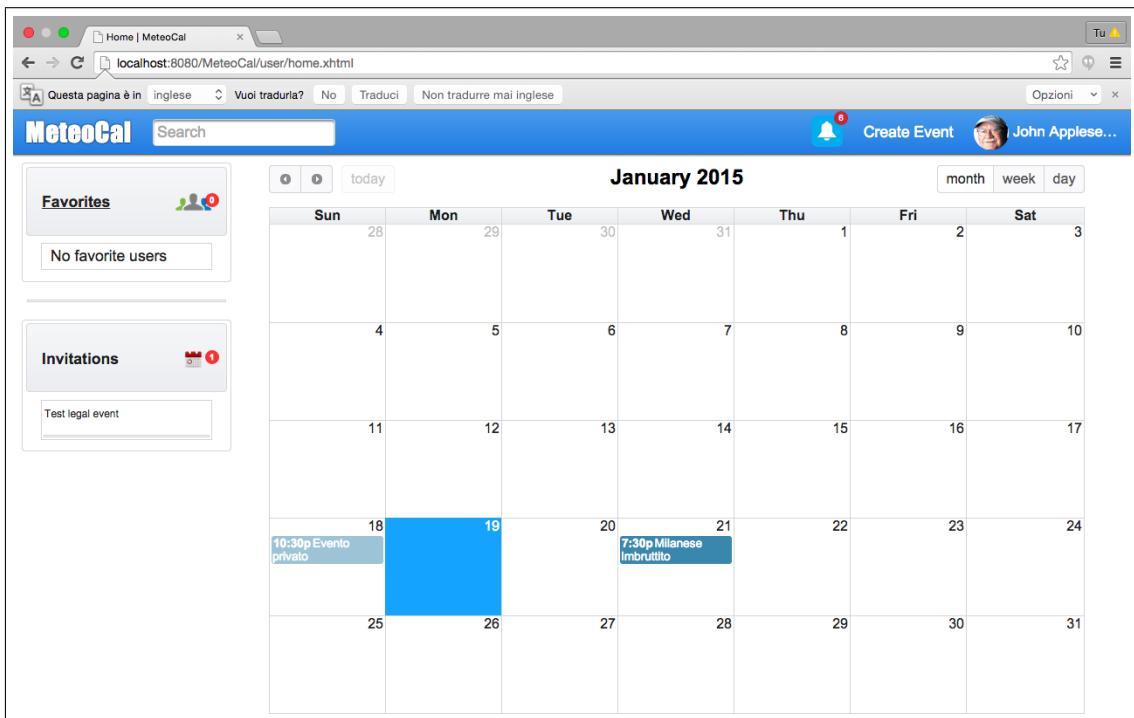


Figure 17: Removed invitation

## 2.2.2 Update an event

In this test we start from the following situation:

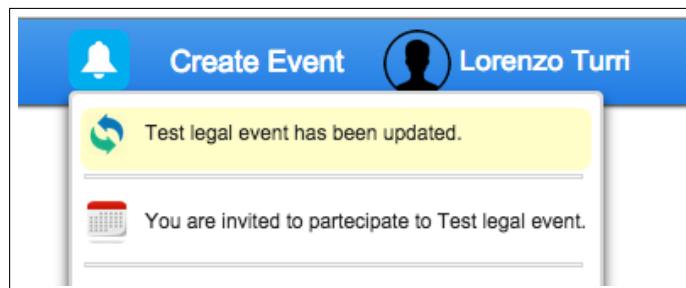
The screenshot shows the MeteoCal application interface. At the top, there's a header with the title 'MeteoCal' and a search bar. Below the header, the main content area displays an event titled 'Test legal event'. The event details include the date (Thu, 22 Jan 2015 19:00 - Thu, 22 Jan 2015 19:30),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

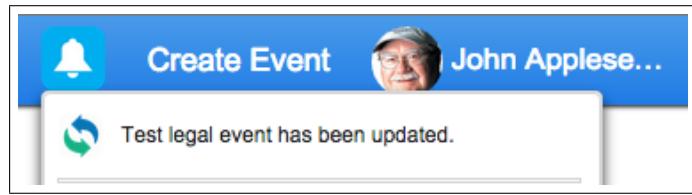
Figure 18: Event

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:

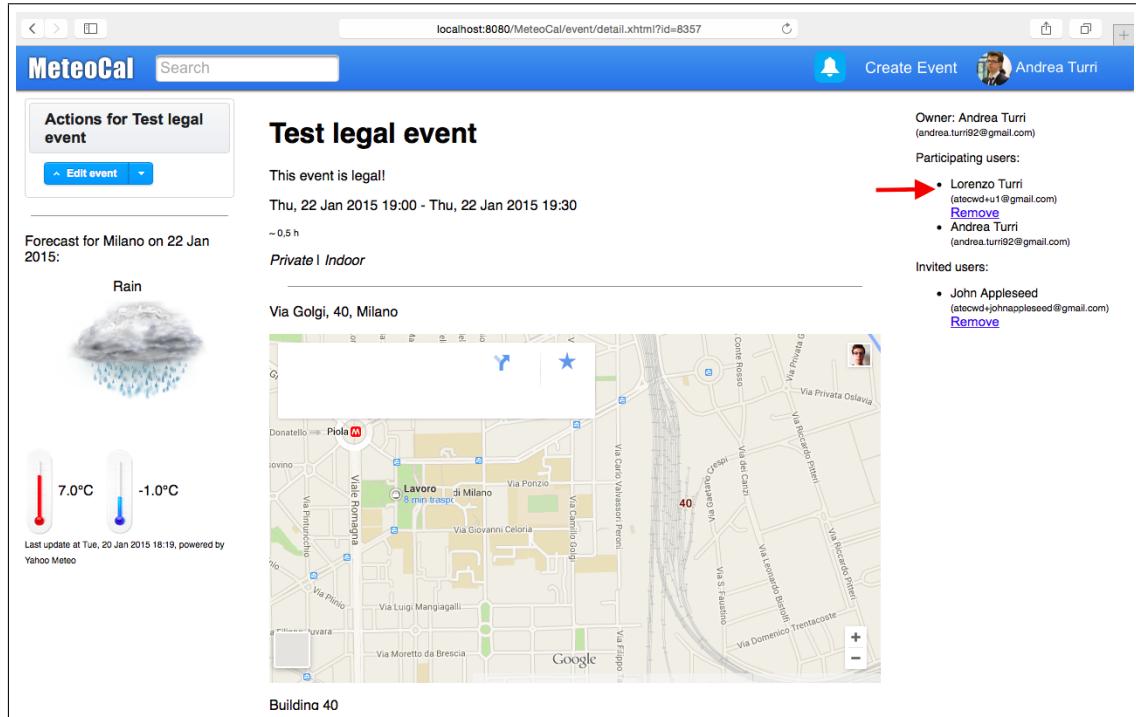


Figure 19: Event

...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 with the title 'MeteoCal' and a search bar. On the right side of the header, there are buttons for 'Create Event' and a user profile for 'Andrea Turr'. 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 indicating the event's location and shows nearby 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 'Remove' links. A note at the bottom left indicates the forecast is powered by 'Yahoo Meteo'.

