



Manage Project Homework:
User Acceptance Test Document of the project
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1 Introduction

1.1 Purpose

The purpose of this document is to check whether the MPH system implementation developed by the Ferraris Monti Morelli team meets the requirement of the given specification and if the end-user can accept or not the system developed.

1.2 Definitions, acronyms, and abbreviations

MPH: Manage Project Homework, the software system to be produced.

Team: a set of 1, 2 or 3 students who work together on the same project.

Admin: the system administrator

Release: the model of a tangible object produced as a result of a specific phase of the project.

Deadline: the date by which the artifact associated to a deliverable must be delivered.

RASD: Requirements Analysis and Specification Document

DD: Design Document

DBMS: DataBase Management System

GUI: Graphical User Interface

1.3 References

- Description of the project: <http://corsi.metid.polimi.it>
- MPH RASD
- MPH DD
- Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli, Ingegneria del Software - Fondamenti e Principi, Pearson Education Italia, 2004
- Test Plan Guide by David Bowma: <http://www.information-management-architect.com/user-acceptance-testing.html>

2 Documentation Analysis

2.1 Requirements Analysis and Specification Document

2.1.1 Overall Analysis

The RASD was documented quite well: stakeholders are correctly specified, as well as their functions and relationships. In general, is easy to see which are the functions that the software implements. On the other hand, about the negative aspects, it is possible to find some defections both in the static and dynamic analysis:

- Static Analysis
 - Use Cases:
 - * titles are not always an active verb phrase
 - * some pre-conditions are too weak (for example, in the *Login* use case there is no assumption whether the user was already registered in the system or not, in the *Mark a Release* use case there is no assumption about a professor has already closed the uploads for a particular release or not)
 - * some use cases does not respect the behavior experienced during runtime testing (see coherence with the software implementation subsection below for more information).
- Dynamic Analysis:
 - Sequence Diagrams
 - * most of them are oversimplified: most passages have just been skipped (for example the *Professor Evaluate Release* lacks of the closure of release uploads action) or too simply modeled (for example in the *Student Registration* diagram, the loop condition is too weak comparing to the experienced testing results).
 - * even if they are able to give an overview of what are the steps that the user must perform, they do not clarify which are the responsibility of each system actor, because the mph system is simply combined all in a single actor "system".
 - Active Diagrams
 - * The *evaluate release* activity diagram is not clear, but it is a central point in the entire system and needs more detail.

2.1.2 Coherence with the software implementation

The administrator functionalities "Delete professor", "Delete student" and "Delete team" listed in the document were not implemented.

In order to insert an administrator into the system, the administrator must be inserted manually into the database, but is not written anywhere in the RASD.

If a student want to upload a new file for a release, if he/she already uploaded a file for that release he/she cannot upload a new one, but this behavior is not written anywhere in the RASD.

The professor can mark a release only after having stopped the possibility to upload new releases, but this behavior is not written anywhere in the RASD.

2.2 Design Document

2.2.1 Overall Analysis

The Design Document is composed by two sections and an appendix. Section 1 contains the description about the database model, Section 2 contains the UX diagrams, BCE diagrams for every user and the JSP models. The appendix contains a synthetic description of the software used to develop the Design Document.

The DD is well organized but it does not say anything about the high-level system architecture such as the number of “logic layers” nor explanations about the choices taken during the design phase.

The Entity-Relationship model describes the attributes of every entity and the meaning of the relationships. The figure about the E/R model does not highlights the presence of “weak entities” of the model.

The UX diagrams are clear and contain all the possible paths for the different types of users. Different colors are used for actions, viewed pages and detail frames.

The BCE models offer a wide view upon the functionalities available to the users and the three levels (Boundary, Control, Entity) are clearly visible in the diagrams.

Every object in the JSP models contains all the fields and operations belonging to that object.

It is remarkable that nowhere in the document is present a detailed explanation of the classes used in the software architecture, this gives poor information to readers who are interested in understanding the meaning and use of the system objects.

From the document, there is apparently no use of particular design patterns, this choice should have been explained in the Design Document as it is important for the system architecture.

Is remarkable that there are no javadoc available for the project, nor any guide in order to document the source code: this lack doesn’t let to know how the project was developed, and in this way is quite difficult to test the application with a white-box approach.

2.2.2 Coherence with the software implementation

The logic representation of the E/R model of the database reflects the actual implementation in the released software.

Every object contained in the Design Document have been effectively implemented in the released software.

Especially the navigation diagrams (UX) correspond to the real series of web pages which can be visited by the users.

2.3 User Guide

2.3.1 Overall Analysis

The user guide is quite useful to let the end-user know how to use the software: it is detailed with images and, except for the installation guide, it is precise and detailed, clarifying what are the functionalities implemented and how to perform them.

For the install guide analysis, please check the installation testing on page 8.

It is remarkable that is not explained whether there is any kind of support service to call if something goes wrong or if the end user needs help.

2.3.2 Coherence with the software implementation

The user guide is coherent with the software implementation in every step, except for the installation guide.

For the install guide analysis, please check the installation testing on page 8.

3 Testing

3.1 Testing Environment

The testing was executed on two different hardware platforms, in order to cross validate the software and have more reliable results.

3.1.1 Platform

- Host no. 1
 - OS X Lion 64 bit 10.7.3
 - Intel 2.2 GHz Intel Core i7
 - RAM 4 GB 1333 MHz DDR3
 - AMD Radeon HD 6750M 1024 MB
- Host no. 2
 - Ubuntu 11.10 32 bit

- **Intel 900 MHz Celeron M 353**
- RAM 1 GB 1333 MHz DDR2
- Intel GMA 950 224 MB

3.1.2 Tools Used

- Host no. 1
 - Firefox 10.0
 - Java JRE 6.0.29
 - JBoss-5.1.0.GA
 - MySQL Workbench 5.2.37
 - MySQL Community Server 5.5.20
- Host no. 2
 - Google Chrome 17.0.963.46
 - Java JRE 6.0.29
 - JBoss-5.1.0.GA
 - MySQL Workbench 5.2.37
 - MySQL Community Server 5.5.20

3.2 Test Plan

In order to test the software in an exhaustive way, the test will be divided in two phases:

1. **Installation Testing**
2. **Use Cases Testing**

For the use cases tests results will be checked with database tools.

3.2.1 Installation Testing Phase

This phase will test the *Installation Guide* accuracy, as well as the consistency of the entire install procedure software.

3.2.2 Use Cases Testing Phase

This phase will test the use cases described in the given RASD document. It will check if the declared use cases have been well tested by the developer team before releasing the software. It will be performed some stress test as well in order to check the system robustness with even more complex input data.

3.2.3 Checking results

In order to check the results of each test, the database will be queried with MySQL Workbench, checking that what is written in the database is coherent with what was expected to be recoded by each test.

3.3 Installation Testing

The installation phase was accomplished with some errors. The user guide was not clear in all its points: a more verbose installation guide should be given in order to let the user perform the software installation without errors due to interpreting some commands.

In particular:

- In the **Installation** subsection of the **Installation Guide** section
 - There is no mention of what kind of JDK was used to build the project. The project was tested with a JDK 6, and it failed to start due to the fact that the .jar delivered with the project were builded with JDK 7 (see error log in the appendix on page 20). After contacting the developer team and obtained a JDK 6 compiled version, the testing could be started.
 - In step 3 the user doesn't know if he/she should use an external database or if the software already has an internal database. After contacting the developer team, it was decided to use an external MySQL database server.
 - In step 4 is not specified what kind of email address parameters are requested, and why they are requested. Later in the document the point is not clearly explained. Reading the RASD or the DD didn't help in order to understand what the user was supposed to do.

In the end, the project was installed and successfully executed without further problems.

3.4 Functional Testing

3.4.1 Strategy

The strategy and methodology followed during the testing phase are now listed.

