

ACCEPTANCE TESTING

MeteoCal



Daniele Marangoni, Matteo Montalcini,
Daniele Moro

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1. Introduction

In order to start testing the application, we first installed the platform, following the instructions of the installation manual.

Following them step by step, we found some problems:

- the SQL instruction to create the new database and the instructions to create a new user and grant him privileges are incomplete (are cut on the left side).
- Following the steps for creating the Connection Pool, there are some unspecified mandatory fields among additional properties (e.g., URL);
- The realm name is not specified (it would be `jdbcRealmRegistration`);
- The groupname column in `jdbcRealmRegistration` has name “GROUP-NAME” and not “USERS”;

After having successfully completed the installation, we started the test phase. First, we read the RASD document, trying to understand how the application would work and focusing our attention on the details of the various functionalities.

Since we have noticed that in the RASD document some of the most important features are not specified (sometimes not mentioned at all), we decide to split out testing document in two parts:

- Test of the functionalities explained among scenarios and use cases of the RASD, not including particular cases that are not specified;
- Test of the previous functionalities, but also including particular cases, and also verifying some of the functionalities not specified in the RASD document. In this part we have also mentioned all the unspecified features.

2. Test - Part 1

Goal	Registration of a new user
Operating Environment	MeteoCal page and not logged in.
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.
Obtained Result	Same as expected.
Test Passed	YES.

Goal	Registration of a new user by inserting an email already used
Operating Environment	MeteoCal page and not logged in
Input	All requested data are inserted in a correct way but the email is already used by another user.
Expected Result	No new user is created.
Obtained Result	Same as expected
Test Passed	YES.
Suggestion	The functionality is correct, but nothing happens to the page (e.g., no error message, no page refresh...).

Goal	Registration of a new user not inserting all the requested data
Operating Environment	MeteoCal page and not logged in
Input	Not all requested data are inserted
Expected Result	No user is created.
Obtained Result	Same as expected.
Test Passed	YES.
Suggestion	The functionality is correct, but nothing happens to the page (e.g., no error message, no page refresh...).

Goal	Creation of a new event by inserting all data
Operating Environment	Add a new event page
Input	All required data are inserted in a correct way.
Expected Result	The system creates the event.
Obtained Result	Same as expected and the user is redirected to the Invite friends to an event page.
Test Passed	YES.

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	Add a new 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.
Expected Result	The system doesn't create the event.
Obtained Result	The event is not created and the application is redirected to a error page with the message: "OOOOOPS, SOMETHING WENT WRONG!".
Test Passed	YES.
Suggestion	More detailed error message.

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 receive an invite notification, a confirmation frame is displayed and an email is sent to him.
Obtained Result	The selected user receives a new invite notification, no frame or message displayed, no email is sent.
Test Passed	NO: no email is sent (it is a mandatory functionality), no error message is displayed.

Goal	Delete a created Event
Operating Environment	Event name page
Input	The "Delete Event" button is clicked.
Expected Result	The event is deleted.
Obtained Result	Same as expected.
Test Passed	YES.
Suggestion	A notification to all the participants is required for the usability of the application.

Goal	Retrieve password
Operating Environment	MeteoCal page and not logged in
Input	The user clicks on the "LOST YOUR PASSWORD?" button and then inserts his own email.
Expected Result	An email is sent to him with a new password with which he can perform the log in.
Obtained Result	Same as expected.
Test Passed	YES.

Goal	Modify event information
Operating Environment	Events page
Input	The user clicks on the “Details” button of a personal event and then he modifies some data.
Expected Result	The modified event data are updated.
Obtained Result	Same as expected.
Test Passed	YES.

Goal	Search for a user
Operating Environment	Find your friends page
Input	The user inserts an email of a registered user and clicks on “Search your friend!” button.
Expected Result	The inserted user’s calendar page is displayed with his own created events and others for which he has received an invitation (accepted or not yet accepted).
Obtained Result	Same as expected.
Test Passed	YES.
Suggestion	Maybe a distinction between accepted and not already accepted events would increase the usability.

Goal	Accept an invitation
Operating Environment	Notifications page
Input	The user clicks on “Accept” button.
Expected Result	The system adds the event to the user’s calendar.
Obtained Result	Same as expected.
Test Passed	YES.

Goal	Modify an event created by another user
Operating Environment	Events page
Input	The user clicks on “Details” button and tries to modify some of the event data.
Expected Result	The application displays an error saying “You are not the owner of the event, only who creates events can update/edit/delete them!”.
Obtained Result	The user can modify the event data in the input forms, but after having clicked the “Ok” button, no error message is displayed by the application and no data are updated.
Test Passed	PARTIALLY: the update is not performed, but no message is displayed.

