Meteocal

Acceptance Testing

(Project to test: Calendarium)

Software Engineering 2

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Part I
Introduction

1   Objectives

This document reports all results during the test phase of the project *Meteocal* developed by Alessandro Cianferotti, Alessandro Cimbelli, Alessandro De Angelis. The Google Code repository URL of the project is

https://code.google.com/p/calendarium/

In the repositoy there is a folder containing the war file and various manuals and the documentation.

2   Preparation

2.1   Preparation

To start the testing we downloaded all the documentation, the manuals and the source code of the project from *Google Code* repository. Then we just deployed the .war file in our *Glassfish* instance file following the procedure described in the installation manual. For testing purposes we used a *Glassfish* server installed on a fresh *Ubuntu 14.04* system, and the *Mozilla Firefox* web browser. The installation manual supposes that the operative system used for deployment should be *Microsoft Windows*; however we had a problem with the deployment of mysql which is reported under the Application deploy section. Installation For the installation of the application on the Glassfish server we followed the instructions from the Installation Manual that, were almost sufficient to deploy the application correctly.

We had a problem with the connection to the database, which can however be easily solved by adding this additional property to the Connection Pool:

Name	Value
URL	jdbc:mysql://localhost:3306/calendarium?zeroDateTimeBehavior=convertToNull

2.2   Application deploy

The deploy of the application worked as expected.

We only encountered a platform specific problem with MySQL: by default the names of the tables in mysql for the linux operative systems are case sensitive, instead on Windows they are case unsensitive by default. This causes all the queries to fail because of names mismatches. We asked for assistance to the developers of Calendarium, which helped us solve the issue, founding out on stackoverflow (https://dba.stackexchange.com/questions/59407/how-to-make-mysql-table-name-case-insensitive-in-ubuntu) that it's necessary to change the mysql configuration as follows:

Open terminal and edit /etc/mysql/my.cnf

```
sudo nano /etc/mysql/my.cnf
```

Underneath the [mysqld] section.add:

```
lower_case_table_names = 1
```

Restart mysql

```
sudo service mysql restart
```

Then check it here:

```
mysql −u <AdminUser> −p <AdminPassword>
```

After the deploy of the application is necessary to reach the url http://localhost:8080/MeteoCalv1 as correctly stated in the Installation Manual Application

2.3   Issues

As stated by the Known Bugs Document if a user tries to modify a past event that will be deleted.

The export/import of the calendar don't work under Unix for (unknown reason).

As stated in the RASD document "Users can see details of public events from other users calendars that have been set public.", but this behaviour goes againts the speficication of the application.

User's search work searching only the user that have a public calendar clicking on "Go" before/after a user search (a failing one), show a mysterious public calendar.

Part II
Casi di test e risultati

For the testing and the analysis of results we read the latest version of the RASD (in particular the use cases section) and the testing document.

For the analysis of the various test cases we used tables containing the following properties:

Goal A brief description of the test case

Environment The web page where the test has been executed, expressed as a relative URL.

Input The input data supplied to the page.

Expected output The result that we expect the application to produce according to the specifications

Obtained result:

- «Compliant» if the same as the expected output
- «Partially compliant» if the specification is only partially respected
- «Not compliant» otherwise

Final result Final result obtained as a side effect, like, for example the redirect to an other page after the completion of the executed operation.

Moreover we listed after the table the following sections:

Expected exceptions Exceptions described in the use cases and/or in the supplied test cases.

Unexpected exceptions Exception not listed in the supplied specification.

Notes Test assumptions or additional comments.

For every encountered exception we also specified if the message supplied by the application is clear and understandable or instead not useful and not comprehensible for the user.

We list in the following sections the test cases derived from the documents produced by the developers of Calendarium, grouped by the relevant actors of the system.

3 Guest user

3.1 Registration

Goal	Registration of a new user in the system
Environment	MeteoCal home page, without being logged in
Input	Email and password
Expected output	The user data is inserted into the system and the user can login
Obtained output	**Compliant**
Final result	The user is redirected to the homepage without any positive feedback

Expected exceptions

- We verified that if the inserted email is already present in the system, or the two passwords the user has to insert do not match, the system correctly generates an error, clearly notifying the user of the ongoing problem.

Notes

- Even if the registration goes well, no confirmation message is thrown to the user to confirm the registration, but only a redirect to the homepage is done. However, in both the RASD and the Testing Document nothing is defined about it.

3.2   Login

Goal	Successful access to the user homepage
Environment	MeteoCal home page, without being logged in
Input	Email and password
Expected output	Successful authentication
Obtained output	**Compliant**
Final result	The user is redirected to her homepage

Expected exceptions

- According to the supplied specifications, if the provided data is not correct, the system generates an error of incorrect password.