The testing activity is based on dynamic techniques to obtain information of interest about the tested application by observing some executions using a black box approach. The objective of our testing activity is to verify that the functional specifications are implemented correctly according to the RASD. Each test performed will be reported and detailed in order to know if it was successful or not, and in the latter case, what went wrong and how crucial it was for the end-user. The testers team wanted also to test the project adopting a white-box approach, but the lack of a source code documentation nor the presence of javadocs discouraged this intention.

3.4.1.1 Black box testing For all the testing phase was used black-box testing: is a method of software testing that tests the functionality of an application without specific knowledge of the application's code/internal structure. The tester is only aware of what the software is supposed to do, but not how. Test cases are built around specifications and requirements of the project.

3.4.1.2 Test reporting For reporting each test description and its results, will be used the following table.

Scope	Document the scope of this test
Test Execution	Describe how testing will be completed
Test Entrance Criteria	List the entrance criteria that should be met before this test commences
Test Exit Criteria	List the exit criteria that should be met before this test is considered complete
Test Results	Describe what are the test result. Extended description of what happened.
<i>Defect Severity</i>	Is a score (follow the Test defect severity table to know what score insert here) followed by a synthetic description of what went wrong.
Stressed Components	Describe the stressed components if noticeable

Table 1: Test report table

Severity	Definition
<i>1 - Critical</i>	Defects that prevent further progress until resolved. In testing, the entire application component or function will not work. There is no work-around available, and testing cannot continue. This kind of defects will definitely impact testing schedule and project end-dates if not fixed immediately. Affected component cannot go into production without this defect resolved
<i>2 - Serious</i>	Defects that occur in a major function and are grossly wrong. In testing, the entire application component or function will not work. There is a bypass available, and some testing can continue. In acceptance testing, defects that invalidate high or medium priority test cases but the end-date impact is manageable. Component can go into production, but requires manual user workaround.
<i>3 - Moderate</i>	Defects that occur in a function but progress can continue. In testing, the function tested will not perform as expected but testing can continue. Defects invalidate low priority test cases but the end-date impact is manageable.
<i>4 - Low</i>	Defects are cosmetic, such as errors in format or spelling. A defect in the work product under inspection which, if not fixed, would NOT cause a malfunction, would NOT prevent the attainment of a required result, and would NOT result in a problem report. Defects that do not invalidate test cases and do not affect end-date.
<i>5 - Very Low to None</i>	Defects that are very hard to notice, and that doesn't affect at all the end-date nor invalidate test cases. This kind of severity also includes nice-to-have features and future enhancements.

Table 2: Test defect severity table

3.4.2 Use Cases Testing

3.4.2.1 Student

1. Registration

Scope	This tests the registration of a new Student into the MPH system
Test Execution	The registration fields are filled with different kind of content
Test Entrance Criteria	Student accesses MPH
Test Exit Criteria	MPH checks the username chosen by the Student and confirms the registration
Test Results	The system executes correctly all the checks on the registration fields, if the fields are correct it confirms the registration to the Student, otherwise a description of the error is shown.
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 3: Registration Test report table

2. Login

Scope	This tests the login of a Student into the MPH system
Test Execution	Multiple tries with various combination of username and password
Test Entrance Criteria	Student accesses MPH
Test Exit Criteria	MPH checks the user authentication and show him/her the Student interface
Test Results	MPH rejects invalid combination of username and password and show messages with the outcome of the operation
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 4: Login Test report table

3. Create new team

Scope	This tests the creation of a new team by the Student
Test Execution	Tried to create a new team at the end of the registration process and from the Student interface
Test Entrance Criteria	Student executes the command to create a team from the Student interface
Test Exit Criteria	MPH checks the availability of the chosen team name
Test Results	MPH correctly checks the chosen username and, if available, confirms the group creation
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 5: Team Creation Test report table

4. Join a team

Scope	This tests the possibility for a Student to join a team
Test Execution	Tried to join teams which would not accept new students, full teams and teams for the same project of the belonging team
Test Entrance Criteria	Student executes the command to join a team from the Student interface
Test Exit Criteria	MPH notifies the Student about the successful operation
Test Results	Student correctly joins the chosen team
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 6: Join Team Test report table

5. Edit profile

Scope	This tests the possibility for a Student to edit his/her profile
Test Execution	The profile editable fields are filled with different kind of content
Test Entrance Criteria	Student executes the command to edit his/her personal data from the Student interface.
Test Exit Criteria	MPH checks that the inserted data are correct and notifies the Student about the successful operation
Test Results	When the edit is complete the Student Home page is shown
<i>Defect Severity</i>	<i>Low</i> MPH shows an error message even if the password change is successful and the screen remains in the Profile Edit.
Stressed Components	Not noticeable any component stressed.

Table 7: Profile Edit Test report table

6. Upload a release

Scope	This tests the Student functionality to upload a release
Test Execution	Tried to upload big files, long comments and multiple files for the same release
Test Entrance Criteria	Student executes the command to enter his/her enrolled project, from which he/she will be able to upload a new release
Test Exit Criteria	MPH notifies the Student about the successful upload
Test Results	MPH accepts the uploaded file with a message if the operation is successful but it does not say anything if the uploaded release is saved without a file
<i>Defect Severity</i>	<i>Serious</i> File with long comments are not stored into the Database but it seems that the system registers the upload making impossible for the Student to upload another file for the same release and for the Professor to evaluate and download the release. Choosing to upload more than one file for the same release actually stores into the system only the last uploaded file, this is not documented anywhere. It is not possible to upload files for a release after uploading them for the first time, this should have been written clearly in the RASD but it is not present. For further information, check the Server Log on page 24.
Stressed Components	UploadReleaseBean

Table 8: Upload Release Test report table

7. Review a release

Scope	This tests the possibility for the Student to view details about a release
Test Execution	Viewing release from the project view
Test Entrance Criteria	Student executes the command to access the desired project, from the Student interface
Test Exit Criteria	MPH shows the Student details about the selected release
Test Results	MPH shows the Student details about the selected release successfully
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 9: View Release Test report table

8. View a release mark

Scope	This tests the view of the mark assigned by the Professor to the uploaded release
Test Execution	Viewing release mark from the project view
Test Entrance Criteria	Student executes the command to access the desired project, from the Student interface
Test Exit Criteria	MPH shows the Student the desired mark
Test Results	The desired mark is shown correctly next to the corresponding release
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 10: Release Mark Test report table

9. View a shared release

Scope	This tests the possibility for the Student to view releases belonging to other teams
Test Execution	Testing from the “View shared release” page
Test Entrance Criteria	Student executes the command to view shared releases, from the Student interface
Test Exit Criteria	MPH shows the Student the selected release
Test Results	Every shared release is shown correctly
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 11: View Shared Release Test report table

10. Download a release

Scope	This tests the possibility for the Student to download a release belonging to another group
Test Execution	Testing from the “View shared release” page
Test Entrance Criteria	Student executes the command to view shared releases, from the Student interface
Test Exit Criteria	MPH notifies the Student that the download has been successful
Test Results	The desired release is downloaded correctly but MPH does not notify the Student about the successful operation
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 12: Download Shared Release Test report table

3.4.2.2 Professor

1. Login

Scope	This tests the login of a Professor into the MPH system
Test Execution	A professor will try to login to the MPH system opening the website and inserting his/her username and password, then clicking "Login" button.
Test Entrance Criteria	The professor must run MPH
Test Exit Criteria	MPH verify professor’s credentials and let the professor enter the system
Test Results	Test passed
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 13: Professor Login Test report table

2. Edit profile

Scope	Edit personal information
Test Execution	A professor will try to edit the personal information after logging into the MPH system
Test Entrance Criteria	The professor must run MPH
Test Exit Criteria	MPH verify professor's credentials and let the professor enter the system
Test Results	When the edit is complete the Professor Home page is shown
<i>Defect Severity</i>	<i>Low</i> If the professor wants to change password, after inserting the data he/she will get an error: "Per cambiare la password di accesso compilare correttamente i 3 campi relativi!!". Anyway the password is successfully changed in the database.
Stressed Components	Not noticeable any component stressed.

