

TEST CASES

MeteoCal



Daniele Marangoni, Matteo Montalcini,
Daniele Moro

23/01/2015

Contents

1	Introduction	2
2	Black Box Tests	3
2.1	Registration	3
2.2	Create Event	6
2.3	Add Invitation	8
2.4	Modify Profile	11
2.5	Modify Event	12
2.6	Delete Event	14
2.7	Accept the invitation for an event	15
2.8	Refuse an Invitation	16
2.9	Delete a participation to the event	17
2.10	Export Calendar	18
2.11	Import Calendar	19
2.12	Search for a user	21
2.13	Suggest Registration	24
2.14	Weather Condition	25

1. Introduction

In this document we explain which kinds of test we have performed on the application.

We have executed unit and integration tests on the classes that have the most critical methods and which we retain that can cause bigger problems: in particular, the class whose task is to manage the event creation, modification and deletion and the class whose goal is to create and send notifications to users.

Then we have tried to exploit the functionalities provided by the application, also testing situations that would cause errors. We reported below all these test cases, divided according to functionality.

2. Black Box Tests

2.1 Registration

Goal	Registration of a new user
Operating Environment	Registration page
Input	All requested data are inserted in a correct way and the email is not used by another user.
Expected Result	A new instance of user is created and an email is sent to the new user.
Result	OK

Goal	Registration of a new user by inserting an email already used
Operating Environment	Registration page
Input	All requested data are inserted in a correct way and the email is already used by another user.
Expected Result	The page will display an error message “Email is already in use” when the email is inserted. It is not possible to create a new user with that email.
Result	OK

Goal	Registration of a new user by inserting a mismatching password and confirm password
Operating Environment	Registration page
Input	All requested data are inserted in a correct way except for the password and the correct password, which are not the same.
Expected Result	The page will display an error message “Password should match with Confirm Password” when the button “Register” is clicked. The user is not created.
Result	OK

Goal	Registration of a new user by inserting a not valid phone number
Operating Environment	Registration page
Input	All requested data are inserted in a correct way, except for the phone number, which is not valid.
Expected Result	The page will display an error message “Invalid phone number” when the phone number is inserted. The user is not created.
Result	OK

Goal	Registration of a new user by inserting an empty location
Operating Environment	Registration page
Input	All requested data are inserted in a correct way, except for the location, which is empty.
Expected Result	The page will display an error message “Location empty” when the button “Register” is clicked. The user is not created.
Result	OK

Goal	Registration of a new user by not inserting all data
Operating Environment	Registration page
Input	Not all requested data are inserted, but only some of them.
Expected Result	The page will display an error message “May not be empty” when the button “Register” is clicked for the fields which are not fulfilled. The user is not created.
Result	OK

2.2 Create Event

Goal	Creation of a new event by inserting all data
Operating Environment	Create Event page
Input	All required data are inserted in a correct way.
Expected Result	The event is created and the user is redirected to the Add Invitation page.
Result	OK

Goal	Creation of a new event by inserting all data in a correct way except for the time start and the time end, which are not valid
Operating Environment	Create Event page
Input	All required data are inserted in a correct way, except for the time start and the time end: time end is before time start / the inserted dates would cause an overlap with other already existent user. events.
Expected Result	The event is not created and the page displays the error message: "You may have some overlapping event, or the date of start is after the end".
Result	OK

Goal	Creation of a new event by inserting all data in a correct way except for the location, which is not valid
Operating Environment	Create Event page
Input	All required data are inserted in a correct way, except for the location: it is not valid because it can't be recognized by google place API.
Expected Result	the event is not created and the page displays the error message: "Location invalid".
Result	OK

Goal	Creation of a new event by inserting all data in a correct way except for the location, which is empty
Operating Environment	Create Event page
Input	All required data are inserted in a correct way, except for the location: it is empty.
Expected Result	The event is not created and the page displays the error message: "Location empty".
Result	OK

Goal	Creation of a new event by inserting all data in a correct way except the time start or the time end: one of the two is empty
Operating Environment	Create Event page
Input	All required data are inserted in a correct way, except for the dates: time start or the time end are empty.
Expected Result	The event is not created and the page displays the error message: "Time End May not be empty" / "Time Start May not be empty".
Result	OK