Figure 21: Event to be deleted

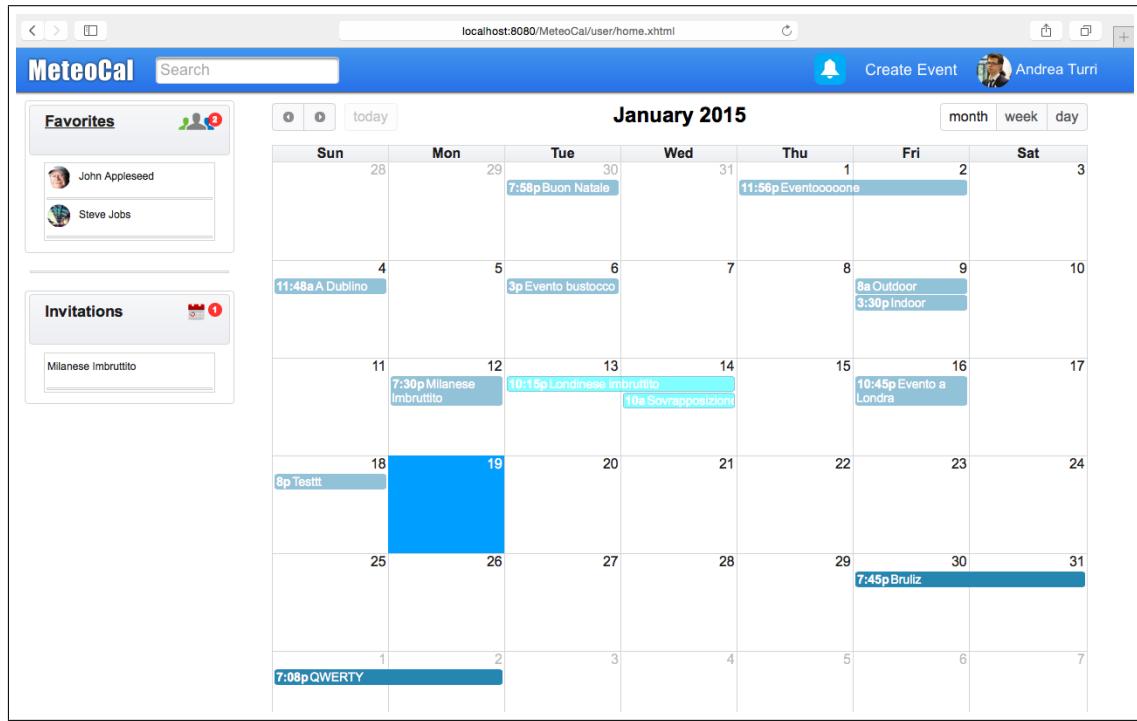


Figure 22: Calendar of user after deletion

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

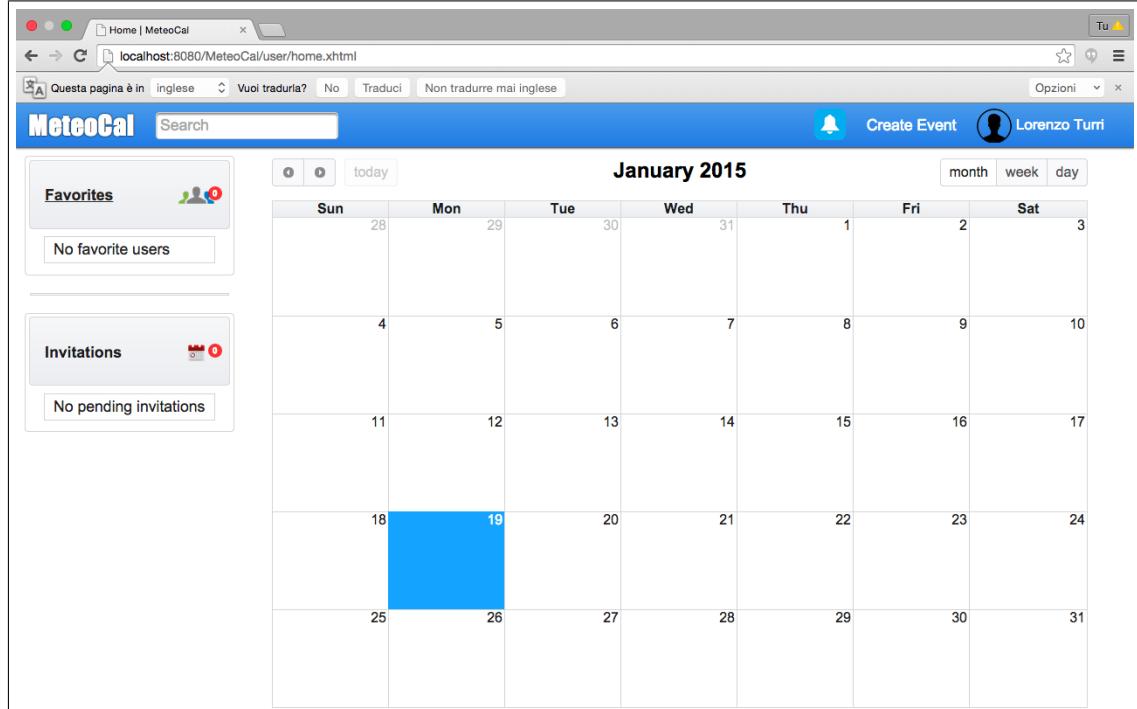


Figure 23: Calendar of a participant after the deletion

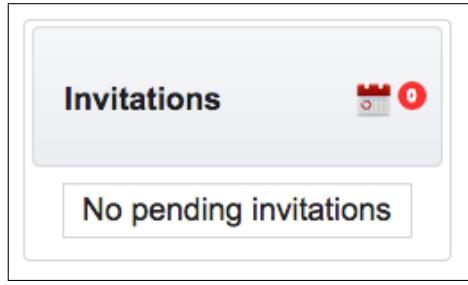


Figure 24: List of invitations for a user that was invited

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

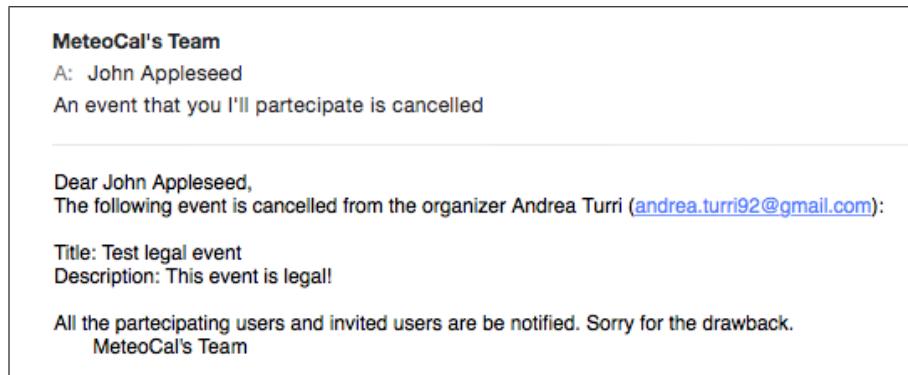


Figure 25: Email notification for deletion

## 2.4 Invitations

### 2.4.1 Receive an invitation

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

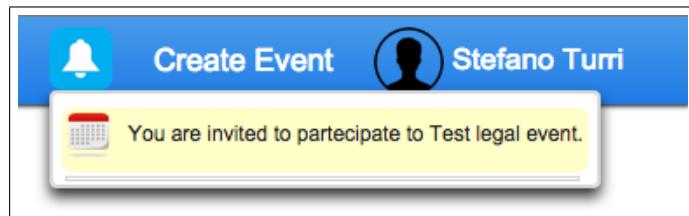


Figure 26: Notification

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

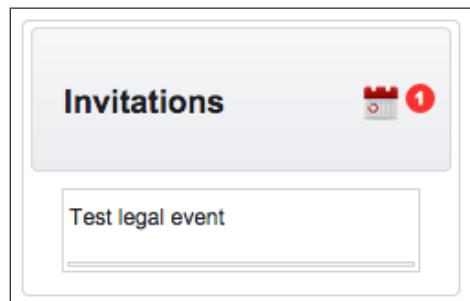


Figure 27: List of invitations for a user that was invited

### 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:

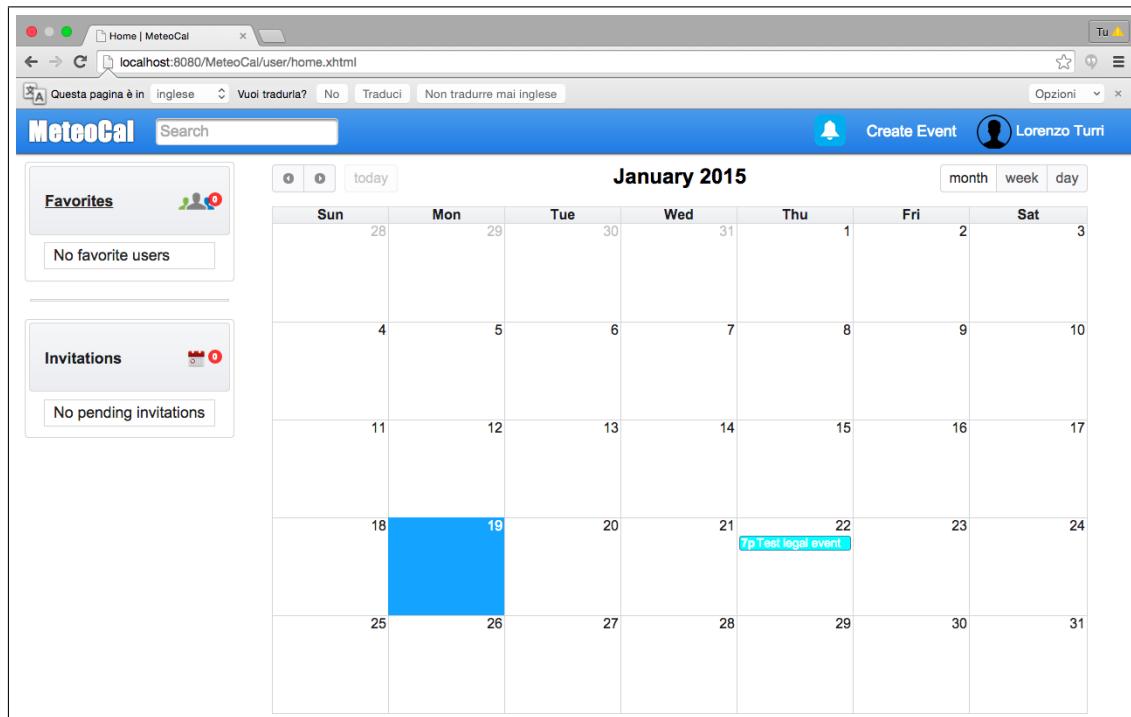


Figure 28: Calendar of user after accepting invitation

### 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:

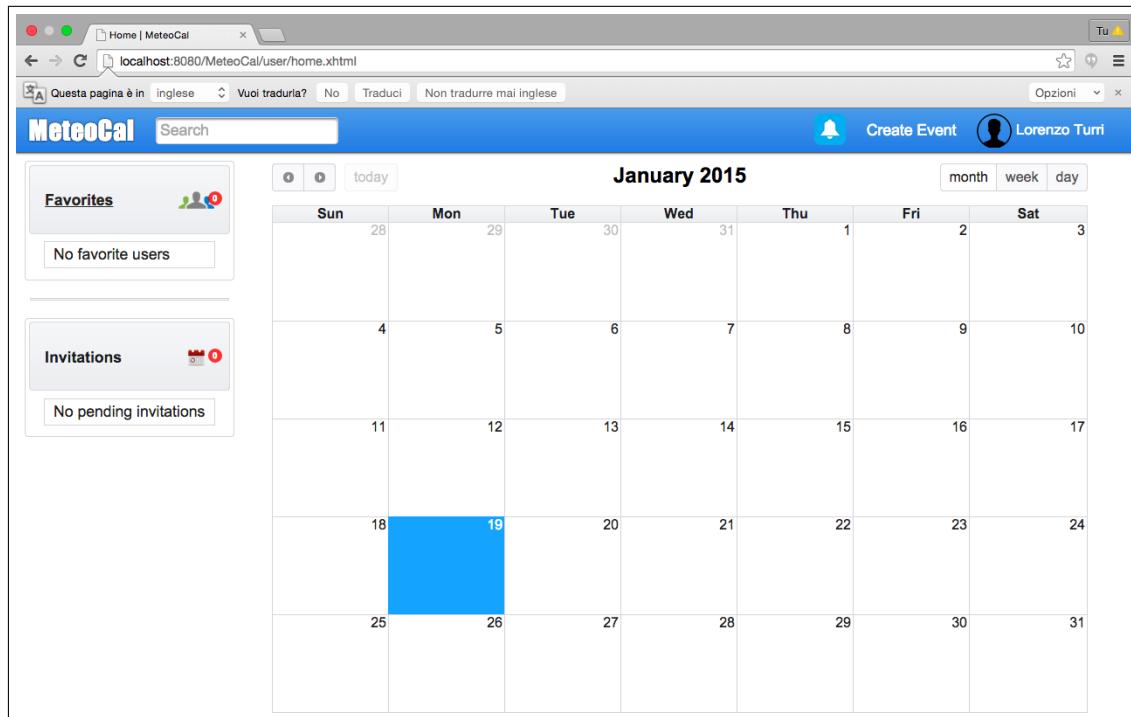


Figure 29: Calendar of user after refusing invitation

#### 2.4.4 Remove event after accepting

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

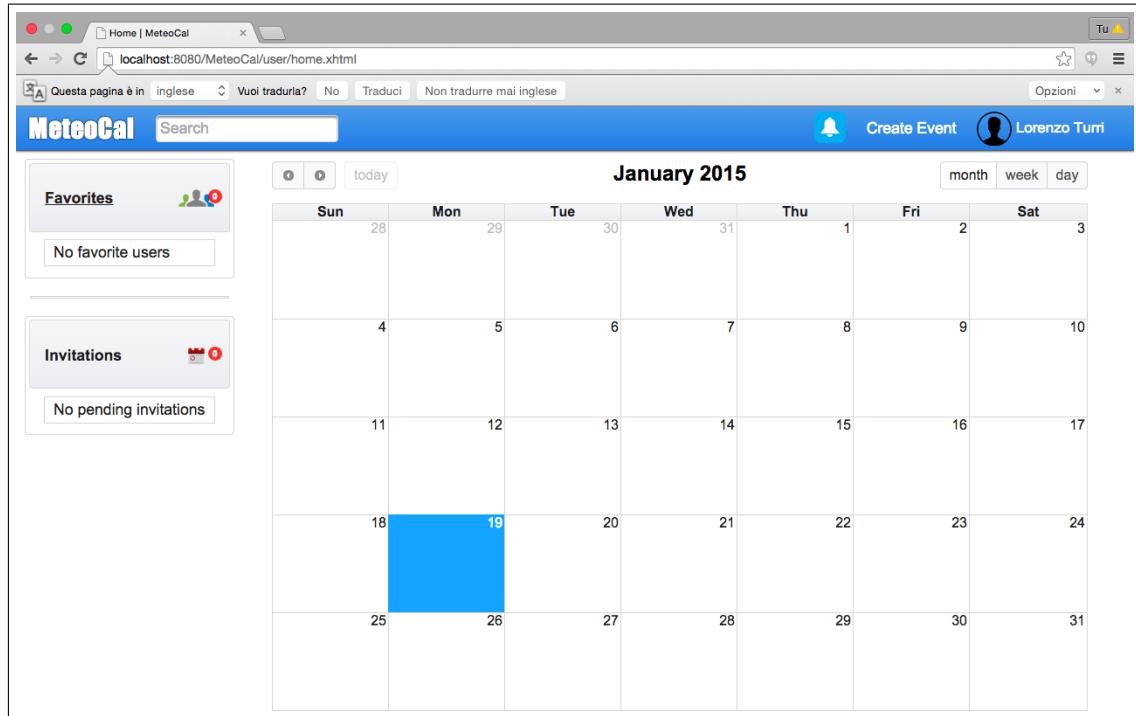


Figure 30: Calendar of user after removing event

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 31: Scheduled task

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

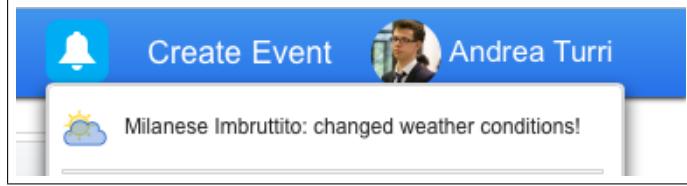


Figure 32: Notification

### 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 33: 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:

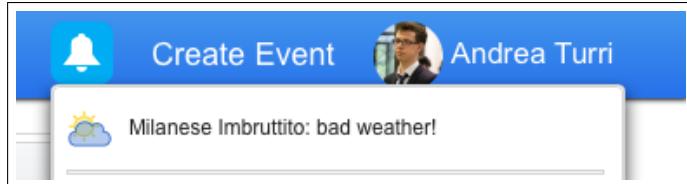


Figure 34: Notification

### 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 35: 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:

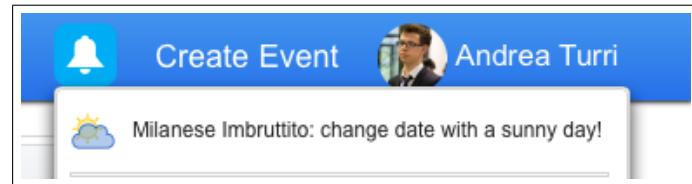


Figure 36: Notification

## 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:

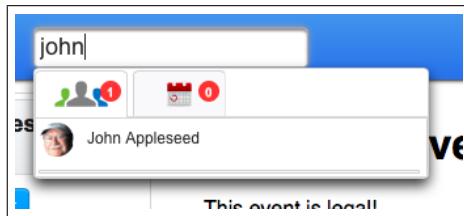


Figure 37: Search by name

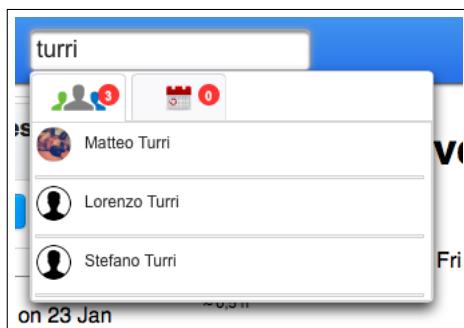


Figure 38: Search by surname



Figure 39: 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:

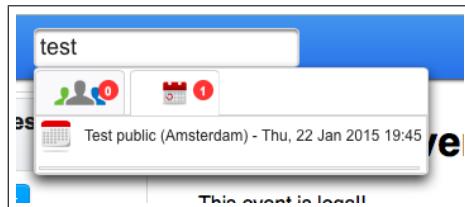


Figure 40: Search by title



Figure 41: 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:

The screenshot shows the MeteoCal application interface. On the left, there is a sidebar for 'John Appleseed' featuring a profile picture of a man with glasses and a mustache, and basic demographic information: Gender: M, Birthday: 02/24/1955, Address: Infinite Loop, City: Cupertino. The main area displays a monthly calendar for January 2015. A blue event box covers the period from January 19 to January 20, labeled '10:30p Occupied'. A green event box covers the period from January 20 to January 21, labeled '7:30p Milanese Imbruttito'. The rest of the month is mostly empty, with a few small grey boxes indicating days off.

