

Acceptance Testing **<MeteoCal>**

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1 Introduction

1.1 Scope

This document reports the test activities carried out on the software Nyquist-MeteoCal developed by the group composed by:

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The application to be tested and the documentation was taken from the following repository:

<https://code.google.com/p/nyquist-meteocal/>

1.2 Overview

The test product, in agreement with what defined in the requirements analysis and specification document and in the design document, is a web application, built using the Java Enterprise Edition (JEE) technology as required by customers . Its features were identified and detailed in the RASD with the given corrections which are attached to the artifact of the product .

1.3 Software Installation

In order to test the application we followed the "Installation Document" provided and tests were conducted using the Google Chrome browser. The software has been installed according to the instructions in the installation document. In addition to the given document were provided immediately some missing information through other channels; there were no problems during the installation phase.

1.4 Application Analysis

The analysis of the application has proceeded in two ways:

- Control of the features developed and adherence to which described in the RASD with its corrections and in the Design Document.
- Test the application to assess the skills and operational errors .

2 Test Case

In this phase the analysis will be based on the Test Cases Document produced by the authors of the project to test, and the test cases presented here are the ones provided by them plus the one not tested based on the RASD document. Our intents are:

- Verify the outcomes of the test cases where pre-conditions are met
- Verify the behaviour of the software in response to managed errors mentioned in the documentation
- Look for unmanaged errors, not found by the authors, to discover possible flaws in the software

2.1 [TC1]: Registration of a new user

Goal	Allow a User to register himself
Operating Environment	Sign Up page opened through the Sign Up button
Input	<ol style="list-style-type: none">1. Insert all the field with a valid email and the passwords match.2. Press the button "Register"
Expected Result	The User is registered in the application
Effective Result	The User is registered and redirected to home page
Final Result	Test Passed
Errors	<ul style="list-style-type: none">• The system doesn't tell the user if the email is already used and throw a MySQLIntegrityConstraintViolationException.
Inconsistencies with Documents	

2.2 [TC2]: Log into the system with his credentials

Goal	Allow a User to login into the system
Operating Environment	Login page opened through the button Login
Input	<ol style="list-style-type: none">1. Insert the email address and password belonging to a registered user2. Press the button "Login"
Expected Result	The system confirms the log in
Effective Result	The system confirms the log in
Final Result	Test Passed
Errors	<ul style="list-style-type: none">• The system doesn't tell the user if has filled the fields incorrectly, but it doesn't allow he to log in
Inconsistencies with Documents	

2.3 [TC3]: Create an event

Goal	Create a new event
Operating Environment	Create Event page opened through the Create Event button
Input	<ol style="list-style-type: none"> 1. Insert the required valid information 2. Press the button "Login"
Expected Result	The system confirms the creation of an event
Effective Result	The system confirms the creation of an event
Final Result	Test Partialy Passed
Errors	<ul style="list-style-type: none"> • the system allows to enter Start Time greater than End Time and saves them correctly in the database, but the daily view of the calendar will be wrong • Not an error but bad user usability: the system recognise the input of a invalid city despite not showing visibly the presence of an error it doesn't allow to complete the creation of the event (the next page isn't loaded and the current information isn't store) • Not an error but bad user usability: if you don't want to invite anyone, the fields related to this function must contain the word already set "email". • If you enter an email address to invite a user that doesn't exist the system allows you to move forward when the button "Create Event" is pressed, even if it is nonsense. • The system doesn't recognise events that persist for several days.
Inconsistencies with Documents	

2.4 [TC4]: Update an event

Goal	Allow a User to login into the system
Operating Environment	Login page opened through the button Login
Input	<ol style="list-style-type: none"> 1. Insert the email address and password belonging to a registered user 2. Press the button "Login"
Expected Result	The system confirms the log in
Effective Result	Error with the committed war
Final Result	Test Passed with the recreated war
Errors	See the log below
Bug Fix	I found that the line 26 in the AccessDeniedBean is an empty line so i recreate the war with the project source code with my Netbeans, and seems the bug is gone, probably the war committed was faulty and use a previous bugged version of the class.
Inconsistencies with Documents	

1 Caused by: java.lang.NullPointerException
 at it.nyquistmeteocal.beans.AccessDeniedBean.isAdmin(AccessDeniedBean.java:26)

2.5 [TC5]: Delete an event

Goal	Delete an existing event
Operating Environment	The button used to delete an occurrence is in the Homepage, you can see it when you select an event
Input	1. Press the button with the trash icon
Expected Result	The system confirms the deleting of an event
Effective Result	<ul style="list-style-type: none">• Information is correctly removed from the db• An existing event has been deleted• Event removed also for the participants• Participants receive a notification for the delete event
Final Result	Test Passed
Errors	
Inconsistencies with Documents	