4   Logged User

4.1   Logout

Goal	Return to the Home Page as a visitor
Environment	MeteoCal user home page, being logged in
Input	Hit logout button
Expected output	The user is correctly logged out from the system and it's unable to perform any operation
Obtained output	**Compliant**
Final result	The user is redirected to the homepage and it's a visitor

4.2   Event Creation

Goal	Event created succesfully
Environment	MeteoCal user home page, being logged in
Input	Event title, Start Date, End Date, Description, Public, Outdoor
Expected output	The user data is inserted into the system and the event is created
Obtained output	**Compliant**
Final result	The user is redirected to the homepage with a positive feedback

Expected exceptions

Exception	Day Occupied(Overlapping)
Caused by	The event to be created is going to overlap another event
Expected output	Event not Created, message "Found Overlapping"
Obtained output	**Compliant**
Final result	The user is redirected to the homepage and the event is not created

Exception	Date not Correct
Caused by	The start date is setted to be after the ending date
Expected output	Event not Created, message "Date not Correct"
Obtained output	**Compliant**
Final result	The user is redirected to the homepage and the event is not created

Exception	Input not Complete
Caused by	Correct Date , free day or title missing
Expected output	Event not Created, with the error message displaying the missing information
Obtained output	**Compliant**
Final result	The user is redirected to the homepage and the event is not created

4.3   Event Modify

Goal	Event modified if and only if date is correct, free day and all input insert, the user who edit is the owner
Environment	In user HomePage , logged in , Event Dialog ,own event
Input	Correct Date , free day , input insert
Expected output	Event Created, message "event modified"
Obtained output	**Compliant**
Final result	The user is redirected to the homepage and a positive message feedback is displayed

Expected exception

Exception	Day Occupied(Overlapping)
Caused by	The event to be created is going to overlap another event
Expected output	Event not Created, message "Found Overlapping" , " event Recreated"
Obtained output	**Compliant**
Final result	The user is redirected to the homepage and the event is not modified

Exception	Event not owned
Caused by	The user who try to modify an event is not the owner
Expected output	Modify button disabled
Obtained output	**Compliant**
Final result	The user is unable to modify the event

4.4   Event Delete

Goal	Event deleted if and only if the user is the owner of event
Environment	In user HomePage , logged in , Event Dialog , own event
Input	Delete Button Click
Expected output	Event deleted
Obtained output	**Compliant**
Final result	Event deleted

4.5   Accepted Event decline

Goal	Decline Event after accepting
Environment	In user HomePage , logged in , Event Dialog , not own event
Input	Decline Button Click
Expected output	All input disabled, Event declined , invitation in invitation dialog
Obtained output	**Compliant**
Final result	All input disabled, Event declined , invitation in invitation dialog

4.6   Set Public Calendar

Goal	Set the user own calendar to public or private
Environment	Page */calendar.xhtml, logged in, in the Settings dialog*
Input	User clicks on the Public/Private switch
Expected output	The "Public Calendar" flag value is changed
Obtained output	**Compliant**
Final result	If the new value is "Public" the user is listed in the users dialog, and if the new value is "Private" the user is unlisted from the users dialog.

4.7   View public calendar

Goal	View the public calendar of another user
Environment	Page */calendars.xhtml, logged in, Users Dialog,* the selected user's calendar is set as public
Input	User selects another user's email from the dialog
Expected output	The selected user's calendar appears with its public events
Obtained output	**Compliant**
Final result	A new dialog containing the selected user calendar appears

4.8   Import

Goal	Import own calendar
Environment	In user HomePage, user is logged in. Settings dialog open. Xml document has not been modified by the user.
Input	Import click
Expected output	Old event deleted, new events imported
Obtained output	**Not testable**
Final result	

Note

- We couldn't test this feature because the export functionality doesn't work on our test platform.

4.9   Export

Goal	Export own calendar
Environment	In user HomePage, user is logged in. Settings dialog open.
Input	Click on export
Expected output	All the user events are exported
Obtained output	**Not compliant**
Final result	

Unexpected exceptions

- The application always fails to export the calendar, but says "Export completed" and then "Export failed". This is rather confusing for the user.

4.10   Warning Banner

Goal	if event has warning, the banner has the warning icon
Environment	In user HomePage, user is logged in.
Input	
Expected output	Warning banner
Obtained output	**Compliant**
Final result	

4.11   Warning dialog populated

Goal	Warning in warning dialog
Environment	In user HomePage, user is logged in.
Input	Click on warning button.
Expected output	Warning in carousel.
Obtained output	Warning in carousel.
Final result	

4.12   Warning suggestion correct

Goal	Warning suggestion correct
Environment	In user HomePage, user is logged in. Warning dialog open, possible suggestion.
Input	Click on warning button.
Expected output	Warning in carousel.
Obtained output	Suggestion possible or system says no suggestion is possible , modify button enable.
Final result	

Part III
Final Considerations

- **Defined in RASD but not implemented**:

  - As RASD report "Users can see details of public events from other users' calendars that have been set public." but in reality users can see other users's pages ONLY if their calendar have been set "public".

- **Not clearly stated in RASD and/or doubtful behaviour:**

  - The weather information is not displayed in the event page.

- Other **notes**:

  - In general is boring to be deauthenticated from the system after few minutes, it should be increased the hanging time
  - Import and Export doesn't work for Unix systems, because the referral Operative systems for testing and development are *Microsoft Windows* and *MacOSX*

Part IV
Hours Count

Table 1: Hours Count

Task	Ferrai	Gabbianelli	Grazioso
Installation and configuration	–	1	1
Prima esplorazione delle pagine	–	–	1
Lettura di RASD, casi di test e rettifiche	1	1	1
Stesura del documento	1	1	1
Impaginazione	1	1	1
Revision	1	1	–
Total	4	5	5

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