Figure 42: Complete profile with public calendar

The screenshot shows the MeteoCal application interface for 'Lorenzo Turri'. The sidebar displays a placeholder profile icon and basic demographic information: Gender: M, Birthday: 01/1/2015, Address: City: . A message in the center states: 'You can't view the calendar of this user cause the owner set his calendar private.' The main calendar area is completely blank.

Figure 43: 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:

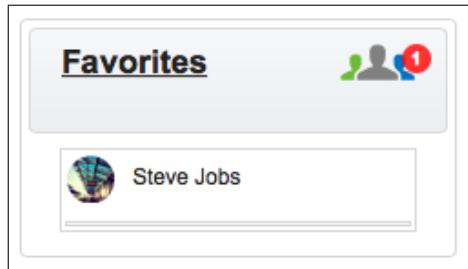


Figure 44: Favorites bar before adding



Figure 45: Favorite user to be added

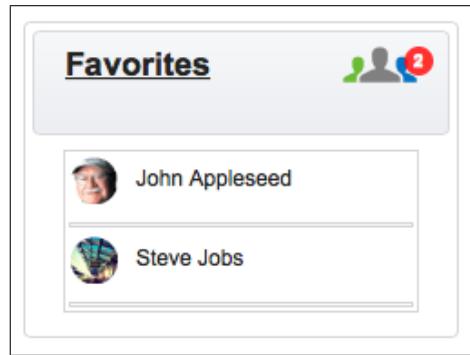


Figure 46: Favorites bar after adding

### 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:

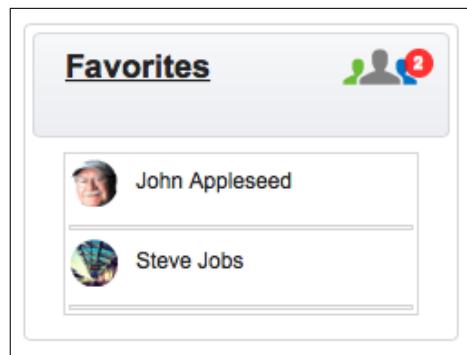


Figure 47: Favorites bar before removing



Figure 48: Favorite user to be removed

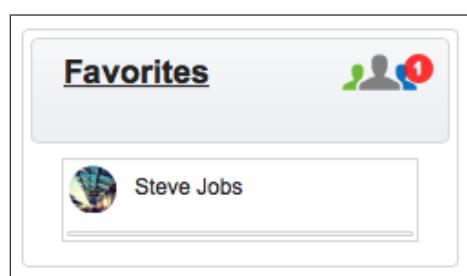


Figure 49: Favorite bar after removing

## 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:

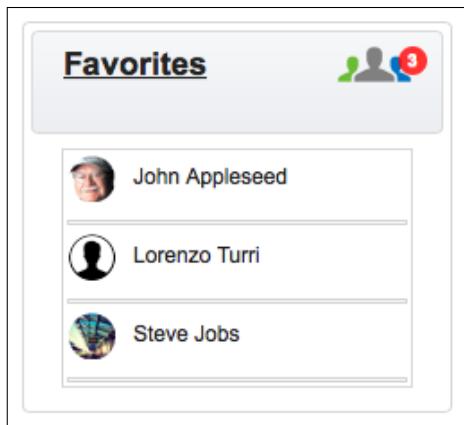


Figure 50: Favorites bar before removing



Figure 51: Favorites multiple deletion

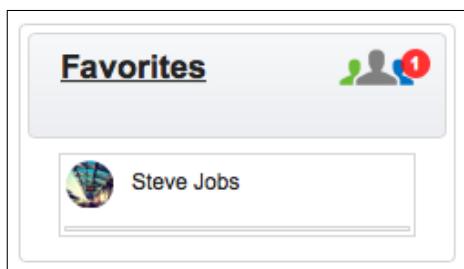


Figure 52: Favorites bar after removing

## 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.

**Mandatory fields**

**Register**

Figure 53: 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, specifically stating '☒ Password should match with Confirm Password.' Below the form is a note indicating which fields are mandatory.

Figure 54: 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:

**Registration Form**

Name: *	<input type="text" value="Marco"/>
Surname *	<input type="text" value="Turri"/>
Gender *	<input type="text" value="Man"/>
Date of birth	<input type="text"/>
Address	<input type="text"/>
City	<input type="text" value="Milano"/>
Email *	<input type="text" value="ate cwd@gmail.com"/>
Password *	<input type="text"/>
Confirm Password *	<input type="text"/>

**⚠ Email already registered**

**Register**

\* Mandatory fields

Figure 55: 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 56: 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 57: Valid registration

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

localhost/phpmyadmin/index.php?token=a4833d897961589585e872db5cc35633

Login | MeteoCal

localhost / localhost / meteocal / USER | phpMyAdmin 4.2.11

Server: localhost ~ Database: meteocal ~ Tabella: USER

Mostra Struttura SQL Cerca Inserisci Esporta Importa Privilegi Operazioni Trigger

Ricerca nella Tabella Ricerca Zoom Trova e sostituisci

Mostra criteri di ricerca

Mostrò le righe 0 - 0 (1 del totale, La query ha impiegato 0.0004 secondi.)

SELECT \* FROM `USER` WHERE `EMAIL` LIKE '%atecwd+marco@gmail.com%' Profiling [ Inline ] [ Modifica ] [ Spiega SQL ] [ Crea il codice PHP ] [ Aggiorna ]

Numero di righe: 25 Filtra righe: Cerca nella tabella

+ Opzioni	EMAIL	ADDRESS	BIRTHDATE	CITY	GENDER	GROUPNAME	LASTACCESS	NAME	PASSWORD
<input type="checkbox"/> Modifica <input type="checkbox"/> Copia <input type="checkbox"/> Elimina	atetcwd+marco@gmail.com	NULL	NULL	Milano	M	USER	2015-01-20 20:04:44	Marco	41a615318d08e67e2fe0de12882c0c2c48d98dc97

Numero di righe: 25 Filtra righe: Cerca nella tabella

Operazioni sui risultati della query

Visualizza per stampa Vista stampa (con full text) Esporta Mostra diagramma Crea vista

Figure 58: 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 59: 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.

Figure 60: User exists

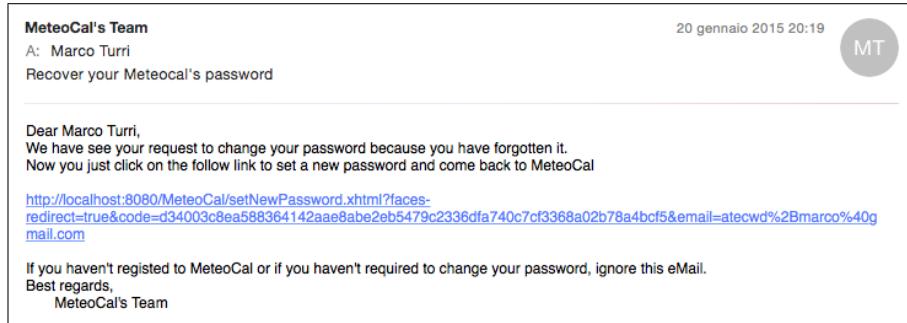


Figure 61: Email

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"/>
<b>Set New Password</b>	

Figure 62: 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"/>
<b>Set New Password</b>	<span style="background-color: #f08080; padding: 5px;">☒ The code is not valid</span>

Figure 63: Password not matching

...or in case the URL is not correct:

**Set New Password Form**

Password *	<input type="text"/>
Confirm Password *	<input type="text"/>
<b>Set New Password</b>	<span style="background-color: #f08080; padding: 5px;">☒ User not found</span>

Figure 64: 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:

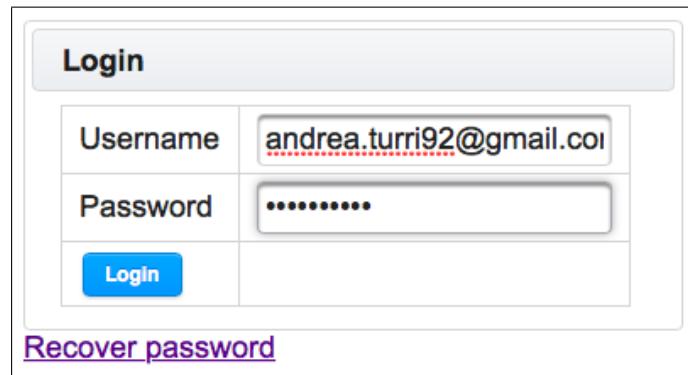
The image shows a login form titled "Login". It has two input fields: "Username" and "Password", both of which are empty. Below the inputs are two buttons: a blue "Login" button and a red button containing a white "X" icon with the text "Login failed". At the bottom of the form is a link labeled "Recover password".

Figure 65: 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 redacted dots. Below the password field is a blue "Login" button. At the bottom of the form is a link labeled "Recover password".