2.6 [TC6]: Display the events included in his calendar

Goal	View user's calendar events
Operating Environment	Homepage
Input	<ol style="list-style-type: none">1. Create an owned event2. Invite the current user from another user event3. Accept the invitation
Expected Result	The system shows the owned event and the participated event
Effective Result	The system shows the owned event and the participated event
Final Result	Test Passed
Errors	
Inconsistencies with Documents	

2.7 [TC7]: Invite other users to an event

Goal	Send an event invite to the user
Operating Environment	On the event creation page or On the edit event page
Input	1. Insert the email address of the user to invite
Expected Result	The system confirms the modification or the creation of the event and create the event invite related to the invited user
Effective Result	As expexted
Final Result	Test Passed
Errors	<ul style="list-style-type: none"> • you can invite yourself to an event. • if you enter an email that not exists in the database, the system accepts it anyway without signalling any type of error. • the system doesn't check if an invite for the event is already sent and its pending.
Inconsistencies with Documents	

2.8 [TC8]: Accept an invite

Goal	Accept an invitation
Operating Environment	Invites page opened through the Invites button
Input	1. Click on the accept button
Expected Result	The system confirms the acceptance of the invitation
Effective Result	The invitation has been accept and the system loads the Invite Accepted page where there is a confirmation of acceptance
Final Result	Test Passed
Errors	
Inconsistencies with Documents	

2.9 [TC9]: Decline an invite

Goal	Decline an invitation
Operating Environment	Invites page opened through the Invites button
Input	1. Click on the decline button
Expected Result	The system confirms the decline of the invitation
Effective Result	The invitation has been declined and the system loads the Invite Declined page where there is a confirmation of rejection
Final Result	Test Passed
Errors	<ul style="list-style-type: none"> • If the user decline the invite remains in the event invited list. Implementation choice?
Inconsistencies with Documents	

2.10 [TC10]: Proposition of an alternative day

Goal	Read a notification about the outdoor events scheduled in three days for which rain is expected or accept the suggestion to change the date on which the event will take place
Operating Environment	Bad Weather Notifications page opened through the button Bad Weather
Input	<ol style="list-style-type: none"> 1. Previously created an event with Rain weather within three days 2. Click on the button to read the notification or accept the suggestion
Expected Result	The system confirms the reading of the notification or postpones the data on the first day when it doesn't rain
Effective Result	<ul style="list-style-type: none"> • A notification is been read • The date on which the event will take place has been postponed • Information is correctly stored into the database • The user clicks the button to read: the system loads the Bad Weather Notification Confirm page where there is a confirmation of reading • The user clicks the button to accept: the system loads the Proposed Notification Postponement page where there is a confirmation of postponement
Final Result	Test Passed
Errors	
Inconsistencies with Documents	

2.11 [TC11]: Notification of bad weather conditions the day before

Goal	Read a notification about the fact that the weather forecast for outdoor events of the following day will be rainy
Operating Environment	Tomorrow Rainy Notifications page opened through the button Tomorrow Rainy
Input	<ol style="list-style-type: none">1. Previously created an event with Rain weather within one day2. Click on the button used to read the notification
Expected Result	The system confirms the reading of the notification
Effective Result	A notification is been read
Final Result	Test Passed
Errors	
Inconsistencies with Documents	

2.12 [TC12]: Search for another user

Goal	Search for another user
Operating Environment	Input text area in the Homepage
Input	<ol style="list-style-type: none">1. Insert the email address of the desired user2. Press the button "Search"3. Press the "Go to User Calendar"
Expected Result	The system show the searched user's calendar
Effective Result	A page with the calendar of the user sought is loaded and clicking on an event the system shows a window where there are more details about the selected occurrence
Final Result	Test Passed
Errors	<ul style="list-style-type: none">• Incorrect email: the system doesn't say that the email doesn't exist, but simply shows you a blank calendar
Inconsistencies with Documents	

2.13 [TC13]: Update events weather information

Goal	Check the weather every day at 00.00 to update the weather information in its database and consequently update the events
Operating Environment	System
Input	
Expected Result	
Effective Result	
Final Result	Not Tested Not Present Present with different behaviour
Errors	
Inconsistencies with Documents	

3 Conclusion

Overall, the functionality declared were all implemented. The application presents minor and tolerable defects, and still easily fixable (Create/Edit events and invites participants). The application is robust, the system never came in an unusable state to require a server restart. The behaviour is in most cases correct and consistent with what specified in the RASD with its correction. As for usability, the site is easily accessible in its sections (except for logging out), but in some cases it is redundant and not direct to access the functionality in an easy way (event form, view other user's calendar). The provided code has no documentation for the most part, since there is no JavaDoc and comments are almost totally absent. On the bright side the structure of the code is modular, and the operations contained in each module are usually not complex. So, regardless of the lack of documentation, the code should be maintainable with very little effort. In conclusion, the product answers fully the requests stated, but has few flaws that should be easily fixable.