Goal	Creation of a new event by inserting all data in a correct way except the name, which is empty
Operating Environment	Create Event page
Input	all required data are inserted in a correct way, except for the name, which is empty.
Expected Result	the event is not created and the page displays the error message: "Name may not be empty".
Result	OK

2.3 Add Invitation

Goal	Add a new invitation for an event by inserting user's email
Operating Environment	Add Invitation page
Input	The email of an already registered user is inserted in the exact input place.
Expected Result	The selected user receives a new invite notification, an email (which tells him about the new invitation) and his name, surname and email appear in the invited people table.
Result	OK

Goal	Add a new invitation for an event by inserting an email which does not correspond to any email of a user
Operating Environment	Add Invitation page
Input	A wrong email is inserted in the input place: no user has that email.
Expected Result	The invitation is not send to the user; the page displays an error message "User inexistent".
Result	OK

Goal	Add a new invitation for an event by inserting an invalid email
Operating Environment	Add Invitation page
Input	A not valid email is inserted in the input place.
Expected Result	No invitation is sent: the page displays an error message "Invalid email".
Result	OK

Goal	Add a new invitation for an event by inserting name and surname of the user to be invited, click button “Search” and then click the button “Add”. The user is not already invited to the event
Operating Environment	Add Invitation page
Input	The name and surname of a user not already invited are inserted in the input form.
Expected Result	The selected user receives a new invite notification, an email (which tells him about the new invitation) and his name, surname and email appear in the invited people table.
Result	OK

Goal	Add a new invitation for an event by inserting name and surname of the user to be invited and click button “Search”, but no user has that features
Operating Environment	Add Invitation page
Input	Name and surname are inserted in the input form, but they do not correspond to any user.
Expected Result	No invitation is sent: the page displays an information message “No results”.
Result	OK

Goal	Add a new invitation for an event by inserting name or surname (but not both) of the user to be invited and click button search
Operating Environment	Add Invitation page
Input	Only the name or the surname of the user to be invited are inserted.
Expected Result	No invitation is sent: the page displays an error message “May not be empty”.
Result	OK

Goal	Add a new invitation for an event by selecting /inserting the email of a user already invited
Operating Environment	Add Invitation page
Input	The email of an already invited user is inserted, or an already invited user is selected to be invited.
Expected Result	No invitation is sent: the page displays an error message "The user has already been invited".
Result	OK

Goal	Add a new invitation for an event by inserting own email
Operating Environment	Add Invitation page
Input	The organizer's email is inserted in the input form.
Expected Result	No invitation is sent: the page displays an error message "The organizer can't be invited.
Result	OK

2.4 Modify Profile

Goal	Modify own profile by inserting all data in a correct way
Operating Environment	My Profile page
Input	All the fields are fulfilled in the correct way and password and confirm password coincide.
Expected Result	After the click on button “Submit”, the data about user’s profile are updated and the user is redirected to his profile page, where he can verify the modify.
Result	OK

Goal	Modify own profile by inserting data, but not fulfilling all the fields or inserting some not valid data
Operating Environment	My Profile page
Input	Some of the fields are fulfilled correctly, some are empty, some presents not valid data.
Expected Result	After the click on button “Submit”, the page displays that an error occurs about a fields by highlighting it in red. The update is not performed.
Result	OK

2.5 Modify Event

Goal	Modify a created event by inserting all data in a correct way
Operating Environment	Modify Event page
Input	All the fields are fulfilled in a correct way (except the description, which can be also empty).
Expected Result	After the click on button “Modify Event”, the event data are updated and the user is redirected to the page which displays the list of his events. If the time start or the time end are modified, also a notification is sent to all the other users who are going to participate to the event or has not already answered to the invitation. In case they have overlaps with other own events, they are asked to re-accept the participation.
Result	OK

Goal	Modify a created event by inserting all data in a correct way, except for the time start and the time end
Operating Environment	Modify Event page
Input	all the fields are fulfilled in a correct way , except for the time start and time end, which causes overlaps with other organizer events / which are not valid, because time end is earlier than time start.
Expected Result	After the click on button “Modify Event”, the page displays an error message “You may have some overlapping event, or the date of start is after the end”. No update are performed on the event data.
Result	OK