Goal	Invite a friend to join the application
Operating Environment	Invite a friend to join MeteoCal page
Input	The user inserts an email and clicks on “INVITE FRIEND” button.
Expected Result	An email is sent to the specified email and a confirm message is displayed.
Obtained Result	The email is sent, but no confirm message is displayed.
Test Passed	PARTIALLY.
Suggestion	Nothing avoid to send an invite to join the application to an already registered user (including himself). This situation could not be permitted, because it is useless.

Goal	Show information of a user's event
Operating Environment	Find your friends page
Input	The searched user's email is inserted in the input form and the "SEARCH YOUR FRIEND!" button is clicked, then the event "Details" button is clicked and the event information is shown.
Expected Result	The event information is shown.
Obtained Result	Same as expected.
Test Passed	YES.
Suggestion	Use output labels instead of input ones with the placeholder.

Goal	Export calendar
Operating Environment	My profile page
Input	The "Export your calendar" button is clicked.
Expected Result	The download starts.
Obtained Result	Same as expected.
Test Passed	PARTIALLY: only the created events are exported, but a user's calendar is not composed only by that events, but also by user's accepted events. Also these last ones have to be exported.

3. Test - Part 2

For this second part of the test, we have decided to make some assumptions on the expected result of the specific functionality under test, starting from the project description document provided by professors.

As we said before, some important features are not specified:

- Nothing is specified about the visibility of a calendar (what means that a calendar is public/private and the effects of the chosen visibility in the application) and of an event. Using the application, we have realized that the calendar visibility influences the search of a user: in particular, if the user's calendar is private, the search fails (no results obtained). Moreover, in our opinion, too many data are displayed about a private event (only time start and time end should be displayed).
- The only possibility to visualize the users who have accepted the invitation / not already answered to the invitation is to: search for the same event in another user's calendar whose calendar is public, moreover the event has to be public and the user has to be invited. If the event is private, there is no possibility to access that information.
- The difference between all day event and normal event is not specified. Using the application, we realized that, in case of all day event, the overlaps is not allowed only respect to other all day events, while it is possible that some overlaps are present with other normal events.
- Nothing is said about how the overlaps are evaluated. Using the application, we realize that the only moment in which the check on date consistency is done is upon creation of an event, while in the other situations (modify event, import calendar, accept invitation for an event) is not performed. This cause overlaps between user's events.
- It is not specified if only one or more than one invitations for the same event can be sent to the same user. We discovered that more than one invitation can be sent to the same user for the same event and it is also possible, for the organizer, to invite himself, but also send new invitation to a user who has already answered to a previous invitation.

In case of multiple invitations for the same event, it is possible to give different answers to the different ones and it is possible to accept an event more than one time (the event will appear more times in the calendar). These situations cause problems in accepting/refusing invitation.

- Nothing is said about who is possible to suggest to join the MeteoCal application: using the application, we realized that is possible to send a suggestion also to already registered users, including the logged user himself.
- Nothing is specified about what is intended as “bad weather conditions” for outdoor events in the documents. Using the application, we realized that bad for the developers corresponds to Rainy day.
- We have noticed an irregular email sending in case of bad weather conditions of a single event;
- An important task is to notify participants about the changing in weather conditions one day before the event date: nothing is specified about it.

We can't test in a precise way the update of weather conditions (and consequent email sending in case of bad weather conditions) three days before the event, because a different notion of “three days before” has been used respect to the our idea on this situation.

Moreover, in the RASD document there are some specified details or functionalities that we didn't find using the application:

- Upon registration, surname and username are not requested.
- In the first part of the document is said that is possible to change the email, while in the second part the same functionality is specified as not allowed. In the application, the email is not modifiable.
- No email is sent when a user is invited to an event.
- No email is sent when the date of an event is changed.

Goal	Creation of a new event by inserting all data in a correct way but the inserted time start and time end cause overlaps with other user's created event
Operating Environment	Add a new event page
Input	All required data are inserted in a correct way, but time start and time end cause overlaps with other user's created event.
Expected Result	The system doesn't create the event and an error message is displayed.
Obtained Result	Same as expected.
Test Passed	YES.
Suggestion	More detailed error message.

Goal	Creation of a new event by inserting all data in a correct way but the inserted time start and time end cause overlaps with other user's accepted event
Operating Environment	Add a new event page
Input	All required data are inserted in a correct way, but time start and time end cause overlaps with other user's accepted event.
Expected Result	The system doesn't create the event and an error message is displayed.
Obtained Result	The event is created.
Test Passed	NO: it is also a mandatory task to verify that no overlaps occur among user's events.
Suggestion	This functionality must be provided.

Goal	Creation of a new event by inserting all data in a correct way and classifying it as all day event
Operating Environment	Add a new event page
Input	All required data are inserted in a correct way and the event is an all day event and it doesn't cause overlaps with other all day events, but causes overlaps with other normal events.
Expected Result	The system creates the event.
Obtained Result	The event is created.
Test Passed	YES.