Table 14: Professor edits personal information Test report table

3. Publish a project

Scope	This tests the Professor functionality to publish a project
Test Execution	A professor will try to edit the personal information after logging into the MPH system
Test Entrance Criteria	The professor must run MPH
Test Exit Criteria	MPH notify the professor that the project was successfully created
Test Results	With attribute length too long, the request cannot be accomplished and the software crashes: the error log is available in the appendix on page 22. In the creation course summary, if the description is long enough (over 60 characters) is not well formatted.
<i>Defect Severity</i>	<i>Moderate</i> With attribute length too long, the request cannot be accomplished and the software crashes: the error log is available in the appendix on page 22. In the creation course summary, if the description is long enough (over 60 characters) is not well formatted.
Stressed Components	<i>servlet.CreaProgetto</i> as seen by the error log.

Table 15: Professor publishes a project Test report table

4. Get releases by type

Scope	This tests the possibility for the Professor to view details about a set of releases by type
Test Execution	A professor will try to get the releases by type after viewing a particular project page by clicking the option "In base al tipo di release".
Test Entrance Criteria	The professor must run MPH, access his/her profile, open the page "Visualizza Progetto", select a particular project then click on "Visualizza Release".
Test Exit Criteria	MPH let the professor view each release grouped by type.
Test Results	MPH let the professor view each release grouped by type successfully.
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 16: Professor get releases by type Test report table

5. Get releases by team

Scope	This tests the possibility for the Professor to view details about a set of releases by team
Test Execution	A professor will try to get the releases by group after viewing a particular project page by clicking the option "In base al gruppo che segue il progetto".
Test Entrance Criteria	The professor must run MPH, access his/her profile, open the page "Visualizza Progetto", select a particular project then click on "Visualizza Release".
Test Exit Criteria	MPH let the professor view each release grouped by team.
Test Results	MPH let the professor view each release grouped by team successfully.
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 17: Professor get releases by group Test report table

6. Mark a release

Scope	This tests the possibility for the Professor to evaluate and mark a release
Test Execution	A professor will try to set a mark and confirm that mark after have pressed "Fine Consegna" button for that release.
Test Entrance Criteria	The professor must run MPH, access his/her profile, open the page "Visualizza Progetto", select a particular project, click on "Visualizza Release", then select the the option "In base al tipo di release".
Test Exit Criteria	MPH notify the professor that the mark registration ended successfully.
Test Results	If the mark was performed successfully, MPH notify the user. Otherwise, nothing happens. In any case, no mail has been sent to the group team members as specified in the user manual.
<i>Defect Severity</i>	<i>Serious</i> If the professor tries to mark the releases immediately after click the "Fine Consegna", the software freezes. If the professor go back to the previous menu and then return to view releases, then if he/she tries to mark the releases finally the operation ends successfully. It is remarkable that in the RASD is not stated that in order to mark a release he/she must close the release delivery by type, so is a serious issue to deal with before releasing the software.
Stressed Components	Not noticeable any component stressed.

Table 18: Professor mark a releases Test report table

7. Download a release

Scope	Download a release
Test Execution	A professor will try to download a particular release by clicking on the blue and green icon next to the requested release name.
Test Entrance Criteria	The professor must run MPH, access his/her profile, open the page "Visualizza Progetto", select a particular project, click on "Visualizza Release", then select one visualization option.
Test Exit Criteria	MPH notify the professor that the download ended successfully.
Test Results	Test passed even with very large files to download.
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 19: Professor download a releases Test report table

8. Share a release

Scope	Share a release
Test Execution	A professor will try to share a particular release by clicking on the button "Condividi" next to the requested release name.
Test Entrance Criteria	The professor must run MPH, access his/her profile, open the page "Visualizza Progetto", select a particular project, click on "Visualizza Release", then select one visualization option.
Test Exit Criteria	MPH notify the professor that a release was shared successfully.
Test Results	MPH notify the professor that a release was shared successfully.
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 20: Professor share a release Test report table

3.4.2.3 Administrator

1. Register a new professor

Scope	Register a new professor
Test Execution	The administrator will try to create a new professor by entering his/her profile and filling the create new professor form.
Test Entrance Criteria	The professor must run MPH
Test Exit Criteria	MPH verify professor's credentials and let the professor to be registered into the system
Test Results	If the credentials are correct, the professor is registered into the system but the notification email is not sent to the professor. The email checking contains some defects explained below (http://en.wikipedia.org/wiki/Email_address taken as paradigm).
<i>Defect Severity</i>	<i>Moderate</i> If a valid email is given in the setting.txt file, the creation of a new professor freeze the system for over 5 minutes. It is still possible to enter a not valid email with spaces and other invalid symbols. If a string is too long (bigger than 1000 characters) the software crashes.
Stressed Components	Not noticeable any component stressed.

Table 21: Administrator registers a new professor Test report table

2. View Professor Profile

Scope	View Professor Profile
Test Execution	The administrator will try to view a professor profile by entering his/her profile and filling the create new professor form.
Test Entrance Criteria	The administrator must enter MPH system and his/her profile.
Test Exit Criteria	MPH let the administrator view the requested profile.
Test Results	The Administrator can view the requested profile successfully.
<i>Defect Severity</i>	<i>None</i>
Stressed Components	Not noticeable any component stressed.

Table 22: Administrator views professor profile Case Test

3. Delete professor

Scope	Delete professor
Test Execution	The administrator will try to delete a professor by entering his/her profile, entering "Visualizza profili", selecting a professor and then click on the "Elimina" button.
Test Entrance Criteria	The administrator must enter MPH system and his/her profile.
Test Exit Criteria	MPH notify the administrator that the deletion was successful.
Test Results	Professor cannot be deleted because the functionality is not implemented yet.
<i>Defect Severity</i>	<i>Serious</i> Professor cannot be deleted because the functionality is not implemented yet.
Stressed Components	Not noticeable any component stressed.

Table 23: Administrator deletes a professor Test report table

4 Final Considerations

The software has reached a good maturation point, however it is not ready to be accepted by the end-user yet due to some manageable defections that the developers could fix before the release date. There weren't implemented controls that manage situations where data inserted is too big to be stored in the database, and some functionality is still missing (but easy to implement) or malfunctioning. The developer team is also encouraged to produce a source documentation, like Javadocs, in order to understand better what the program do and how it does it without reverse engineering the entire project.