Goal	Modify a created event by inserting all data in a correct way, except for the location, which is empty.
Operating Environment	Modify Event page
Input	All the fields are fulfilled in a correct way except for the location, which is empty.
Expected Result	After the click on button “Modify Event”, the page displays an error message “Location empty”. No update is performed on event data.
Result	OK

Goal	Modify a created event by inserting all data in a correct way, except for the location, which is not valid.
Operating Environment	Modify Event page
Input	All the fields are fulfilled in a correct way except for the location, which is not valid because it can't be recognized by google place API.
Expected Result	After the click on button “Modify Event”, the page displays an error message “Location invalid”. No update is performed on event data.
Result	OK

Goal	Modify a created event by inserting some data, but not all the required ones.
Operating Environment	Modify Event page
Input	Some fields are fulfilled correctly, but some other are empty.
Expected Result	After the click on button “Modify Event”, the page highlights in red the fields which can't be empty, also re-inserting the previous values of the fields. No update is performed.
Result	OK

2.6 Delete Event

Goal	Delete a created Event
Operating Environment	Modify Event page
Input	The button “Delete Event” is clicked.
Expected Result	After the click on button “Delete Event”, the event is deleted: in fact, the user is redirected to the page in which he can find the list of his created events and the deleted event no longer appear in it. A delete notification is sent to all the users who has accepted the participation for that event or has not already answered to the invitation. Also an email is sent to them.
Result	OK

2.7 Accept the invitation for an event

Goal	Accept an invitation for an event which doesn't cause any overlap.
Operating Environment	Event Information page
Input	The button "Accept Invitation" is clicked and the event doesn't cause any overlap.
Expected Result	After the click on button "Accept Invitation", the user is added among the participants. Going to the home page, the event can be seen on the calendar.
Result	OK

Goal	Accept an invitation for an event which would cause an overlap
Operating Environment	Event Information page
Input	The button "Accept Invitation" is clicked and the event would cause overlap.
Expected Result	After the click on button "Accept Invitation", the page displays an error message "You may have an overlapping event, you have to delete your participation to that event"
Result	OK

2.8 Refuse an Invitation

Goal	Refuse an invitation for an event.
Operating Environment	Event Information page
Input	The button “Refuse Invitation” is clicked.
Expected Result	After the click on button “Refuse Invitation”, the page displays a message which confirms the refusing of the invitation. Now the user can’t accept this event.
Result	OK

2.9 Delete a participation to the event

Goal	Delete a participation to an event to which the user has accepted to participate before.
Operating Environment	Event Information page
Input	The user has already accepted to participate to the event and the button “DeleteParticipation” is clicked.
Expected Result	After the click on button “Delete Participation”, the page displays a message which confirms the refusing of the invitation. Now the user can’t accept this event and is removed from the event participants.
Result	OK

2.10 Export Calendar

Goal	Export own calendar, containing some events
Operating Environment	Export Calendar page
Input	The button “Download Calendar” is clicked
Expected Result	The download of the calendar will start in a few moment. At the end of the download, the xml file downloaded contains all the data of the created and accepted events.
Result	OK

Goal	Export own calendar, containing no event
Operating Environment	Export Calendar page
Input	The button “Download Calendar” is clicked
Expected Result	The download of the calendar will start in a few moment. At the end of the download, the xml file doesn't contain any event.
Result	OK

2.11 Import Calendar

Goal	Import of an exported calendar
Operating Environment	Import Calendar page
Input	The user clicks on the button “Choose” and selects the correct file, then he clicks on the button “Upload”.
Expected Result	The application shows an information message: “Successful calendar.xml is uploaded”. All the events listed in the xml file imported are created and visible in the calendar
Result	OK

Goal	Import of an empty exported calendar
Operating Environment	Import Calendar page
Input	The user clicks on the button “Choose” and selects the correct file, then he clicks on the button “Upload”.
Expected Result	The application shows an information message: “Successful calendar.xml is uploaded”. No new event is added to user calendar.
Result	OK

Goal	Import of an exported calendar, with overlapping events
Operating Environment	Import Calendar page
Input	The user clicks on the button “Choose” and selects the correct file, then he clicks on the button “Upload”.
Expected Result	The application shows an error message: “Error calendar.xml isn’t uploaded. Error: this operation would cause overlap with other events”. No new event is added to user calendar and the import fails
Result	OK