Figure 66: User fills login form correctly

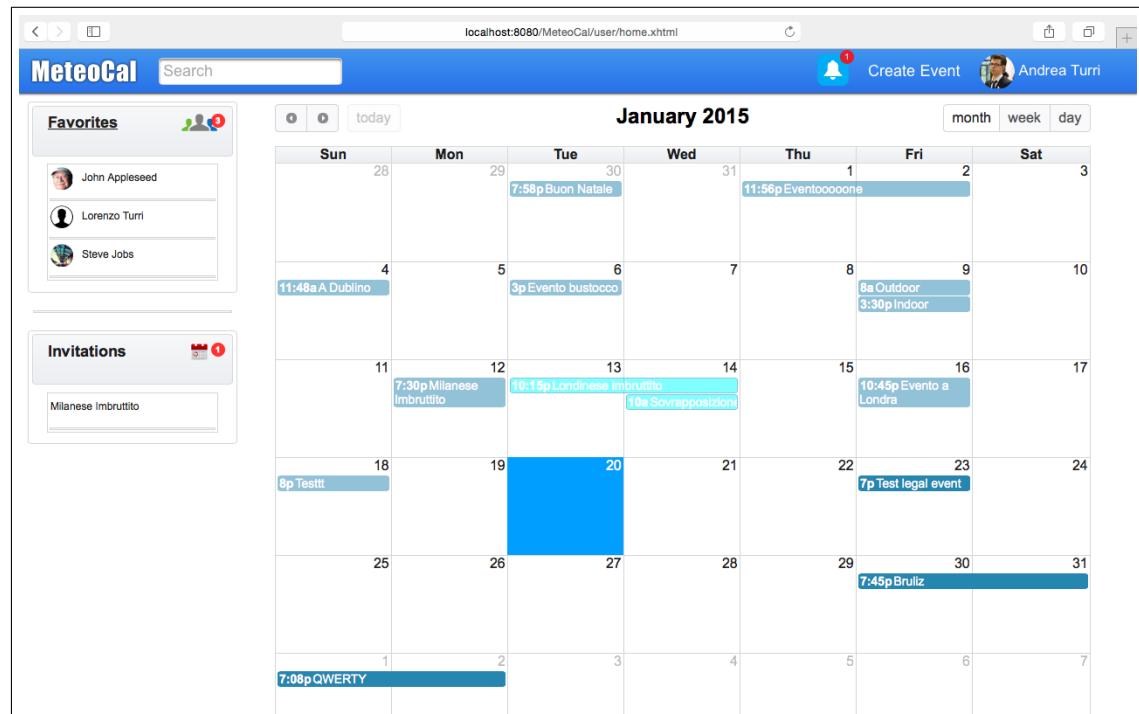


Figure 67: User logged in

### 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 68: 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 69: 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:

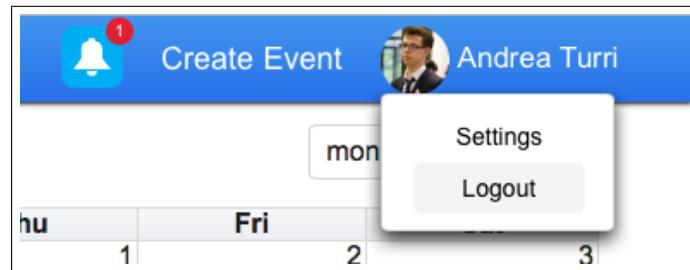


Figure 70: User click Logout

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

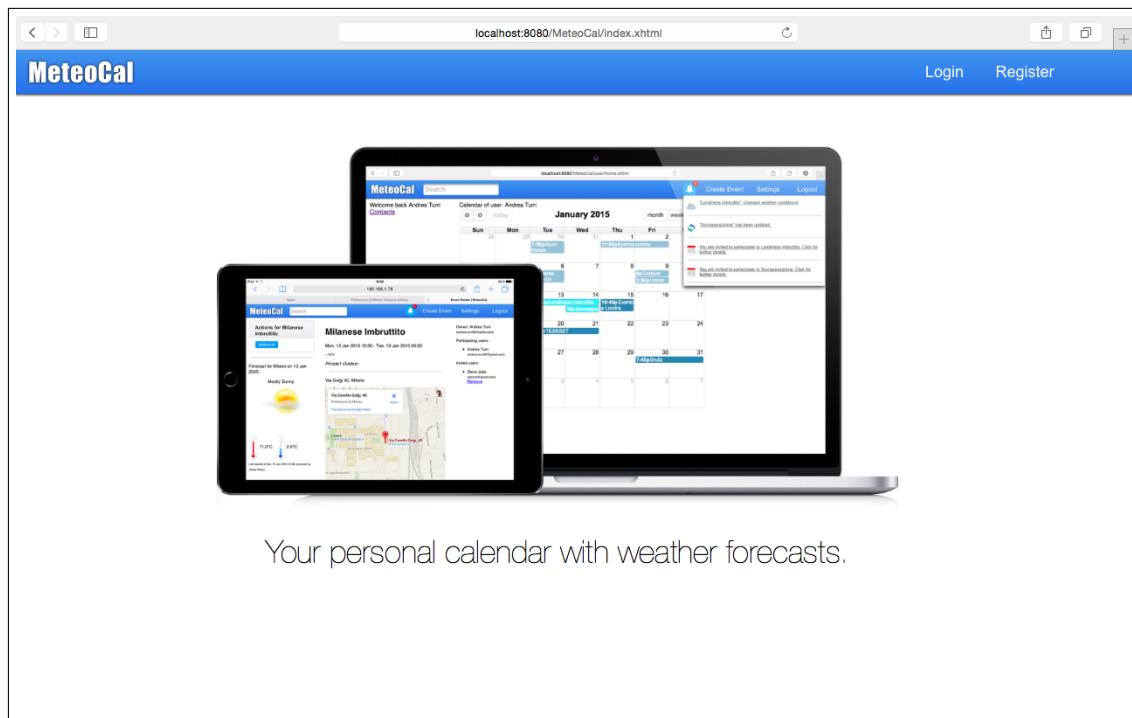


Figure 71: User logged out

### 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 titled "Login". The form has three fields: "Username" with an input field, "Password" with an input field, and a blue "Login" button. Below the form is a link "Recover password".

Figure 72: 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 titled "Login". The form has three fields: "Username" with an input field, "Password" with an input field, and a blue "Login" button. Below the form is a link "Recover password".

Figure 73: 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 titled "Login". The form has three fields: "Username" with an input field, "Password" with an input field, and a blue "Login" button. Below the form is a link "Recover password".

Figure 74: Search folder: auth required

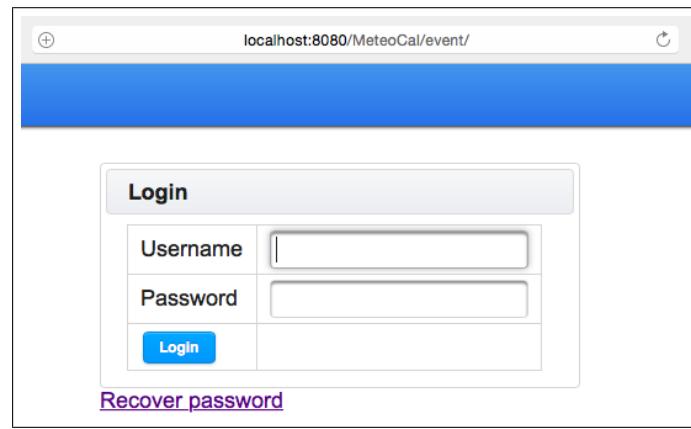


Figure 75: Event folder: auth required

## 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:

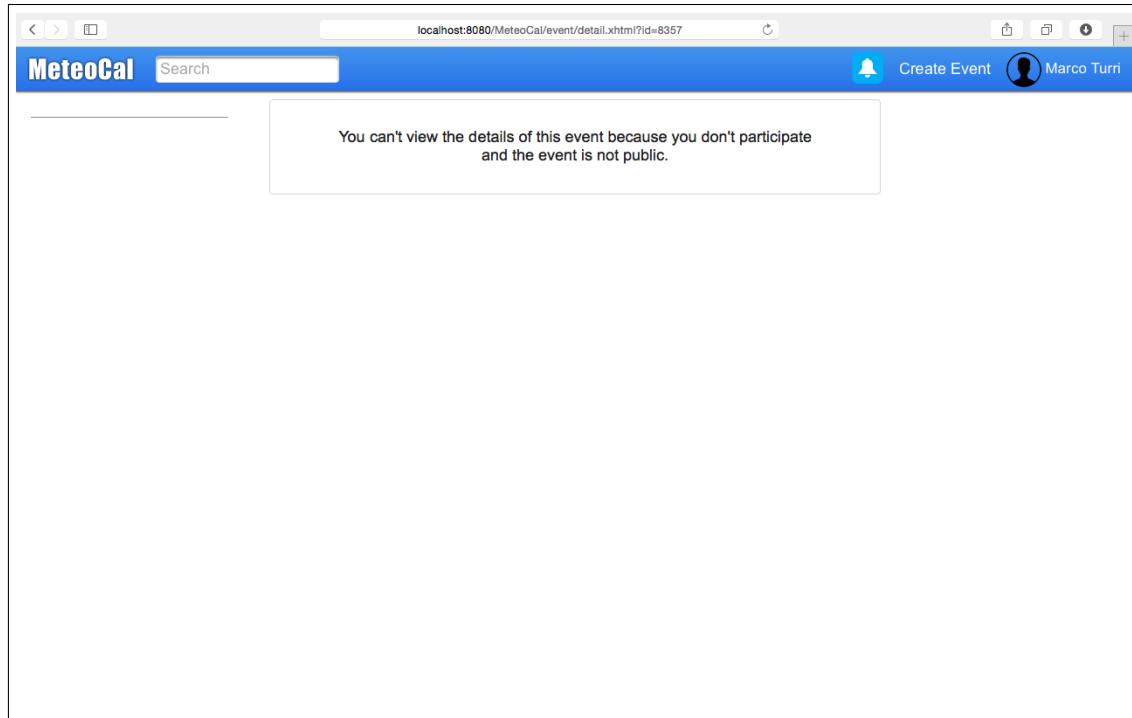


Figure 76: User not authorized

### 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". On the left, there is a sidebar with "Actions for Test legal event" and a "Remove 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, there is a weather forecast for Milano: "Sunny" with a sun icon, temperature "12.0°C", and humidity "0.0°C". A note says "Last update at Tue, 20 Jan 2015 21:20, powered by Yahoo Meteo". To the right, there is information about the owner: "Owner: Andrea Turri (andrea.turri92@gmail.com)" and "Participating users: Lorenzo Turri (atecwid+u1@gmail.com), Andrea Turri (andrea.turri92@gmail.com)". Below this, there is a section for "Invited users: John Appleseed (atecwid+johnappleseed@gmail.com)". At the bottom, there is a map of Via Camillo Golgi, 40, Milano, showing the location and nearby streets like Viale Romagna, Via Ponzio, and Via Giovanni Celoria.

Figure 77: Participant user

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

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

**MeteoCal** Search

You received an invitation by Andrea Turri

**Test legal event**

This event is legal!

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

~0.5 h

Forecast for Milano on 23 Jan 2015:

Sunny



12.0°C 0.0°C

Last update at Tue, 20 Jan 2015 21:20, powered by Yahoo Meteo

Private | Indoor

Via Golgi, 40, Milano



Building 40

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

Participating users:

- Lorenzo Turri (stecwd+u1@gmail.com)
- Andrea Turri (andrea.turri92@gmail.com)

Invited users:

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

Figure 78: Invited user

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

localhost:8080/MeteoCal/event/detail.xhtml?id=8554

**MeteoCal** Search

You received an invitation by Andrea Turri

**Test past**

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

~0.5 h

Private | Indoor

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

Participating users:

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

Invited users:

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

Figure 79: 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 is a sidebar with "Actions for Test legal event" and a "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", "~0.5 h", and "Private | Indoor". Below this, there 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 is a map of Via Camillo Golgi, 40, Politecnico di Milano, showing surrounding streets like Viale Romagna, Via Moretto da Brescia, and Via Luigi Mangiagalli. A legend indicates "Lavoro - 10 min a piedi". The map also includes a "Visualizza su Google Maps" link and a "Salva" button. On the far right, there are sections for "Owner: Andrea Turri (andrea.turri92@gmail.com)", "Participating users" (Lorenzo Turri and Andrea Turri), and "Invited users" (John Appleseed). A small profile picture of Andrea Turri is visible in the top right corner.