A Logs

A.1 Server Start Fail

Server Log:

```
1 Chrono:bin RAA$ ./run.sh
2 =====
3
4 JBoss Bootstrap Environment
5
6 JBOSS_HOME: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/ApplicationServer/jboss-5.1.0.GA
7
8 JAVA: java
9
10 JAVA_OPTS: -Dprogram.name=run.sh -Xms128m -Xmx512m -XX:MaxPermSize=256m -Dorg.jboss.resolver.warning=true
11             -Dsun.rmi.dgc.client.gcInterval=3600000 -Dsun.rmi.dgc.server.gcInterval=3600000
12
13 CLASSPATH: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/ApplicationServer/jboss-5.1.0.GA/bin/run.
14             jar
15 =====
16 16:49:21,588 INFO [ServerImpl] Starting JBoss (Microcontainer)...
17 16:49:21,610 INFO [ServerImpl] Release ID: JBoss [The Oracle] 5.1.0.GA (build: SVNTag=JBoss_5_1_0_GA date
18             =200905221634)
19 16:49:21,610 INFO [ServerImpl] Bootstrap URL: null
20 16:49:21,610 INFO [ServerImpl] Home Dir: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
21             ApplicationServer/jboss-5.1.0.GA
22 16:49:21,610 INFO [ServerImpl] Home URL: file:/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
23             ApplicationServer/jboss-5.1.0.GA/
24 16:49:21,611 INFO [ServerImpl] Library URL: file:/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
25             ApplicationServer/jboss-5.1.0.GA/lib/
26 16:49:21,612 INFO [ServerImpl] Patch URL: null
27 16:49:21,612 INFO [ServerImpl] Common Base URL: file:/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
28             ApplicationServer/jboss-5.1.0.GA/common/
29 16:49:21,612 INFO [ServerImpl] Common Library URL: file:/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
30             ApplicationServer/jboss-5.1.0.GA/common/lib/
31 16:49:21,612 INFO [ServerImpl] Server Name: default
32 16:49:21,613 INFO [ServerImpl] Server Base Dir: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
33             ApplicationServer/jboss-5.1.0.GA/server
34 16:49:21,613 INFO [ServerImpl] Server Base URL: file:/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
35             ApplicationServer/jboss-5.1.0.GA/server/
36 16:49:21,613 INFO [ServerImpl] Server Config URL: file:/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
37             ApplicationServer/jboss-5.1.0.GA/server/default/conf/
38 16:49:21,613 INFO [ServerImpl] Server Home Dir: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
39             ApplicationServer/jboss-5.1.0.GA/server/default
40 16:49:21,613 INFO [ServerImpl] Server Home URL: file:/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
41             ApplicationServer/jboss-5.1.0.GA/server/default/
42 16:49:21,614 INFO [ServerImpl] Server Data Dir: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
43             ApplicationServer/jboss-5.1.0.GA/server/default/data
44 16:49:21,614 INFO [ServerImpl] Server Library URL: file:/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
45             ApplicationServer/jboss-5.1.0.GA/server/default/lib/
46 16:49:21,614 INFO [ServerImpl] Server Log Dir: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
47             ApplicationServer/jboss-5.1.0.GA/server/default/log
48 16:49:21,614 INFO [ServerImpl] Server Native Dir: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
49             ApplicationServer/jboss-5.1.0.GA/server/default/tmp/native
50 16:49:21,614 INFO [ServerImpl] Server Temp Dir: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
51             ApplicationServer/jboss-5.1.0.GA/server/default/tmp
52 16:49:21,615 INFO [ServerImpl] Server Temp Deploy Dir: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
53             ApplicationServer/jboss-5.1.0.GA/server/default/tmp/deploy
54 16:49:22,621 INFO [ServerImpl] Starting Microcontainer, bootstrapURL=file:/Volumes/SharedHD/RAA/
55             SoftwareDevelopment/Workspace/ApplicationServer/jboss-5.1.0.GA/server/default/conf/bootstrap.xml
56 16:49:23,370 INFO [VFSCacheFactory] Initializing VFSCache [org.jboss.virtual.plugins.cache.CombinedVFSCache
57             ]
58 16:49:23,371 INFO [VFSCacheFactory] Using VFSCache [CombinedVFSCache[real-cache: null]]
59 16:49:23,572 INFO [CopyMechanism] VFS temp dir: /Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
60             ApplicationServer/jboss-5.1.0.GA/server/default/tmp
61 16:49:23,572 INFO [ZipEntryContext] VFS force nested jars copy-mode is enabled.
62 16:49:24,567 INFO [ServerInfo] Java version: 1.6.0_29,Apple Inc.
63 16:49:24,567 INFO [ServerInfo] Java Runtime: Java(TM) SE Runtime Environment (build 1.6.0_29-b11-402-11D50)
64 16:49:24,567 INFO [ServerInfo] Java VM: Java HotSpot(TM) 64-Bit Server VM 20.4-b02-402,Apple Inc.
65 16:49:24,567 INFO [ServerInfo] OS-System: Mac OS X 10.7.3, x86_64
66 16:49:24,590 INFO [ServerInfo] VM arguments: -Dprogram.name=run.sh -Xms128m -Xmx512m -XX:MaxPermSize=256m -
67             Dorg.jboss.resolver.warning=true -Dsun.rmi.dgc.client.gcInterval=3600000 -Dsun.rmi.dgc.server.
68             gcInterval=3600000 -Djava.endorsed.dirs=/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/
69             ApplicationServer/jboss-5.1.0.GA/lib/endorsed
70 16:49:24,627 INFO [JMXKernel] Legacy JMX core initialized
71 16:49:25,829 INFO [ProfileServiceBootstrap] Loading profile: ProfileKey@531ae81d[domain=default, server=
72             default, name=default]
73 16:49:27,129 INFO [WebService] Using RMI server codebase: http://127.0.0.1:8083/
74 16:49:30,520 INFO [NativeServerConfig] JBoss Web Services - Stack Native Core
75 16:49:30,521 INFO [NativeServerConfig] 3.1.2.GA
76 16:49:30,846 INFO [AttributeCallbackItem] Owner callback not implemented.
77 16:49:31,533 INFO [LogNotificationListener] Adding notification listener for logging mbean "jboss.system:
78             service=Logging,type=Log4jService" to server org.jboss.mx.server.MBeanServerImpl@3219ee8a[
79             defaultDomain='jboss' ]
```