Goal	Import of a non valid calendar
Operating Environment	Import Calendar page
Input	The user clicks on the botton “Choose” and selects the file, then he clicks on the button “Upload”, but the file is not valid for the import: there are missing data, or the xml structure is not correct
Expected Result	The application shows an error message: “Error calendar.xml isn’t uploaded. Error: the calendar has some missing fields for some events, or his structure”. No new event is added to user calendar and the import fails
Result	OK

2.12 Search for a user

Goal	Search for a user by inserting user's email
Operating Environment	Search page
Input	The email of an already registered user is inserted in the exact input place.
Expected Result	The applications shows the selected user's profile page.
Result	OK

Goal	Search for a user by inserting an email which does not correspond to any email of a user
Operating Environment	Search page
Input	A wrong email is inserted in the input place: no user has that email.
Expected Result	The applications shows an error message: "Mail inexistent".
Result	OK

Goal	Search for a user by inserting an invalid email
Operating Environment	Search page
Input	A not valid email is inserted in the input place.
Expected Result	The applications shows an error message: "Invalid email".
Result	OK

Goal	Search for a user by inserting name and surname of the user and then click the button “Search”
Operating Environment	Search page
Input	The name and surname of a user are inserted in the input form.
Expected Result	The applications shows the selected user’s profile page.
Result	OK

Goal	Search for a user by inserting name and surname of the user to be searched and click button “Search”, but no user has that features
Operating Environment	Search page
Input	Name and surname are inserted in the input form, but they do not correspond to any user.
Expected Result	The applications shows an information message: “No results”.
Result	OK

Goal	Search for a user by inserting name or surname (but not both) of the user to be searched and click button “Search”
Operating Environment	Search page
Input	Only the name or the surname of the user to be searched are inserted.
Expected Result	The applications shows an information message: “May not be empty”.
Result	OK

Goal	Search for a user by inserting own email
Operating Environment	Search page
Input	The own email is inserted in the input form.
Expected Result	The applications shows the own profile page as seen by another user.
Result	OK

2.13 Suggest Registration

Goal	Suggest registration to the application by inserting a valid email which does not correspond to any email of a user
Operating Environment	Suggest Registration page
Input	An email which does not correspond to any email of a user is inserted in the input place.
Expected Result	The application sends an email suggesting the registration.
Result	OK

Goal	Suggest registration to the application by inserting a valid email which correspond to an email of a user
Operating Environment	Suggest Registration page
Input	An email which correspond to an email of a user is inserted in the input place.
Expected Result	The applications shows an error message: “The inserted email is already registered”.
Result	OK

Goal	Suggest registration to the application by inserting an invalid email
Operating Environment	Suggest Registration page
Input	An invalid email is inserted in the input place.
Expected Result	The applications shows an error message: “invalid email”.
Result	OK

2.14 Weather Condition

Goal	Update event weather forecast after the event location update
Operating Environment	Modify Event page
Input	A new location is setted for the event.
Expected Result	The application updates the event information and also weather forecast are modified. The new weather forecasts are visible from the calendar, clicking on the event.
Result	OK

Goal	Automatically weather forecasts update every 12 hours
Operating Environment	Internal processing
Input	Weather forecasts are requested by MeteoCal to an external meteo service in order to update the weather forecasts for the event.
Expected Result	The weather forecasts of the event are updated. In case of a change (e.g. from rain to sun), the organizer receives an email which notifies that change.
Result	OK

Goal	Automatically comparison between accepted weather condition and weather forecasts of an event every three days before the event start
Operating Environment	Internal processing
Input	Accepted weather conditions and weather forecasts of the event
Expected Result	The system compares the accepted weather conditions and the weather forecast of each outdoor event three days before the event start, and notifies the organizer in case of bad weather conditions for the event (e.g. the weather forecasts are not aligned with the desired ones), also suggesting him a new date for the event.
Result	OK

Goal	Automatically comparison between accepted weather condition and weather forecasts of an event every one day before the event start
Operating Environment	Internal processing
Input	Accepted weather conditions and weather forecasts of the event
Expected Result	The system compares the accepted weather conditions and the weather forecast of each outdoor event one day before the event start, and notifies all the users who have accepted the invitation for the event in case of bad weather conditions (e.g. the weather forecasts are not aligned with the desired ones) and sends them an email.
Result	OK