Figure 80: 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 81: 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:

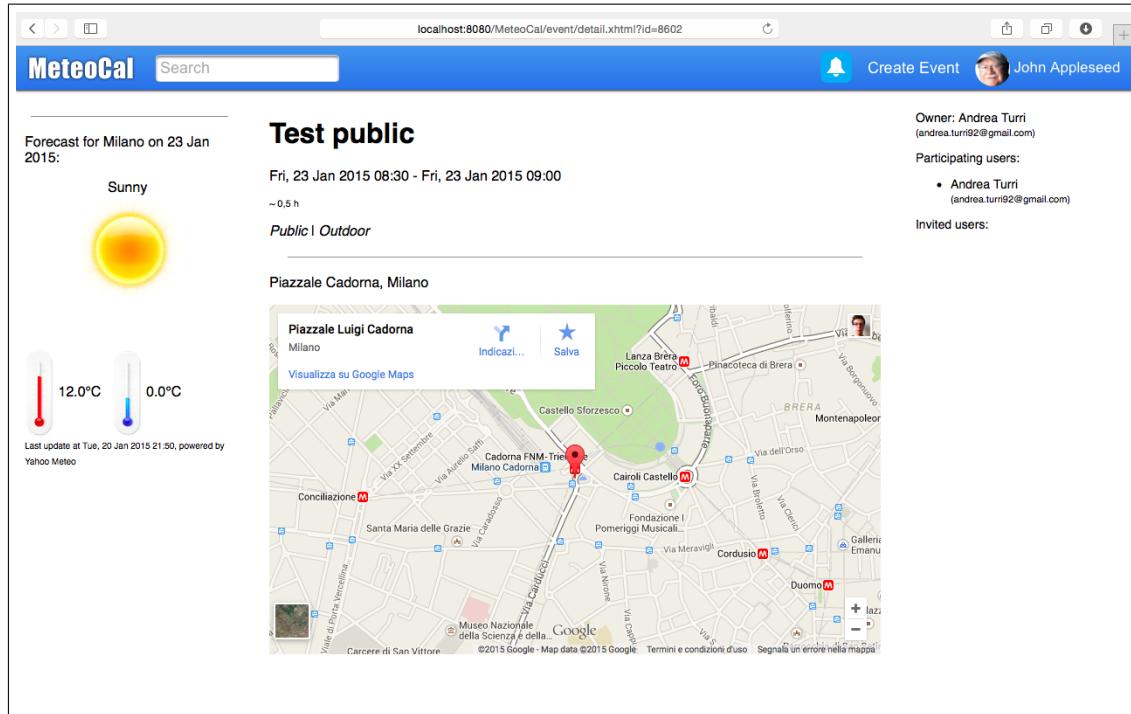


Figure 82: Event details, public, unrelated user

## 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 83: Update an event

### 6.3.2 Quick edit, creator user

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

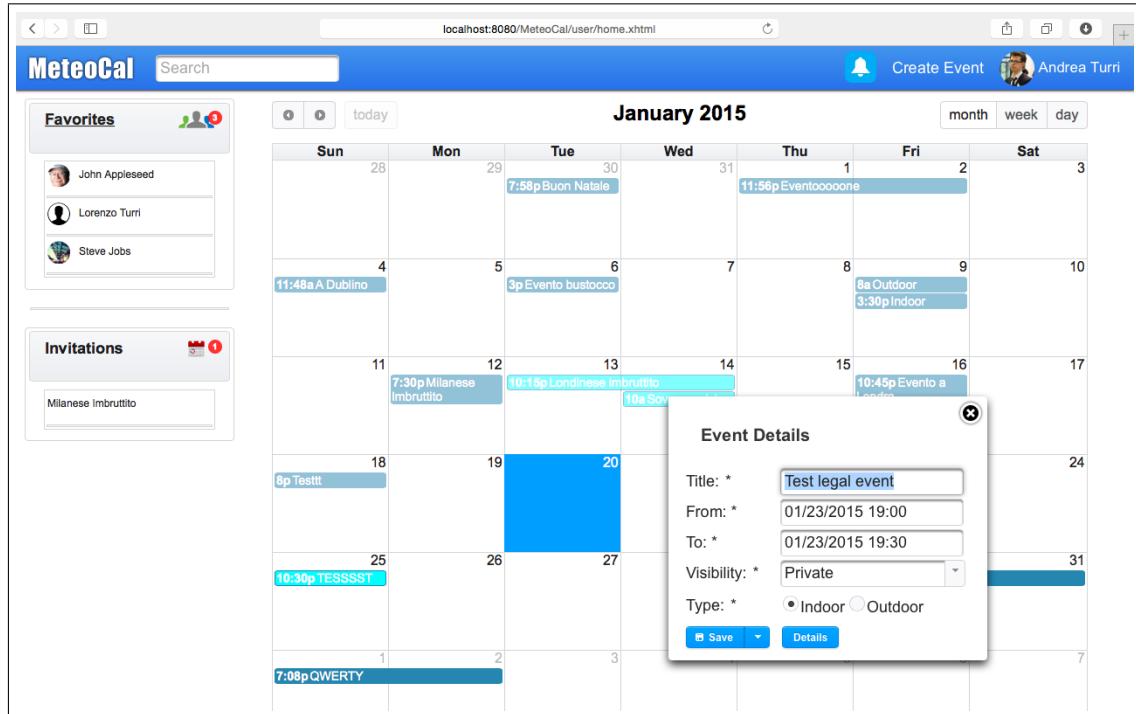


Figure 84: Quick edit

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

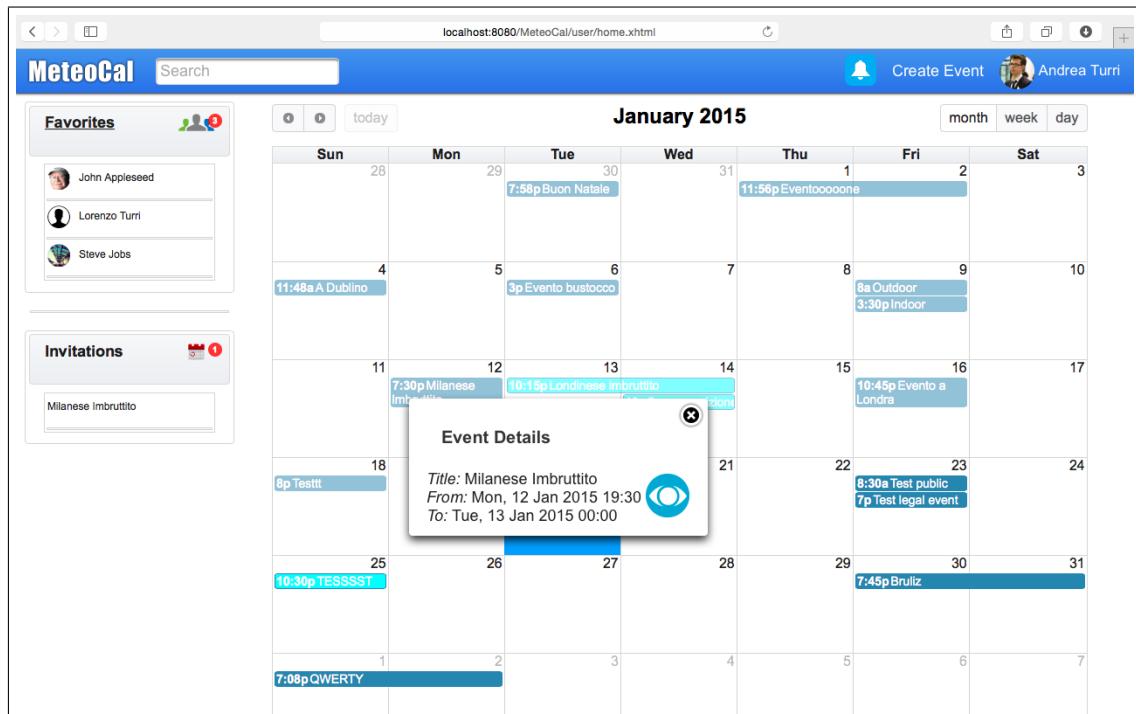


Figure 85: Quick edit not possible for past events

### 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):

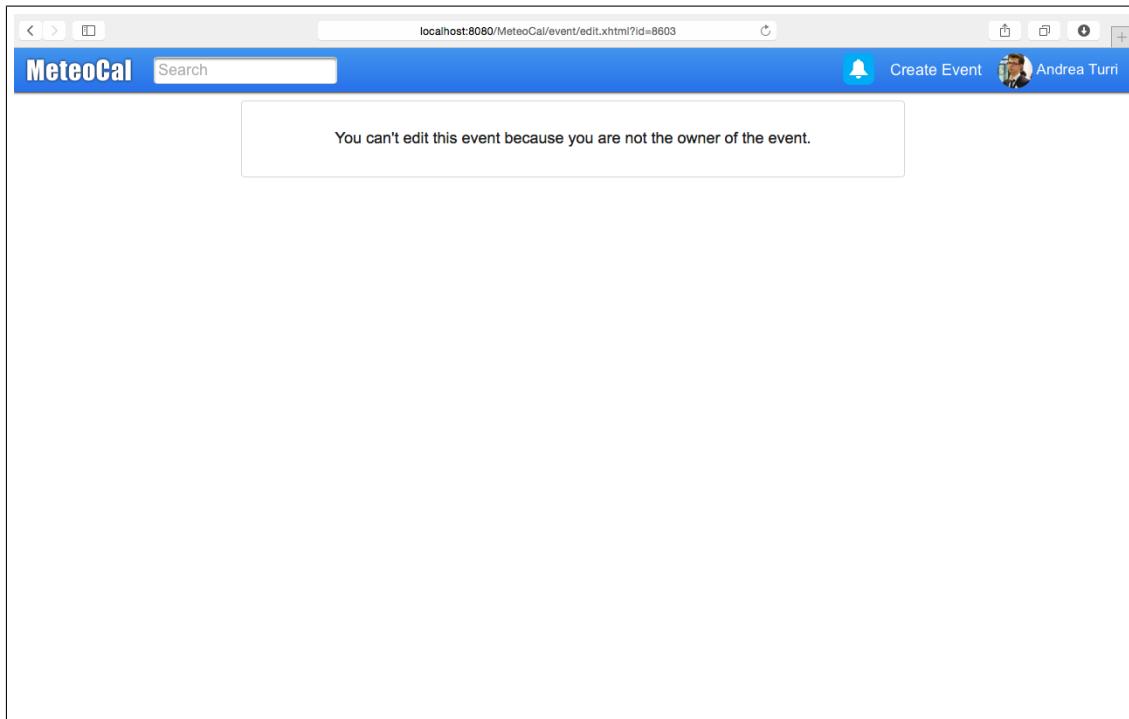


Figure 86: Update of events is not allowed for users that are not the creator

#### 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):

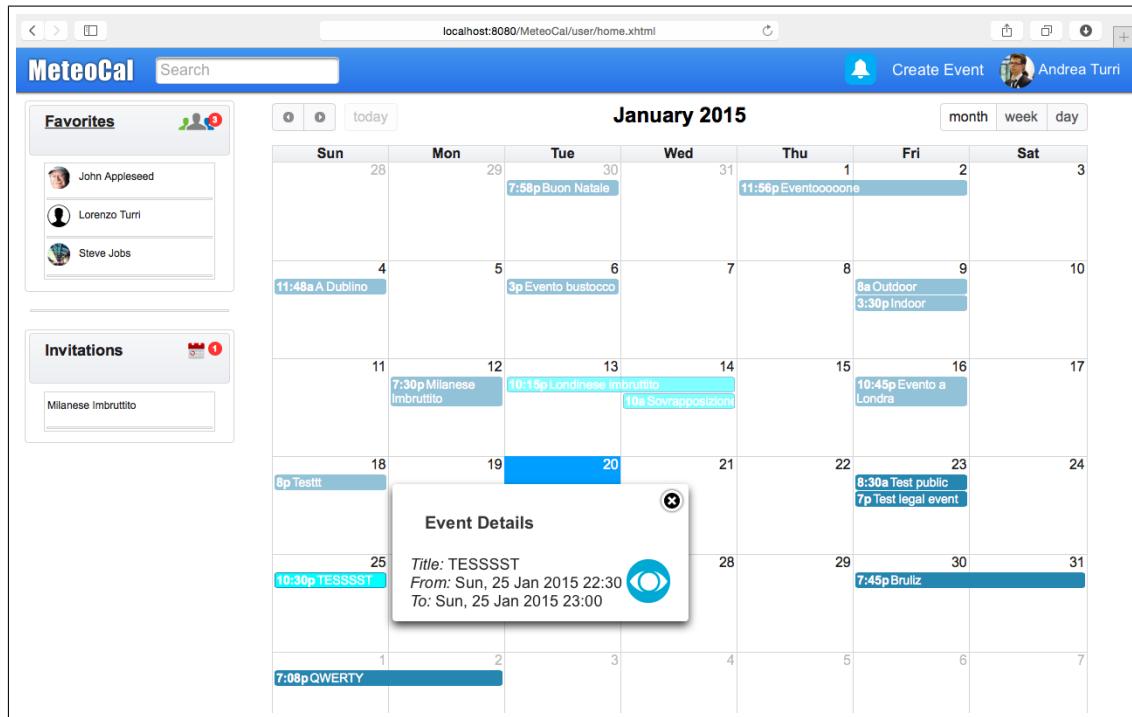


Figure 87: Quick edit not possible if the user is not creator

## 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:

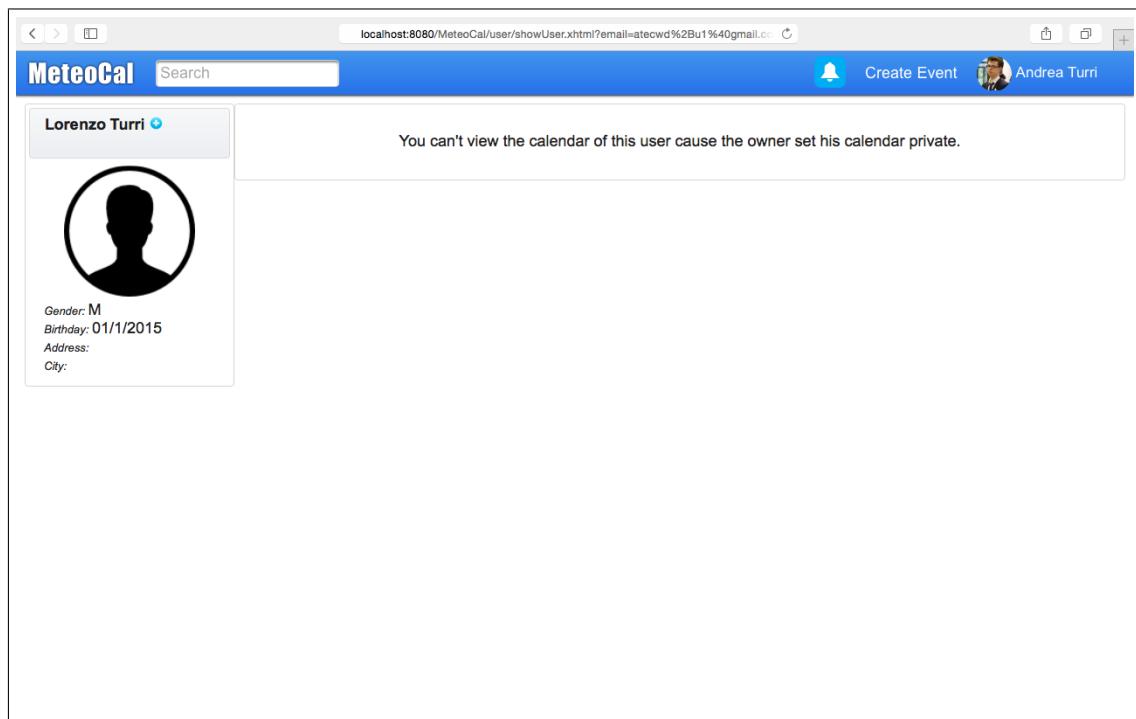


Figure 88: Private calendar

#### 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:

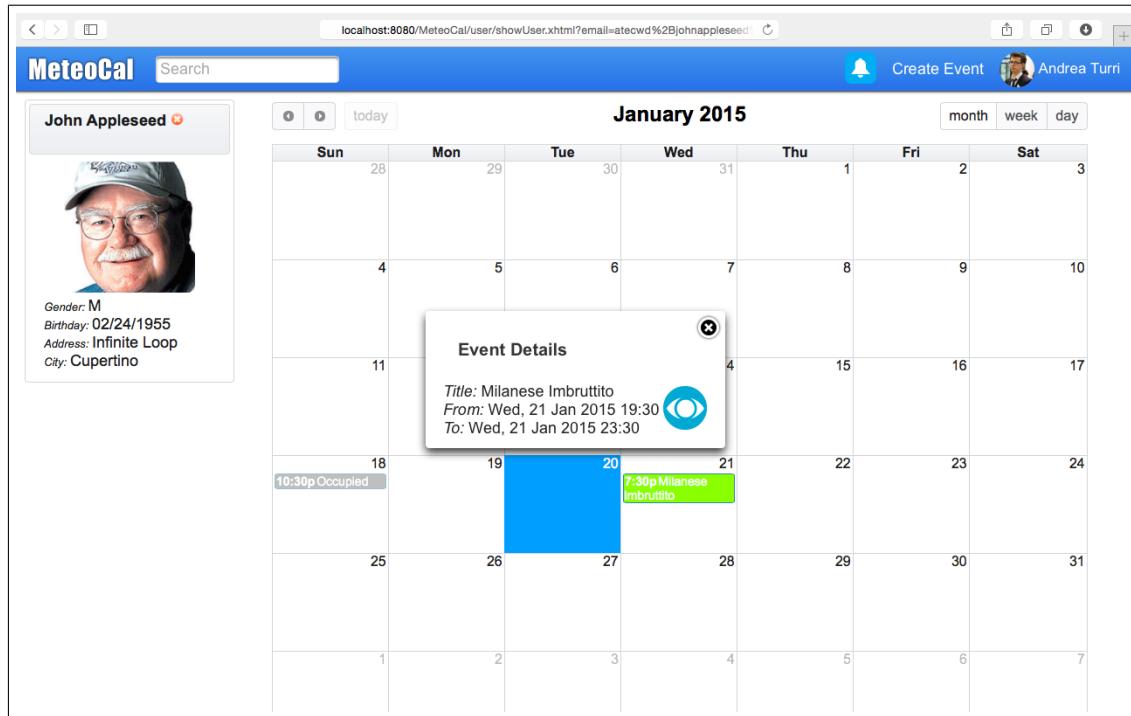