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54 16:49:33,757 WARN [SaxJBossXBParser] SchemaLocation: schemaLocation value = 'http://java.sun.com/xml/ns/
    persistence' must have even number of URI's. @ vszip:/Volumes/SharedHD/RAA/SoftwareDevelopment/
    Workspace/ApplicationServer/jboss-5.1.0.GA/server/default/deploy/MPHMODULE.jar/META-INF/persistence.
    xml[4,90]
55
56
57
58 [omissis]
59
60
61
62
63 16:49:45,000 WARN [ClassLoaderManager] Unexpected error during load of:servlet.AggiungiProgetto
64 java.lang.UnsupportedClassVersionError: servlet/AggiungiProgetto : Unsupported major.minor version 51.0
65     at java.lang.ClassLoader.defineClass1(Native Method)
66     at java.lang.ClassLoader.defineClassCond(ClassLoader.java:631)
67     at java.lang.ClassLoader.defineClass(ClassLoader.java:615)
68     at org.jboss.classloader.spi.base.BaseClassLoader.access$200(BaseClassLoader.java:63)
69     at org.jboss.classloader.spi.base.BaseClassLoader$2.run(BaseClassLoader.java:572)
70     at org.jboss.classloader.spi.base.BaseClassLoader$2.run(BaseClassLoader.java:532)
71     at java.security.AccessController.doPrivileged(Native Method)
72     at org.jboss.classloader.spi.base.BaseClassLoader.loadClassLocally(BaseClassLoader.java:530)
73     at org.jboss.classloader.spi.base.BaseClassLoader.loadClassLocally(BaseClassLoader.java:507)
74     at org.jboss.classloader.spi.base.BaseDelegateLoader.loadClass(BaseDelegateLoader.java:134)
75     at org.jboss.classloader.spi.filter.FilteredDelegateLoader.loadClass(FilterDelegateLoader.java
        :131)
76     at org.jboss.classloader.spi.base.ClassLoadingTask$ThreadTask.run(ClassLoadingTask.java:452)
77     at org.jboss.classloader.spi.base.ClassLoaderManager.nextTask(ClassLoaderManager.java:251)
78     at org.jboss.classloader.spi.base.ClassLoaderManager.process(ClassLoaderManager.java:150)
79     at org.jboss.classloader.spi.base.BaseClassLoaderDomain.loadClass(BaseClassLoaderDomain.java:265)
80     at org.jboss.classloader.spi.base.BaseClassLoaderDomain.loadClass(BaseClassLoaderDomain.java:1119)
81     at org.jboss.classloader.spi.base.BaseClassLoader.loadClassFromDomain(BaseClassLoader.java:798)
82     at org.jboss.classloader.spi.base.BaseClassLoader.loadClass(BaseClassLoader.java:441)
83     at java.lang.ClassLoader.loadClass(ClassLoader.java:295)
84     at java.lang.ClassLoader.loadClass(ClassLoader.java:247)
85     at org.apache.catalina.startup.WebAnnotationSet.loadClassAnnotation(WebAnnotationSet.java:145)
86     at org.apache.catalina.startup.WebAnnotationSet.loadApplicationServletAnnotations(WebAnnotationSet.
        java:119)
87     at org.apache.catalina.startup.WebAnnotationSet.loadApplicationAnnotations(WebAnnotationSet.java:58)
88     at org.apache.catalina.startup.ContextConfig.applicationAnnotationsConfig(ContextConfig.java:297)
89     at org.apache.catalina.startup.ContextConfig.start(ContextConfig.java:1067)
90     at org.apache.catalina.startup.ContextConfig.lifecycleEvent(ContextConfig.java:261)
91     at org.apache.catalina.util.LifecycleSupport.fireLifecycleEvent(LifecycleSupport.java:117)
92     at org.apache.catalina.core.StandardContext.start(StandardContext.java:4312)
93     at org.jboss.web.tomcat.service.deployers.TomcatDeployment.performDeployInternal(TomcatDeployment.
        java:310)
94     at org.jboss.web.tomcat.service.deployers.TomcatDeployment.performDeploy(TomcatDeployment.java:142)
95     at org.jboss.web.deployers.AbstractWarDeployment.start(AbstractWarDeployment.java:461)
96     at org.jboss.web.deployers.WebModule.startModule(WebModule.java:118)
97     at org.jboss.web.deployers.WebModule.start(WebModule.java:97)
98     at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
99     at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:39)
100    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:25)
101    at java.lang.reflect.Method.invoke(Method.java:597)
102    at org.jboss.mx.interceptor.ReflectedDispatcher.invoke(ReflectedDispatcher.java:157)
103    at org.jboss.mx.server.Invocation.dispatch(Invocation.java:96)
104    at org.jboss.mx.server.Invocation.invoke(Invocation.java:88)
105    at org.jboss.mx.server.AbstractMBeanInvoker.invoke(AbstractMBeanInvoker.java:264)
106    at org.jboss.mx.server.MBeanServerImpl.invoke(MBeanServerImpl.java:668)
107    at org.jboss.system.microcontainer.ServiceProxy.invoke(ServiceProxy.java:206)
108    at $Proxy38.start(Unknown Source)
109    at org.jboss.system.microcontainer.StartStopLifecycleAction.installAction(StartStopLifecycleAction.
        java:42)
110    at org.jboss.system.microcontainer.StartStopLifecycleAction.installAction(StartStopLifecycleAction.
        java:37)
111    at org.jboss.dependency.plugins.action.SimpleControllerContextAction.simpleInstallAction(
        SimpleControllerContextAction.java:62)
112    at org.jboss.dependency.plugins.action.AccessControllerContextAction.install(
        AccessControllerContextAction.java:71)
113    at org.jboss.dependency.plugins.AbstractControllerContextActions.install(
        AbstractControllerContextActions.java:51)
114    at org.jboss.dependency.plugins.AbstractControllerContext.install(AbstractControllerContext.java
        :348)
115    at org.jboss.system.microcontainer.ServiceControllerContext.install(ServiceControllerContext.java
        :286)
116    at org.jboss.dependency.plugins.AbstractController.install(AbstractController.java:1631)
117    at org.jboss.dependency.plugins.AbstractController.incrementState(AbstractController.java:934)
118    at org.jboss.dependency.plugins.AbstractController.resolveContexts(AbstractController.java:1082)
119    at org.jboss.dependency.plugins.AbstractController.resolveContexts(AbstractController.java:984)
120    at org.jboss.dependency.plugins.AbstractController.change(AbstractController.java:822)
121    at org.jboss.dependency.plugins.AbstractController.change(AbstractController.java:553)
122    at org.jboss.system.ServiceController.doChange(ServiceController.java:688)
123    at org.jboss.system.ServiceController.start(ServiceController.java:460)
124    at org.jboss.system.deployers.ServiceDeployer.start(ServiceDeployer.java:163)
125    at org.jboss.system.deployers.ServiceDeployer.deploy(ServiceDeployer.java:99)
126    at org.jboss.system.deployers.ServiceDeployer.deploy(ServiceDeployer.java:46)
127    at org.jboss.deployers.spi.deployer.helpers.AbstractSimpleRealDeployer.internalDeploy(
        AbstractSimpleRealDeployer.java:62)
128    at org.jboss.deployers.spi.deployer.helpers.AbstractRealDeployer.deploy(AbstractRealDeployer.java
        :50)
129    at org.jboss.deployers.plugins.deployers.DeployerWrapper.deploy(DeployerWrapper.java:171)

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130         at org.jboss.deployers.plugins.deployers.DeployersImpl.doDeploy(DeployersImpl.java:1439)
131         at org.jboss.deployers.plugins.deployers.DeployersImpl.doInstallParentFirst(DeployersImpl.java:1157)
132         at org.jboss.deployers.plugins.deployers.DeployersImpl.doInstallParentFirst(DeployersImpl.java:1178)
133         at org.jboss.deployers.plugins.deployers.DeployersImpl.install(DeployersImpl.java:1098)
134         at org.jboss.dependency.plugins.AbstractControllerContext.install(AbstractControllerContext.java
            :348)
135         at org.jboss.dependency.plugins.AbstractController.install(AbstractController.java:1631)
136         at org.jboss.dependency.plugins.AbstractController.incrementState(AbstractController.java:934)
137         at org.jboss.dependency.plugins.AbstractController.resolveContexts(AbstractController.java:1082)
138         at org.jboss.dependency.plugins.AbstractController.resolveContexts(AbstractController.java:984)
139         at org.jboss.dependency.plugins.AbstractController.change(AbstractController.java:822)
140         at org.jboss.dependency.plugins.AbstractController.change(AbstractController.java:553)
141         at org.jboss.deployers.plugins.deployers.DeployersImpl.process(DeployersImpl.java:781)
142         at org.jboss.deployers.plugins.main.MainDeployerImpl.process(MainDeployerImpl.java:702)
143         at org.jboss.system.server.profileservice.repository.MainDeployerAdapter.process(MainDeployerAdapter
            .java:117)
144         at org.jboss.system.server.profileservice.repository.ProfileDeployAction.install(ProfileDeployAction
            .java:70)
145         at org.jboss.system.server.profileservice.repository.AbstractProfileAction.install(
            AbstractProfileAction.java:53)
146         at org.jboss.system.server.profileservice.repository.AbstractProfileService.install(
            AbstractProfileService.java:361)
147         at org.jboss.dependency.plugins.AbstractControllerContext.install(AbstractControllerContext.java
            :348)
148         at org.jboss.dependency.plugins.AbstractController.install(AbstractController.java:1631)
149         at org.jboss.dependency.plugins.AbstractController.incrementState(AbstractController.java:934)
150         at org.jboss.dependency.plugins.AbstractController.resolveContexts(AbstractController.java:1082)
151         at org.jboss.dependency.plugins.AbstractController.resolveContexts(AbstractController.java:984)
152         at org.jboss.dependency.plugins.AbstractController.change(AbstractController.java:822)
153         at org.jboss.dependency.plugins.AbstractController.change(AbstractController.java:553)
154         at org.jboss.system.server.profileservice.repository.AbstractProfileService.activateProfile(
            AbstractProfileService.java:306)
155         at org.jboss.system.server.profileservice.ProfileServiceBootstrap.start(ProfileServiceBootstrap.java
            :271)
156         at org.jboss.bootstrap.AbstractServerImpl.start(AbstractServerImpl.java:461)
157         at org.jboss.Main.boot(Main.java:221)
158         at org.jboss.Main$1.run(Main.java:556)
159         at java.lang.Thread.run(Thread.java:680)
160 16:49:45,024 INFO [TomcatDeployment] deploy, ctxPath=/
161 16:49:45,066 INFO [TomcatDeployment] deploy, ctxPath=/jmx-console
162 16:49:45,118 ERROR [ProfileServiceBootstrap] Failed to load profile: Summary of incomplete deployments (SEE
    PREVIOUS ERRORS FOR DETAILS):
163
164 DEPLOYMENTS IN ERROR:
165 Deployment "vfszip:/Volumes/SharedHD/RAA/SoftwareDevelopment/Workspace/ApplicationServer/jboss-5.1.0.GA/
    server/default/deploy/MPHMODULE.jar/" is in error due to the following reason(s): java.lang.
    UnsupportedClassVersionError: sessionBean/ManagerAdministratore : Unsupported major.minor version
    51.0
166
167 16:49:45,125 INFO [Http11Protocol] Starting Coyote HTTP/1.1 on http-127.0.0.1-8080
168 16:49:45,140 INFO [AjpProtocol] Starting Coyote AJP/1.3 on ajp-127.0.0.1-8009
169 16:49:45,148 INFO [ServerImpl] JBoss (Microcontainer) [5.1.0.GA (build: SVNTag=JBoss_5_1_0_GA date
    =200905221634)] Started in 23s:527ms

```

A.2 Create Project Fail

Server Log:

```

1 type Exception report
2
3 message
4
5 description The server encountered an internal error () that prevented it from fulfilling this request.
6
7 exception
8
9 javax.ejb.EJBTransactionRolledbackException: Transaction rolled back
10     org.jboss.ejb3.tx.Ejb3TxPolicy.handleEndTransactionException(Ejb3TxPolicy.java:54)
11         org.jboss.aspects.tx.TxPolicy.endTransaction(TxPolicy.java:175)
12         org.jboss.aspects.tx.TxPolicy.invokeInOurTx(TxPolicy.java:87)
13         org.jboss.aspects.tx.TxInterceptor$Required.invoke(TxInterceptor.java:190)
14         org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
15         org.jboss.aspects.tx.TxPropagationInterceptor.invoke(TxPropagationInterceptor.java:76)
16         org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
17         org.jboss.ejb3.tx.NullInterceptor.invoke(NullInterceptor.java:42)
18         org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
19         org.jboss.ejb3.security.Ejb3AuthenticationInterceptorV2.invoke(Ejb3AuthenticationInterceptorV2.java
            :186)
20         org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
21         org.jboss.ejb3.ENCPropagationInterceptor.invoke(ENCPropagationInterceptor.java:41)
22         org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
23         org.jboss.ejb3.BlockContainerShutdownInterceptor.invoke(BlockContainerShutdownInterceptor.java:67)
24         org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
25         org.jboss.aspects.currentinvocation.CurrentInvocationInterceptor.invoke(CurrentInvocationInterceptor
            .java:67)
26         org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)

```

```

27     org.jboss.ejb3.stateful.StatefulContainer.dynamicInvoke(StatefulContainer.java:571)
28     org.jboss.ejb3.remoting.IsLocalInterceptor.invokeLocal(IsLocalInterceptor.java:85)
29     org.jboss.ejb3.remoting.IsLocalInterceptor.invoke(IsLocalInterceptor.java:72)
30     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
31     org.jboss.aspects.remoting.PojiProxy.invoke(PojiProxy.java:62)
32     $Proxy301.invoke(Unknown Source)
33     org.jboss.ejb3.proxy.impl.handler.session.SessionProxyInvocationHandlerBase.invoke(
        SessionProxyInvocationHandlerBase.java:207)
34     org.jboss.ejb3.proxy.impl.handler.session.SessionProxyInvocationHandlerBase.invoke(
        SessionProxyInvocationHandlerBase.java:164)
35     $Proxy305.finalizzaProgetto(Unknown Source)
36     servlet.CreaProgetto.doGet(CreaProgetto.java:33)
37     javax.servlet.http.HttpServlet.service(HttpServlet.java:617)
38     javax.servlet.http.HttpServlet.service(HttpServlet.java:717)
39     org.jboss.web.tomcat.filters.ReplyHeaderFilter.doFilter(ReplyHeaderFilter.java:96)
40
41     root cause
42
43     javax.transaction.RollbackException: [com.arjuna.ats.internal.jta.transaction.arjunacore.commitwhenaborted]
44     [com.arjuna.ats.internal.jta.transaction.arjunacore.commitwhenaborted] Could not commit transaction.
45     com.arjuna.ats.internal.jta.transaction.arjunacore.TransactionImple.commitAndDisassociate(
        TransactionImple.java:1435)
46     com.arjuna.ats.internal.jta.transaction.arjunacore.BaseTransaction.commit(BaseTransaction.java:137)
47     com.arjuna.ats.jbosstx.BaseTransactionManagerDelegate.commit(BaseTransactionManagerDelegate.java
        :75)
48     org.jboss.aspects.tx.TxPolicy.endTransaction(TxPolicy.java:170)
49     org.jboss.aspects.tx.TxPolicy.invokeInOurTx(TxPolicy.java:87)
50     org.jboss.aspects.tx.TxInterceptor$Required.invoke(TxInterceptor.java:190)
51     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
52     org.jboss.aspects.tx.TxPropagationInterceptor.invoke(TxPropagationInterceptor.java:76)
53     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
54     org.jboss.ejb3.tx.NullInterceptor.invoke(NullInterceptor.java:42)
55     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
56     org.jboss.ejb3.security.Ejb3AuthenticationInterceptorv2.invoke(Ejb3AuthenticationInterceptorv2.java
        :186)
57     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
58     org.jboss.ejb3.ENCPropagationInterceptor.invoke(ENCPropagationInterceptor.java:41)
59     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
60     org.jboss.ejb3.BlockContainerShutdownInterceptor.invoke(BlockContainerShutdownInterceptor.java:67)
61     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
62     org.jboss.aspects.currentinvocation.CurrentInvocationInterceptor.invoke(CurrentInvocationInterceptor
        .java:67)
63     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
64     org.jboss.ejb3.stateful.StatefulContainer.dynamicInvoke(StatefulContainer.java:571)
65     org.jboss.ejb3.remoting.IsLocalInterceptor.invokeLocal(IsLocalInterceptor.java:85)
66     org.jboss.ejb3.remoting.IsLocalInterceptor.invoke(IsLocalInterceptor.java:72)
67     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
68     org.jboss.aspects.remoting.PojiProxy.invoke(PojiProxy.java:62)
69     $Proxy301.invoke(Unknown Source)
70     org.jboss.ejb3.proxy.impl.handler.session.SessionProxyInvocationHandlerBase.invoke(
        SessionProxyInvocationHandlerBase.java:207)
71     org.jboss.ejb3.proxy.impl.handler.session.SessionProxyInvocationHandlerBase.invoke(
        SessionProxyInvocationHandlerBase.java:164)
72     $Proxy305.finalizzaProgetto(Unknown Source)
73     servlet.CreaProgetto.doGet(CreaProgetto.java:33)
74     javax.servlet.http.HttpServlet.service(HttpServlet.java:617)
75     javax.servlet.http.HttpServlet.service(HttpServlet.java:717)
76     org.jboss.web.tomcat.filters.ReplyHeaderFilter.doFilter(ReplyHeaderFilter.java:96)
77
78     root cause
79
80     java.lang.Throwable: setRollbackOnly called from:
81     com.arjuna.ats.internal.jta.transaction.arjunacore.TransactionImple.setRollbackOnly(TransactionImple
        .java:392)
82     com.arjuna.ats.internal.jta.transaction.arjunacore.BaseTransaction.setRollbackOnly(BaseTransaction.
        java:195)
83     com.arjuna.ats.jbosstx.BaseTransactionManagerDelegate.setRollbackOnly(
        BaseTransactionManagerDelegate.java:123)
84     org.hibernate.ejb.AbstractEntityManagerImpl.markAsRollback(AbstractEntityManagerImpl.java:421)
85     org.hibernate.ejb.AbstractEntityManagerImpl.throwPersistenceException(AbstractEntityManagerImpl.java
        :576)
86     org.hibernate.ejb.AbstractEntityManagerImpl.throwPersistenceException(AbstractEntityManagerImpl.java
        :614)
87     org.hibernate.ejb.AbstractEntityManagerImpl$1.beforeCompletion(AbstractEntityManagerImpl.java:513)
88     com.arjuna.ats.internal.jta.resources.arjunacore.SynchronizationImple.beforeCompletion(
        SynchronizationImple.java:101)
89     com.arjuna.ats.arjuna.coordinator.TwoPhaseCoordinator.beforeCompletion(TwoPhaseCoordinator.java:269)
90     com.arjuna.ats.arjuna.coordinator.TwoPhaseCoordinator.end(TwoPhaseCoordinator.java:89)
91     com.arjuna.ats.arjuna.AtomicAction.commit(AtomicAction.java:177)
92     com.arjuna.ats.internal.jta.transaction.arjunacore.TransactionImple.commitAndDisassociate(
        TransactionImple.java:1423)
93     com.arjuna.ats.internal.jta.transaction.arjunacore.BaseTransaction.commit(BaseTransaction.java:137)
94     com.arjuna.ats.jbosstx.BaseTransactionManagerDelegate.commit(BaseTransactionManagerDelegate.java
        :75)
95     org.jboss.aspects.tx.TxPolicy.endTransaction(TxPolicy.java:170)
96     org.jboss.aspects.tx.TxPolicy.invokeInOurTx(TxPolicy.java:87)
97     org.jboss.aspects.tx.TxInterceptor$Required.invoke(TxInterceptor.java:190)
98     org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
99     org.jboss.aspects.tx.TxPropagationInterceptor.invoke(TxPropagationInterceptor.java:76)
100    org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)