Goal	Creation of a new event by inserting all data in a correct way and classifying it as all day event
Operating Environment	Add a new event page
Input	All required data are inserted in a correct way and the event is an all day event and it causes overlaps with other all day events.
Expected Result	The system doesn't create the event and displays an error message.
Obtained Result	Same as expected.
Test Passed	YES.
Suggestion	More detailed error message.

Goal	Creation of a new event by inserting all data in a correct way except for the date, which is in the past
Operating Environment	Add a new event page
Input	All required data are inserted in a correct way except for the date, which is in the past.
Expected Result	The system doesn't create the event and displays an error message.
Obtained Result	The event is created.
Test Passed	NO.
Suggestion	Prevent the creation of event in the past: it is useless.

Goal	Modify of an event, by changing the date and time: the new choice causes overlaps with other events
Operating Environment	Name of the event page
Input	All required data are inserted in a correct way, but the new date and time cause overlaps with other events
Expected Result	The system doesn't update the event information, also displaying an error message.
Obtained Result	The event is updated
Test Passed	NO: moreover, avoiding overlaps between events is a fundamental task.
Suggestion	Implement this functionality.

Goal	Accept the invitation for an event which would cause overlaps with other events
Operating Environment	Notifications page
Input	The user clicks on "Accept" button.
Expected Result	An error message is displayed, notifying him that he can't accept the event because it would cause overlaps with other events
Obtained Result	The event is added to the user's ones and the user is among the participants.
Test Passed	NO: moreover, avoiding overlaps between events is a fundamental task.
Suggestion	Implement this functionality.

Goal	Add a new invitation for the event by adding the email of an already invited user or a user who has already accepted the invitation for that event
Operating Environment	Invite friends to an event page
Input	The email of an already registered user is inserted in the exact input place. That user has already received an invitation for that event and he has accepted it/not already answered to it.
Expected Result	No invitation is sent to that user and an error message is displayed.
Obtained Result	A new invite notification is sent to the specified user.
Test Passed	NO.

Goal	Add a new invitation for the event by adding an email which doesn't correspond to any user
Operating Environment	Invite friends to an event page
Input	The organizer inserts an email, but no user has that email.
Expected Result	No invitation is sent and error message is displayed.
Obtained Result	No error is displayed
Test Passed	NO.

Goal	Add a new invitation for the event by adding an incorrect email (its format is not correct)
Operating Environment	Invite friends to an event page
Input	The organizer inserts an incorrect email.
Expected Result	No invitation is sent and error message is displayed.
Obtained Result	No error is displayed
Test Passed	NO.
Suggestion	It would be useful to suggest that the inserted email is incorrect.

Goal	Add a new invitation for the event by adding own email
Operating Environment	Invite friends to an event page
Input	The organizer inserts his email.
Expected Result	No invitation is sent and an informaion message is displayed.
Obtained Result	A new invitation is created: the organizer has invited himself.
Test Passed	NO.
Suggestion	It is useless to create auto-invitation.

Goal	Import a calendar whose events don't cause overlaps
Operating Environment	My profile page
Input	The "Scegli file" button is clicked, the right file is chosen, the "Import Calendar" button is clicked.
Expected Result	The event of the imported calendar are created and added to the user's events.
Obtained Result	Same as expected.
Test Passed	YES.

Goal	Import a calendar whose events cause overlaps
Operating Environment	My profile page
Input	The "Scegli file" button is clicked, the right file is chosen, the "Import Calendar" button is clicked.
Expected Result	An error message is displayed and the import fails.
Obtained Result	All the events are created and added to the user's events.
Test Passed	NO.

Goal	Import a calendar selecting a non valid xml file
Operating Environment	My profile page
Input	The “Scegli file” button is clicked, the right file is chosen, the “Import Calendar” button is clicked.
Expected Result	An error message is displayed and the import fails.
Obtained Result	No action are performed, neither an error message is displayed: the user is redirected to the Dashboard page
Test Passed	PARTIALLY: no error message is displayed.

Goal	Suggest a new date for an outdoor event with bad weather conditions three days before the event
Operating Environment	Notifications page
Input	The update of the weather conditions is performed and there are three days left before the event. The weather conditions are bad.
Expected Result	A bad weather notification and an email are sent to the event creator, notifying him about the bad weather conditions for the event. Also a new date for the event is suggested.
Obtained Result	An email is sent to the creator, but the suggested date is the same of the event and this is not possible, since the weather conditions for the event were classified as bad.
Test Passed	NO.

Goal	Notify the participants of an event which has bad weather conditions one days before its start
Operating Environment	Notifications page
Input	The update of the weather conditions is performed and there is only one day left before the event. The weather conditions are bad.
Expected Result	A notification and an email are sent to the participants of the event, notifying them about the bad weather conditions for the event.
Obtained Result	Same as expected
Test Passed	YES