Figure 89: Public events in public calendar

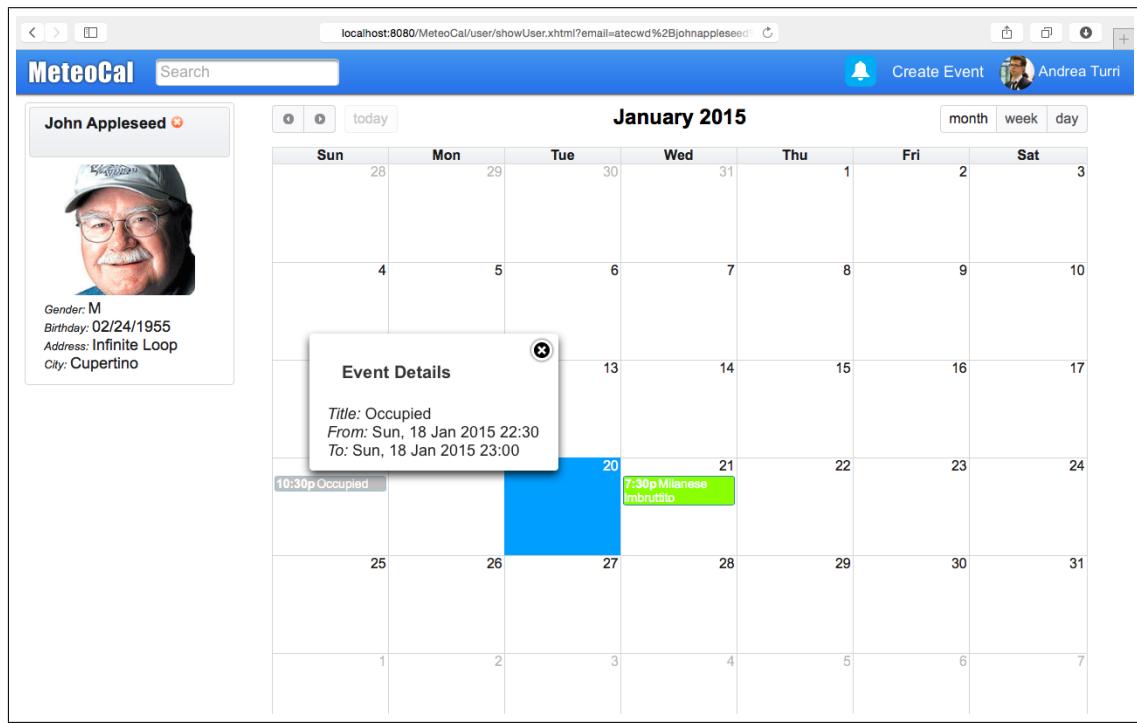


Figure 90: Private events in public calendar

## 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:

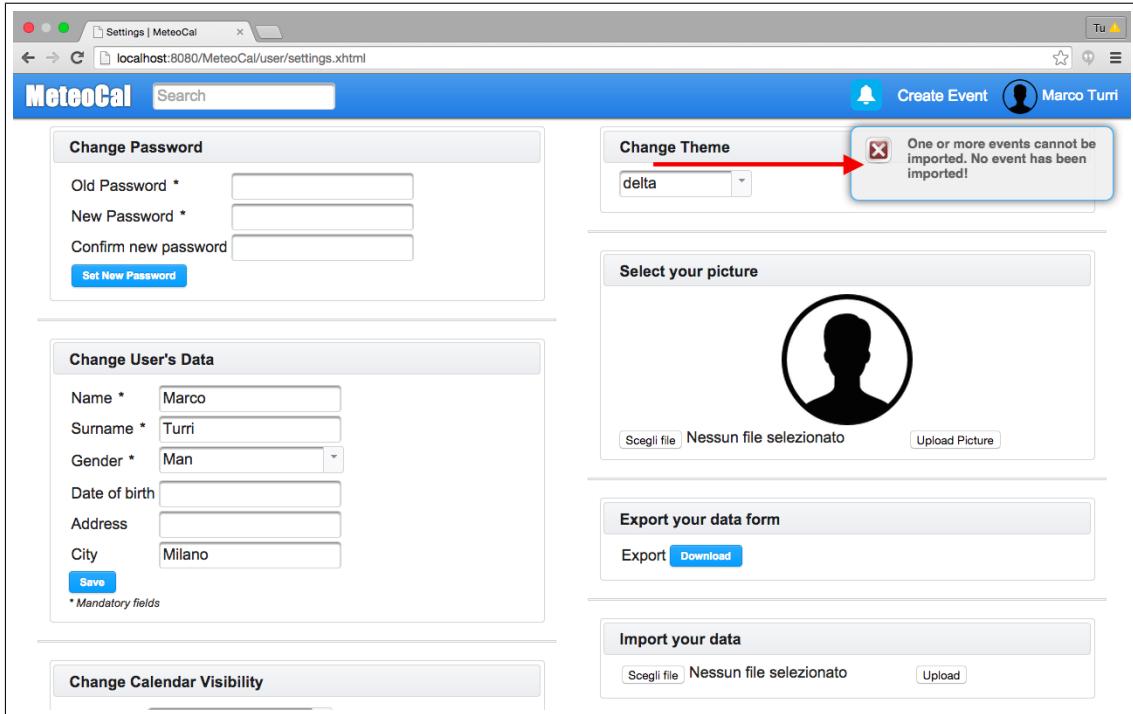


Figure 91: Tentative of import events with overlaps

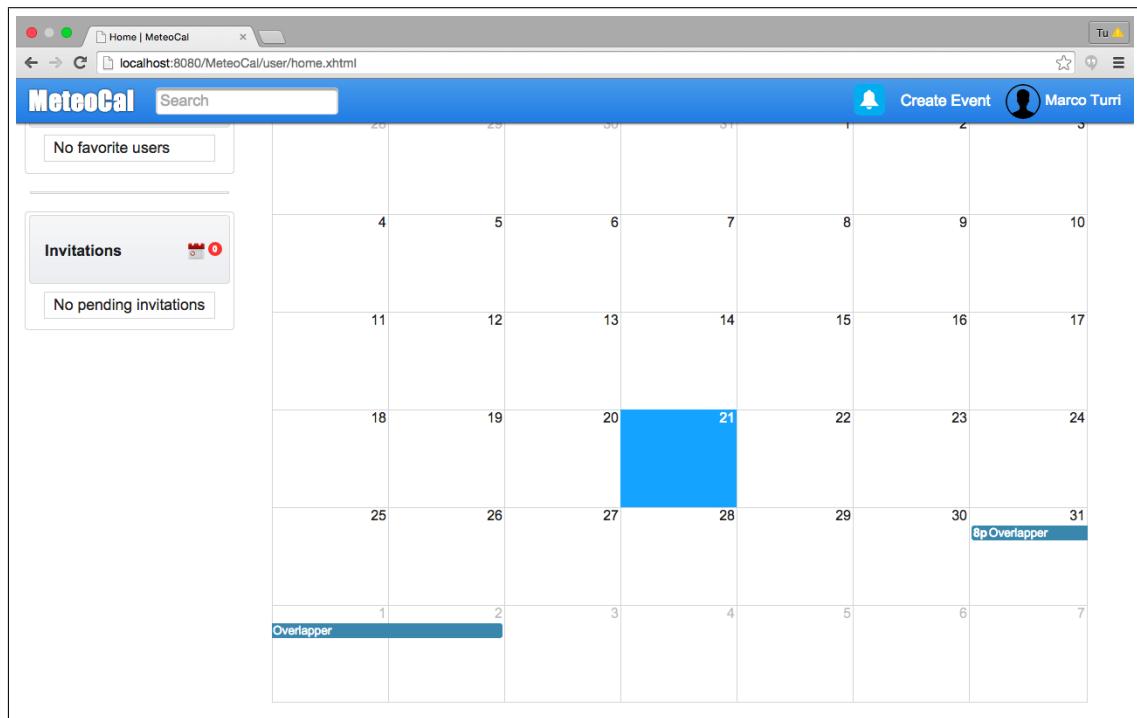


Figure 92: Calendar before trying to import

```
<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 93: 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:

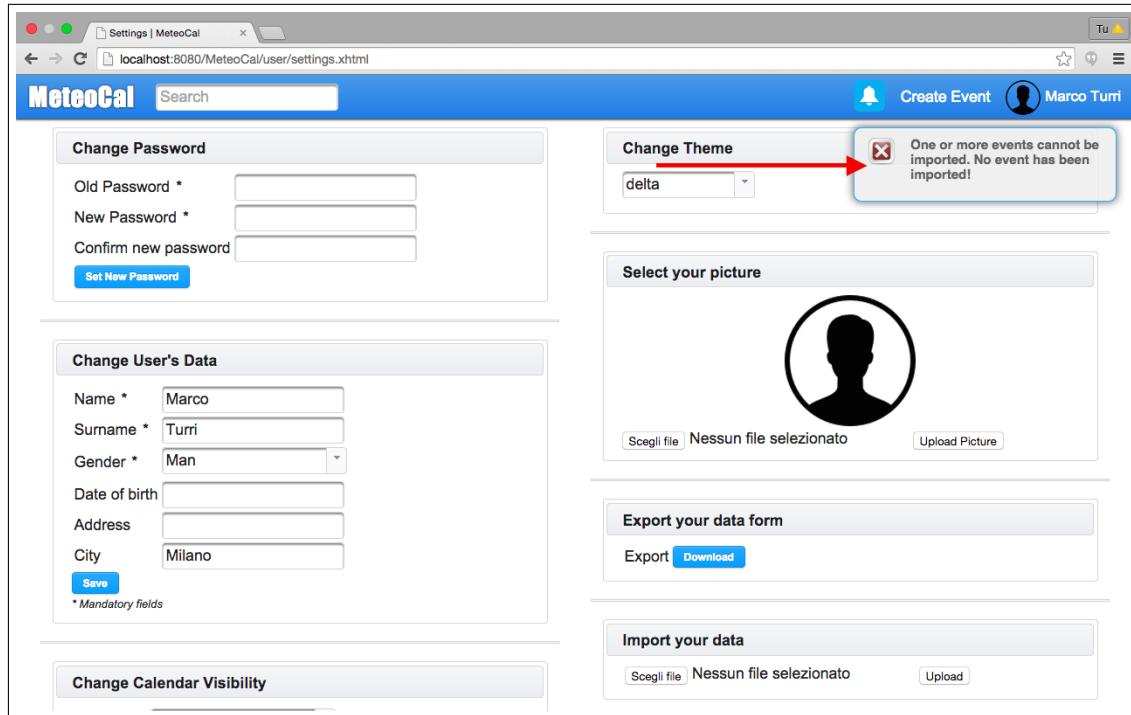


Figure 94: Tentative of import events with date errors

```
<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 95: 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:

The screenshot shows the MeteoCal settings interface on a web browser. The URL is `localhost:8080/MeteoCal/user/settings.xhtml`. The top right corner shows a user profile for "Marco Turri". On the left, there are several sections: "Change Password", "Change User's Data" (with fields for Name, Surname, Gender, Date of birth, Address, City, and a "Save" button), and "Change Calendar Visibility". On the right, there are sections for "Change Theme" (set