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```

101 org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
102 org.jboss.ejb3.security.Ejb3AuthenticationInterceptorv2.invoke(Ejb3AuthenticationInterceptorv2.java
    :186)
103 org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
104 org.jboss.ejb3.ENCPropagationInterceptor.invoke(ENCPropagationInterceptor.java:41)
105 org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
106 org.jboss.ejb3.BlockContainerShutdownInterceptor.invoke(BlockContainerShutdownInterceptor.java:67)
107 org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
108 org.jboss.aspects.currentinvocation.CurrentInvocationInterceptor.invoke(CurrentInvocationInterceptor
    .java:67)
109 org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
110 org.jboss.ejb3.stateful.StatefulContainer.dynamicInvoke(StatefulContainer.java:571)
111 org.jboss.ejb3.remoting.IsLocalInterceptor.invokeLocal(IsLocalInterceptor.java:85)
112 org.jboss.ejb3.remoting.IsLocalInterceptor.invoke(IsLocalInterceptor.java:72)
113 org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
114 org.jboss.aspects.remoting.PojiProxy.invoke(PojiProxy.java:62)
115 $Proxy301.invoke(Unknown Source)
116 org.jboss.ejb3.proxy.impl.handler.session.SessionProxyInvocationHandlerBase.invoke(
    SessionProxyInvocationHandlerBase.java:207)
117 org.jboss.ejb3.proxy.impl.handler.session.SessionProxyInvocationHandlerBase.invoke(
    SessionProxyInvocationHandlerBase.java:164)
118 $Proxy305.finalizzaProgetto(Unknown Source)
119 servlet.CreaProgetto.doGet(CreaProgetto.java:33)
120 javax.servlet.http.HttpServlet.service(HttpServlet.java:617)
121 javax.servlet.http.HttpServlet.service(HttpServlet.java:717)
122 org.jboss.web.tomcat.filters.ReplyHeaderFilter.doFilter(ReplyHeaderFilter.java:96)
123
124 note The full stack trace of the root cause is available in the JBoss Web/2.1.3.GA logs.

```

A.3 Upload a Release Fail

In the webpage background, written in white, is possible to see:

```

Errore: javax.persistence.PersistenceException: org.hibernate.exception.DataException: could not insert: [
entityBean.FileRelease]

```

Server Log:

```

1 11:20:18,721 WARN [LocalManagedConnectionFactory] exception trying to create exception sorter (disabling):
2 java.lang.ClassNotFoundException: org.jboss.resource.adapter.jdbc.vendor.MySQLExceptionSorter from
    BaseClassLoader@20ba62{VFSClassLoaderPolicy@acb798{name=vfszip:/home/ale/jboss/server/default/deploy/
    MPMODULE.jar/ domain=ClassLoaderDomain@110b640{name=DefaultDomain parentPolicy=BEFORE parent=org.
    jboss.bootstrap.NoAnnotationURLClassLoader@1e97676} roots=[MemoryContextHandler@21594478[path=
    context=vfsmemory://3j001-9xuan9-gjwz9r7-1-gjxOkux-26 real=vfsmemory://3j001-9xuan9-gjwz9r7-1-
    gjxOkux-26], DelegatingHandler@13664069[path=MPMODULE.jar context=file:/home/ale/jboss/server/
    default/deploy/ real=file:/home/ale/jboss/server/default/deploy/MPMODULE.jar]} delegates=null
    exported=[entityBean, Test, exception, sessionBean, META-INF, util] <IMPORT-ALL>NON_EMPTY}}
3 at org.jboss.classloader.spi.base.BaseClassLoader.loadClass(BaseClassLoader.java:448)
4 at java.lang.ClassLoader.loadClass(ClassLoader.java:266)
5 at org.jboss.resource.adapter.jdbc.BaseWrapperManagedConnectionFactory.isExceptionFatal(
    BaseWrapperManagedConnectionFactory.java:534)
6 at org.jboss.resource.adapter.jdbc.BaseWrapperManagedConnection.connectionError(
    BaseWrapperManagedConnection.java:376)
7 at org.jboss.resource.adapter.jdbc.WrappedConnection.checkException(WrappedConnection.java:865)
8 at org.jboss.resource.adapter.jdbc.WrappedStatement.checkException(WrappedStatement.java:852)
9 at org.jboss.resource.adapter.jdbc.WrappedPreparedStatement.executeUpdate(WrappedPreparedStatement.
    java:369)
10 at org.hibernate.id.IdentityGenerator$GetGeneratedKeysDelegate.executeAndExtract(IdentityGenerator.
    java:94)
11 at org.hibernate.id.insert.AbstractReturningDelegate.performInsert(AbstractReturningDelegate.java
    :57)
12 at org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:2186)
13 at org.hibernate.persister.entity.AbstractEntityPersister.insert(AbstractEntityPersister.java:2666)
14 at org.hibernate.action.EntityIdentityInsertAction.execute(EntityIdentityInsertAction.java:71)
15 at org.hibernate.engine.ActionQueue.execute(ActionQueue.java:279)
16 at org.hibernate.event.def.AbstractSaveEventListener.performSaveOrReplicate(
    AbstractSaveEventListener.java:321)
17 at org.hibernate.event.def.AbstractSaveEventListener.performSave(AbstractSaveEventListener.java:204)
18 at org.hibernate.event.def.AbstractSaveEventListener.saveWithGeneratedId(AbstractSaveEventListener.
    java:130)
19 at org.hibernate.event.EJB3MergeEventListener.saveWithGeneratedId(EJB3MergeEventListener.java
    :43)
20 at org.hibernate.event.def.DefaultMergeEventListener.entityIsTransient(DefaultMergeEventListener.
    java:238)
21 at org.hibernate.event.def.DefaultMergeEventListener.onMerge(DefaultMergeEventListener.java:170)
22 at org.hibernate.impl.SessionImpl.fireMerge(SessionImpl.java:714)
23 at org.hibernate.impl.SessionImpl.merge(SessionImpl.java:696)
24 at org.hibernate.engine.CascadingAction$6.cascade(CascadingAction.java:268)
25 at org.hibernate.engine.Cascade.cascadeToOne(Cascade.java:291)
26 at org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:239)
27 at org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:192)
28 at org.hibernate.engine.Cascade.cascadeCollectionElements(Cascade.java:319)
29 at org.hibernate.engine.Cascade.cascadeCollection(Cascade.java:265)
30 at org.hibernate.engine.Cascade.cascadeAssociation(Cascade.java:242)
31 at org.hibernate.engine.Cascade.cascadeProperty(Cascade.java:192)

```



