



METEOCAL PROJECT

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# Test Case Manual

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# Chapter 1

## Introduction

This document will provide information about all the test that were made to test our Meteocal web application. We used two different approach:

- An automatic one, using the testing tool provided by java (JUnit, Mockito).
- Manual test, that were done by our self, putting different input and reporting the received output.

# Chapter 2

## Automatic Test

### 2.1 EventTest

<b>Test Case Name</b>	OkWithBadInviteTest
<b>Goal</b>	Test event,badConditions and participant creation
<b>Input</b>	An Event with correct input, a badCondition
<b>Expected output</b>	Creation of the event, the badCondition and the participant.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none

<b>Test Case Name</b>	OkWithBadInviteTest
<b>Goal</b>	Test The method "dateAndTimeInTheMiddleCreate".
<b>Input</b>	Any type of possible input to the method "dateAndTimeInTheMiddleCreate".
<b>Expected output</b>	A false return value.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	The method "dateAndTimeInTheMiddleCreate" checks the data consistency of not overlapping events; since no event was previously created the return is always false for this test.

<b>Test Case Name</b>	NotDateError
<b>Goal</b>	Test the data input error.
<b>Input</b>	An Event with starting date in the past
<b>Expected output</b>	A NullPointerException.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	The exception is not thrown during the executing of the application but requestContext.execute is called; since in the test this will cause a NullPointerException we forced this to happen.

## 2.2 NotificationTest

<b>Test Case Name</b>	isCorrectlyVisualizedTest
<b>Goal</b>	Test The methods "isVisualized" and "isNotVisualized" used to check whether if a notification has been visualized or not.
<b>Input</b>	A notification that has not been visualized.
<b>Expected output</b>	The String "none" and "display" respectively fort "isVisualized" and "isNotVisiaulized".
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	The string are used in the xhtml context to show and hide the element dynamically.

## 2.3 SchedulerControllerTest

<b>Test Case Name</b>	dataMergeTest
<b>Goal</b>	Test "dataMerge".
<b>Input</b>	Two different Date.
<b>Expected output</b>	A new Date with the date (year, month, day) of the first Date and the time of the second Date.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	loadPublicCalendarTest
<b>Goal</b>	Check if isPublic (that indicates if the calendar created is public or of the logged user) is set to true during the loading of a public calendar.
<b>Input</b>	A schedulerController.
<b>Expected output</b>	A true value of isPublic.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	loadOwnCalendarTest
<b>Goal</b>	Check if isPublic (that indicates if the calendar created is public or of the logged user) is set to false during the loading of the logged user's calendar.
<b>Input</b>	A schedulerController.
<b>Expected output</b>	A false value of isPublic.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

## 2.4 SearchTest

<b>Test Case Name</b>	search
<b>Goal</b>	Check "PrivateCalendar" (that indicates if the searched calendar created is public or private).
<b>Input</b>	A private calendar, a shared calendar, a public calendar.
<b>Expected output</b>	"PrivateCalendar" will assume true value for a shared and public calendar, otherwise false.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

## 2.5 SettingsTest

<b>Test Case Name</b>	initTest
<b>Goal</b>	Check if all the current user setting are loaded.
<b>Input</b>	A user.
<b>Expected output</b>	The settings page and bean will take the information of the user stored in the database correctly.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	checkPasswordTest
<b>Goal</b>	Check the correct insertion of the old password.
<b>Input</b>	A null password and a correct password.
<b>Expected output</b>	A true value to "checkPassword" when the correct password is inserted, otherwise false..
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	changeMailPassTest
<b>Goal</b>	Check if the email is changed.
<b>Input</b>	The logged user.
<b>Expected output</b>	The user will have the same settings as before except for the new email.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	changePrivacyToSharedt
<b>Goal</b>	Check if the calendar's privacy is changed.
<b>Input</b>	The logged user.
<b>Expected output</b>	The user will have the same settings as before except for the calendar privacy.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

## 2.6 ShowEventControllerTest

<b>Test Case Name</b>	getDateTest
<b>Goal</b>	Check if the bean gets the correct information from the database.
<b>Input</b>	An event with some participants.
<b>Expected output</b>	The bean will have the correct date and time of the event.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	weatherImagesTest
<b>Goal</b>	Check if the bean gets the correct information from the database and show the correct image about the weather.
<b>Input</b>	An event with some participants and the weather associated to it.
<b>Expected output</b>	The bean will have the correct information about weather and will show the correct image.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	responseNotification
<b>Goal</b>	Check if a new notification is created when a new response is set.
<b>Input</b>	An event with some participants and a new response to an invitation.
<b>Expected output</b>	The bean will create a new notification.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.



<b>Test Case Name</b>	isInvitedTest
<b>Goal</b>	Check if the bean gets the correct information from the database.
<b>Input</b>	An event with some participants.
<b>Expected output</b>	The bean will have the correct information about the participants (name and response).
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

## 2.7 TimeControllerTest

<b>Test Case Name</b>	PrecipitationTest
<b>Goal</b>	Check the method "checkPrecipitations".
<b>Input</b>	Different weather with different badconditions layer and precipitations value.
<b>Expected output</b>	The method will return true if (due to project specification) the badConditions constraint are violated otherwise false.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	checkCondition
<b>Goal</b>	Check the method "checkPrecipitations".
<b>Input</b>	Different weather with different badconditions..
<b>Expected output</b>	The method will return true if (due to project specification) the badConditions constraint are violated otherwise false.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

## 2.8 UserRegistrationTest

<b>Test Case Name</b>	newUsersOkAndRepeated
<b>Goal</b>	Check if a user is correctly registered into the system.
<b>Input</b>	A new user.
<b>Expected output</b>	The user will be added to the database and a new calendar will be created.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	newUsersOkAndRepeated
<b>Goal</b>	Check if a user is not created when an username already used is inserted.
<b>Input</b>	An user.
<b>Expected output</b>	The user will be not added to the database and an error will be shown.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

<b>Test Case Name</b>	newUserNull
<b>Goal</b>	Check if an exception is thrown when a null user name is inserted.
<b>Input</b>	An user with no user name.
<b>Expected output</b>	An exception will be thrown.
<b>Output obtained</b>	The output expected.
<b>Additional Comments</b>	none.

# Chapter 3

## Manual Testing

For manual testing we test our application by inserting various data (both correct and wrong) in order to test the correct functionality of our application to different input; all the result obtained are reported in the table in the next page.

Because the only method that needed a deep testing phase is the add event function, we created a set of test case only for that event. We reported different situation (behaviour of the application to null value inserted, to incorrect value, and to correct value) and the output provided.

[illegible]