to "delta"), "Select your picture" (with a placeholder silhouette and file selection buttons), "Export your data form" (with "Export" and "Download" buttons), and "Import your data" (with a file selection button showing "error.gif" and an "Upload" button). A red arrow points to the "Change Theme" section, highlighting a tooltip message: "One or more events cannot be imported. No event has been imported!"

Figure 96: Tentative of import events with wrong file format



Figure 97: 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:

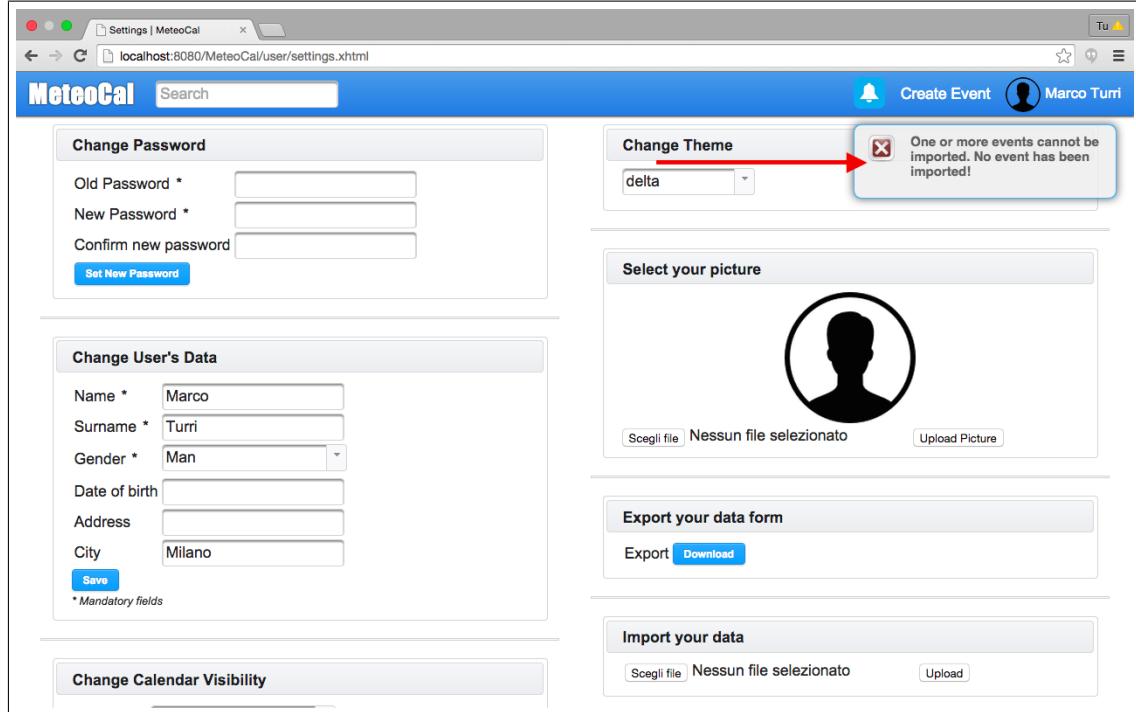


Figure 98: Tentative of import events with corrupted file

```
<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>
    <indoors>true</indoors>
  </event>
</events>
```

Figure 99: 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.

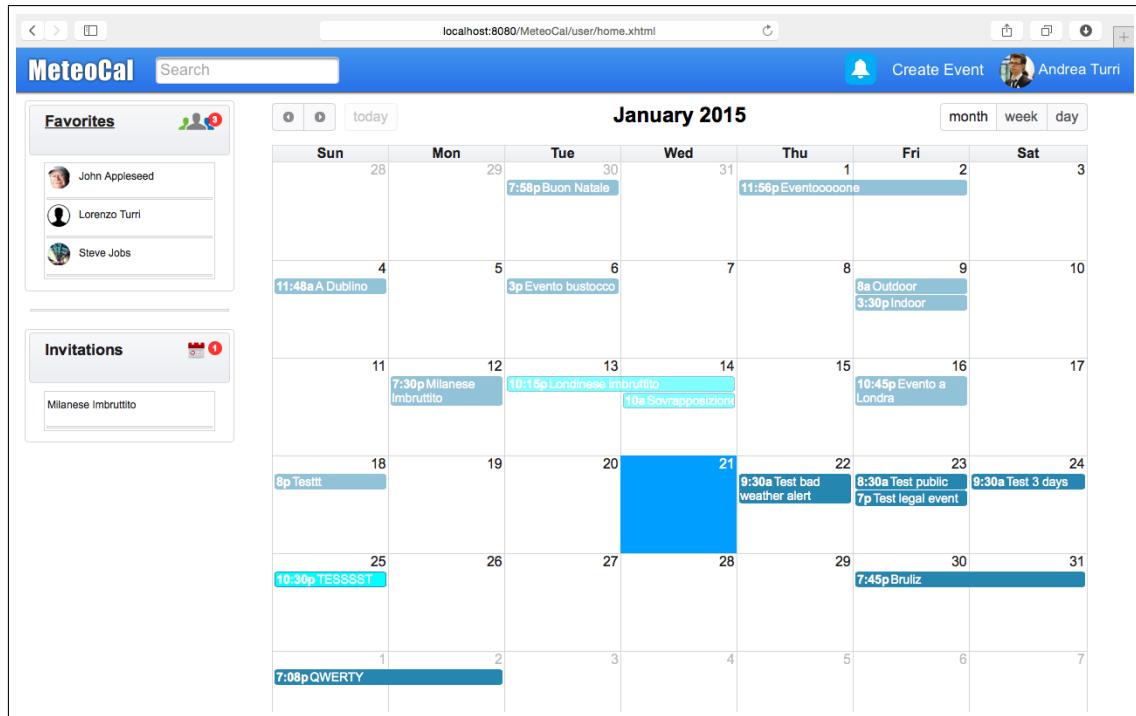


Figure 100: Calendar that will be imported

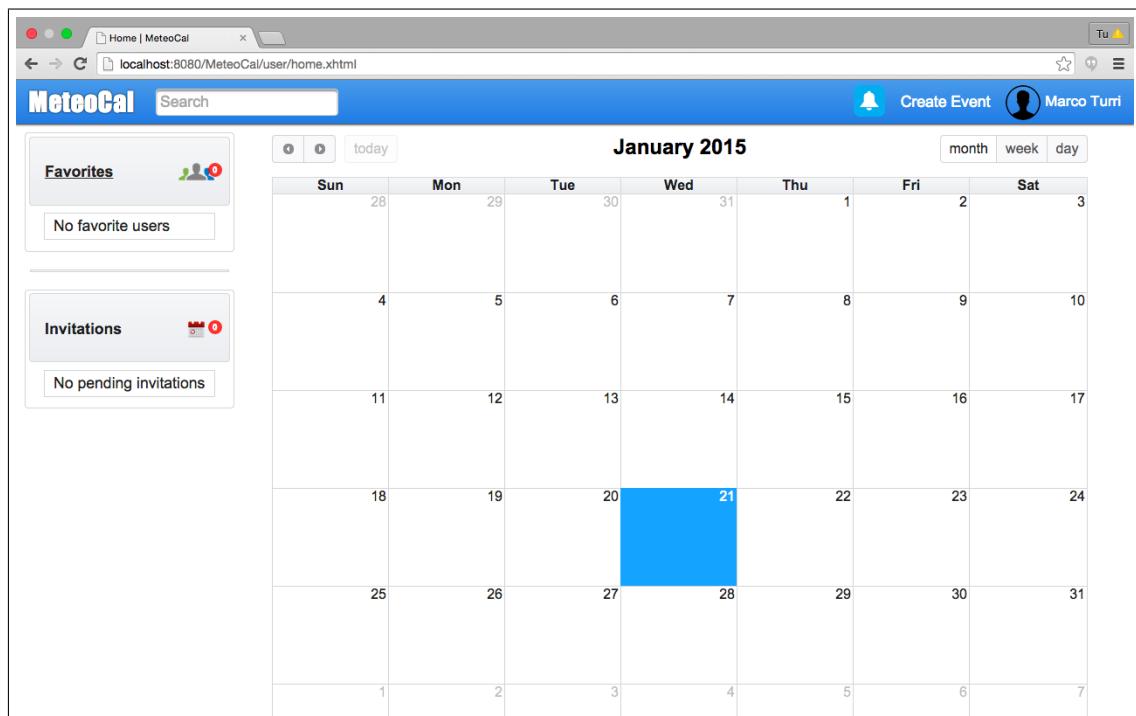


Figure 101: Calendar of current user, empty

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 dropdown is set to 'delta'. Below these sections is a placeholder for a profile picture with a 'Select your picture' button.