```

32         at org.hibernate.engine.Cascade.cascade(Cascade.java:153)
33         at org.hibernate.event.def.AbstractSaveEventListener.cascadeAfterSave(AbstractSaveEventListener.java
34             :479)
35         at org.hibernate.event.def.DefaultMergeEventListener.entityIsTransient(DefaultMergeEventListener.
36             java:246)
37         at org.hibernate.event.def.DefaultMergeEventListener.onMerge(DefaultMergeEventListener.java:170)
38         at org.hibernate.event.def.DefaultMergeEventListener.onMerge(DefaultMergeEventListener.java:81)
39         at org.hibernate.impl.SessionImpl.fireMerge(SessionImpl.java:704)
40         at org.hibernate.impl.SessionImpl.merge(SessionImpl.java:688)
41         at org.hibernate.impl.SessionImpl.merge(SessionImpl.java:692)
42         at org.hibernate.ejb.AbstractEntityManagerImpl.merge(AbstractEntityManagerImpl.java:235)
43         at org.jboss.jpa.tx.TransactionScopedEntityManager.merge(TransactionScopedEntityManager.java:193)
44         at sessionBean.UploadReleaseBean.finalizza(UploadReleaseBean.java:115)
45         at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
46         at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:57)
47         at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
48         at java.lang.reflect.Method.invoke(Method.java:616)
49         at org.jboss.aop.joinpoint.MethodInvocation.invokeTarget(MethodInvocation.java:122)
50         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:111)
51         at org.jboss.ejb3.EJBContainerInvocationWrapper.invokeNext(EJBContainerInvocationWrapper.java:69)
52         at org.jboss.ejb3.interceptors.aop.InterceptorSequencer.invoke(InterceptorSequencer.java:73)
53         at org.jboss.ejb3.interceptors.aop.InterceptorSequencer.aroundInvoke(InterceptorSequencer.java:59)
54         at sun.reflect.GeneratedMethodAccessor285.invoke(Unknown Source)
55         at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
56         at java.lang.reflect.Method.invoke(Method.java:616)
57         at org.jboss.aop.advice.PerJoinpointAdvice.invoke(PerJoinpointAdvice.java:174)
58         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
59         at org.jboss.ejb3.interceptors.aop.InvocationContextInterceptor.fillMethod(
60             InvocationContextInterceptor.java:72)
61         at org.jboss.aop.advice.org.jboss.ejb3.interceptors.aop.
62             InvocationContextInterceptor_z_fillMethod_20211730.invoke(
63                 InvocationContextInterceptor_z_fillMethod_20211730.java)
64         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
65         at org.jboss.ejb3.interceptors.aop.InvocationContextInterceptor.setup(InvocationContextInterceptor.
66             java:88)
67         at org.jboss.aop.advice.org.jboss.ejb3.interceptors.aop.
68             InvocationContextInterceptor_z_setup_20211730.invoke(
69                 InvocationContextInterceptor_z_setup_20211730.java)
70         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
71         at org.jboss.ejb3.connectionmanager.CachedConnectionInterceptor.invoke(CachedConnectionInterceptor.
72             java:62)
73         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
74         at org.jboss.ejb3.entity.ExtendedPersistenceContextPropagationInterceptor.invoke(
75             ExtendedPersistenceContextPropagationInterceptor.java:60)
76         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
77         at org.jboss.ejb3.entity.TransactionScopedEntityManagerInterceptor.invoke(
78             TransactionScopedEntityManagerInterceptor.java:56)
79         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
80         at org.jboss.ejb3.AllowedOperationsInterceptor.invoke(AllowedOperationsInterceptor.java:47)
81         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
82         at org.jboss.ejb3.tx.NullInterceptor.invoke(NullInterceptor.java:42)
83         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
84         at org.jboss.ejb3.stateful.StatefulInstanceInterceptor.invoke(StatefulInstanceInterceptor.java:81)
85         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
86         at org.jboss.aspects.tx.TxPolicy.invokeInOurTx(TxPolicy.java:79)
87         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
88         at org.jboss.aspects.tx.TxInterceptor$Required.invoke(TxInterceptor.java:190)
89         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
90         at org.jboss.aspects.tx.TxPropagationInterceptor.invoke(TxPropagationInterceptor.java:76)
91         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
92         at org.jboss.ejb3.tx.NullInterceptor.invoke(NullInterceptor.java:42)
93         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
94         at org.jboss.ejb3.security.Ejb3AuthenticationInterceptorv2.invoke(Ejb3AuthenticationInterceptorv2.
95             java:186)
96         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
97         at org.jboss.ejb3.ENCPropagationInterceptor.invoke(ENCPropagationInterceptor.java:41)
98         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
99         at org.jboss.ejb3.BlockContainerShutdownInterceptor.invoke(BlockContainerShutdownInterceptor.java
100             :67)
101         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
102         at org.jboss.aspects.currentinvocation.CurrentInvocationInterceptor.invoke(
103             CurrentInvocationInterceptor.java:67)
104         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
105         at org.jboss.ejb3.stateful.StatefulContainer.dynamicInvoke(StatefulContainer.java:571)
106         at org.jboss.ejb3.remoting.IsLocalInterceptor.invokeLocal(IsLocalInterceptor.java:85)
107         at org.jboss.ejb3.remoting.IsLocalInterceptor.invoke(IsLocalInterceptor.java:72)
108         at org.jboss.aop.joinpoint.MethodInvocation.invokeNext(MethodInvocation.java:102)
109         at org.jboss.aspects.remoting.PojoProxy.invoke(PojoProxy.java:62)
110         at $Proxy301.invoke(Unknown Source)
111         at org.jboss.ejb3.proxy.impl.handler.session.SessionProxyInvocationHandlerBase.invoke(
112             SessionProxyInvocationHandlerBase.java:207)
113         at org.jboss.ejb3.proxy.impl.handler.session.SessionProxyInvocationHandlerBase.invoke(
114             SessionProxyInvocationHandlerBase.java:164)
115         at $Proxy307.finalizza(Unknown Source)
116         at servlet.UploadRelease.doPost(UploadRelease.java:101)
117         at javax.servlet.http.HttpServlet.service(HttpServlet.java:637)
118         at javax.servlet.http.HttpServlet.service(HttpServlet.java:717)
119         at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:290)
120         at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)
121         at org.jboss.web.tomcat.filters.ReplyHeaderFilter.doFilter(ReplyHeaderFilter.java:96)
122         at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:235)
123         at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:206)

```

```

107         at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:235)
108         at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:191)
109         at org.jboss.web.tomcat.security.SecurityAssociationValve.invoke(SecurityAssociationValve.java:190)
110         at org.jboss.web.tomcat.security.JaccContextValve.invoke(JaccContextValve.java:92)
111         at org.jboss.web.tomcat.security.SecurityContextEstablishmentValve.process(
            SecurityContextEstablishmentValve.java:126)
112         at org.jboss.web.tomcat.security.SecurityContextEstablishmentValve.invoke(
            SecurityContextEstablishmentValve.java:70)
113         at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:127)
114         at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:102)
115         at org.jboss.web.tomcat.service.jca.CachedConnectionValve.invoke(CachedConnectionValve.java:158)
116         at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:109)
117         at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:330)
118         at org.apache.coyote.http11.Http11Processor.process(Http11Processor.java:829)
119         at org.apache.coyote.http11.Http11Protocol$Http11ConnectionHandler.process(Http11Protocol.java:598)
120         at org.apache.tomcat.util.net.JIoEndpoint$Worker.run(JIoEndpoint.java:447)
121         at java.lang.Thread.run(Thread.java:679)
122 11:20:18,827 WARN [JDBCExceptionReporter] SQL Error: 1406, SQLState: 22001
123 11:20:18,827 ERROR [JDBCExceptionReporter] Data truncation: Data too long for column 'Descrizione' at row 1

```