Figure 102: Events have been created successfully

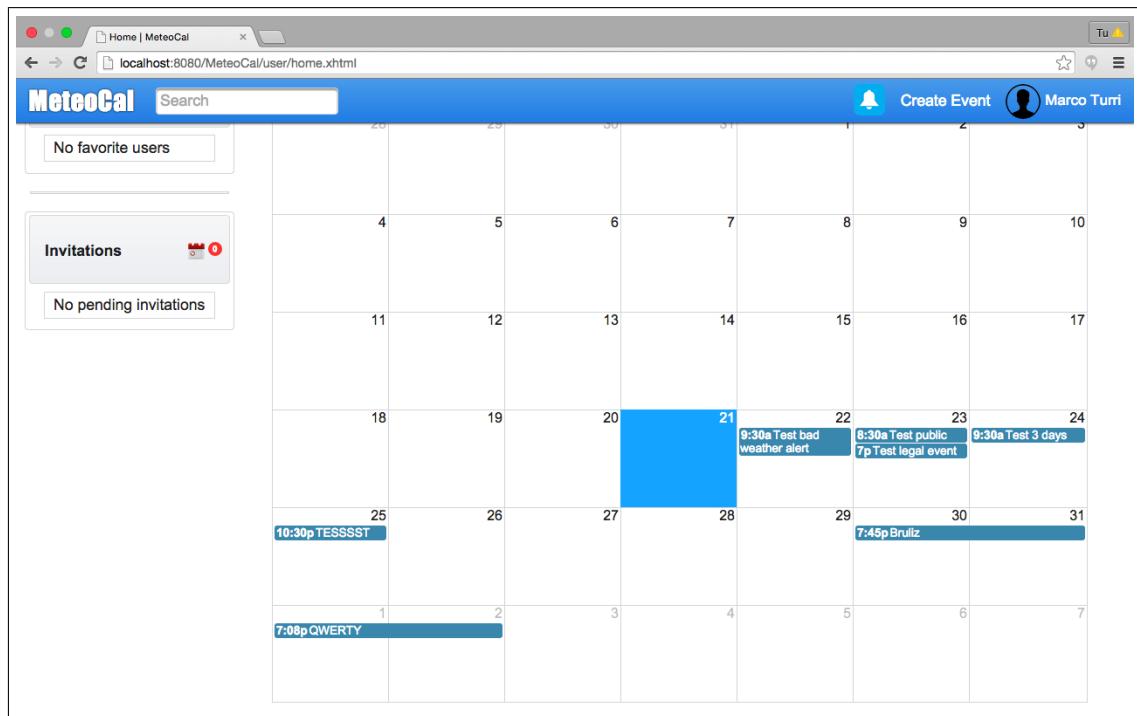


Figure 103: Calendar of current user after import

### 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 104: XML file exported

## 7.2 User's settings

### 7.2.1 Change image

In this test the user changes his image:

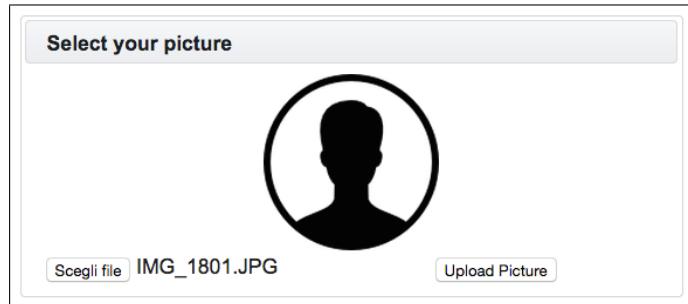


Figure 105: Selecting image

Figure 106: 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](http://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. A preview image of a user profile with glasses and a red jacket is shown below the dropdown. Buttons for 'Scegli file' (Select file), 'Nessun file selezionato' (No file selected), and 'Upload Picture' are visible.

Figure 107: Selecting theme

The screenshot shows the MeteoCal Settings page after the theme change. The 'Change Theme' section now displays a success message: 'Theme correctly changed'. The dropdown menu still shows the 'home' theme as selected. The preview image and upload controls remain the same as in Figure 107.

Figure 108: 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 109: Changing password

The screenshot shows the same 'Change Password' form as Figure 109, but the 'New Password' field is highlighted in red. A red error message box in the top right corner contains the text '☒ New password and confirm don't match'.

Figure 110: 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 111: Changing password

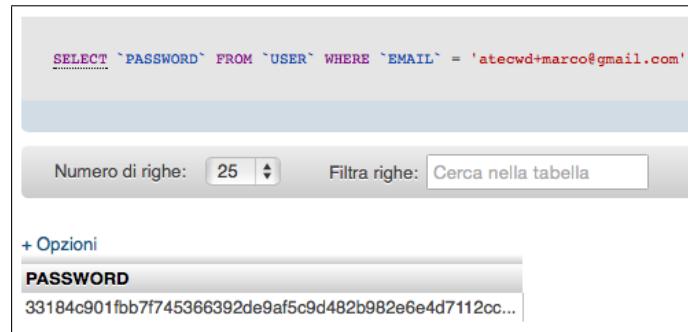
The screenshot shows the same 'Change Password' form as Figure 111, but with an additional red error message box at the bottom. The message box contains the text 'Insert the right password before change it' in red, preceded by a red checkmark icon.

Figure 112: 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 search filters: "Numero di righe:" set to 25, and a search bar "Filtro righe: Cerca nella tabella".

The main results panel shows a single row under the heading "+ Opzioni". The column "PASSWORD" contains the value: 33184c901fbb7f745366392de9af5c9d482b982e6e4d7112cc...

Figure 113: Database before changing password

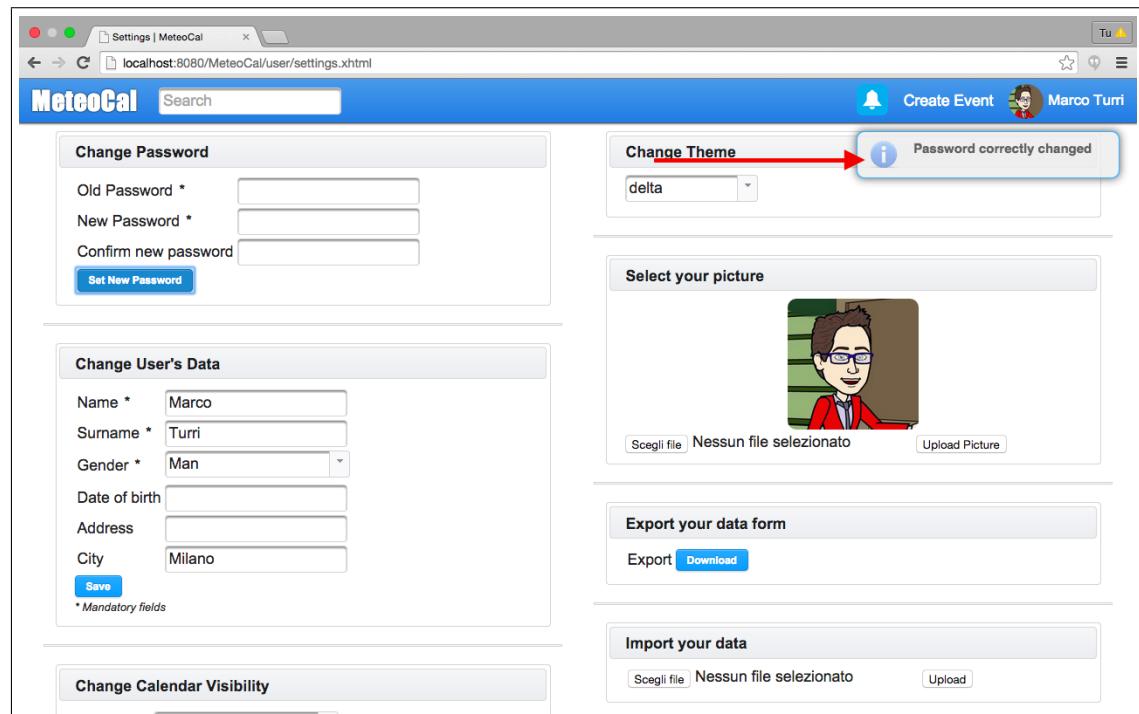


Figure 114: Success message

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

Numero di righe: 25 Filtra righe: Cerca nella tabella

+ Opzioni
PASSWORD
41a615318d08e67e2fecdef2882c0c2c48d98dc97ca5eec22f...
```

Figure 115: 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". At the bottom left is a blue "Save" button, and at the bottom center is a note: "\* Mandatory fields".

Figure 116: 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 117: Updated fields (address, date of birth)

The screenshot shows the MeteoCal user 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, plus a 'Save' button and a note about mandatory fields), 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 prominent blue success message bubble in the top right corner contains the text 'User's data correctly changed'. A red arrow points from the text 'User's data correctly changed' to the message bubble.

Figure 118: 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](http://localhost:8080/MeteoCal/user/settings.xhtml). The user, Marco Turri, is logged in. In the top right, there is a notification bell icon, a 'Create Event' button, and a profile picture of 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 Marco Turri, a 'Scegli file' button, a message 'Nessun file selezionato', and an 'Upload Picture' button), 'Export your data form' (with a 'Export' button and a 'Download' button), and 'Import your data' (with a 'Scegli file' button, a message 'Nessun file selezionato', and an 'Upload' button). The 'Change Calendar Visibility' section is highlighted, containing a dropdown menu for 'Visibility' set to 'Private', a 'Save' button, and a note '\* Mandatory fields'. A success message 'Calendar's visibility correctly changed' is displayed in a blue box above the picture section.

Figure 119: Set calendar private

The screenshot shows the MeteoCal User Profile page at [localhost:8080/MeteoCal/user/showUser.xhtml?email=ate cwd%2Bmarco%40gmai](http://localhost:8080/MeteoCal/user/showUser.xhtml?email=ate cwd%2Bmarco%40gmai). The user, Andrea Turri, is viewing the profile of Marco Turri. On the left, there is a sidebar with Marco Turri's profile picture, name, and basic information: Gender: M, Birthday: 01/12/2015, Address: Via Golgi, 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.' The top navigation bar includes the MeteoCal logo, a search bar, a 'Create Event' button, and a profile picture of Andrea Turri.

Figure 120: 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: 'Confirm new password' and 'Set New Password' button.

**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 success message box says: 'Calendar's visibility correctly changed'.

**Select your picture** section: A placeholder 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 121: Set calendar public

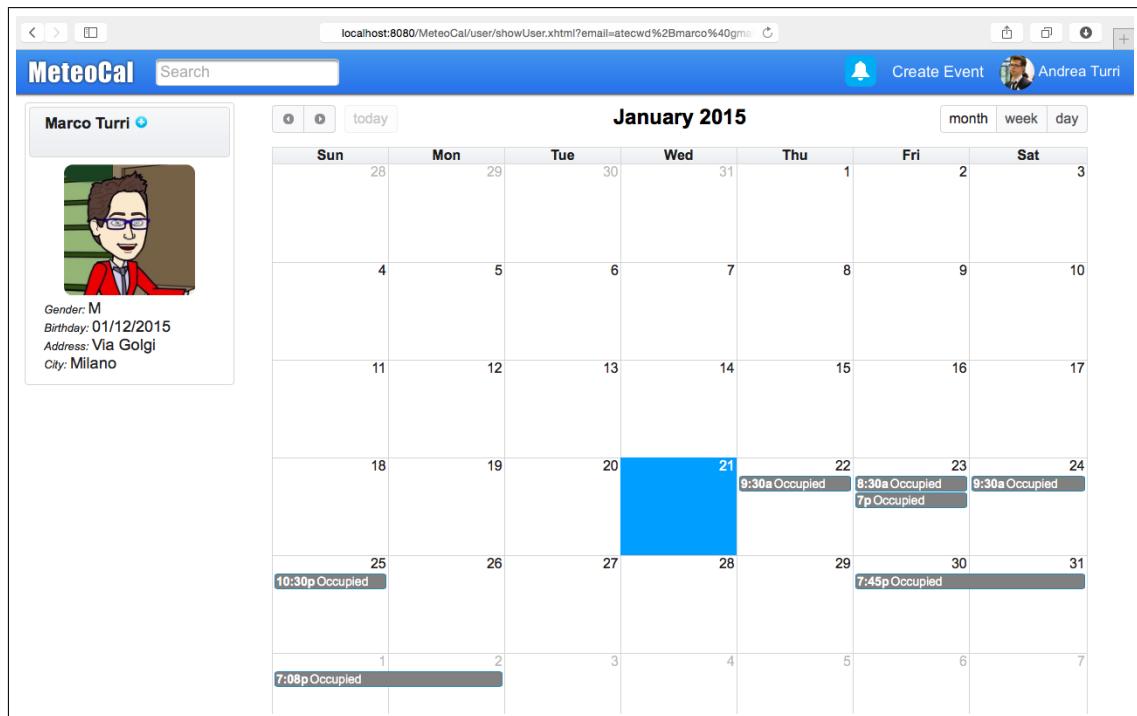


Figure 122: What other users see