



Politecnico di Milano

Facoltà di Ingegneria dell'Informazione

Engineering Software 2 Project

MPH

Manage Project Homework
Testing

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What works bad

It has been tested the application developed by Deramo(<http://mph-dn-en-deramo.origo.ethz.ch>).

Below the problems and the disjointednesses found both in implementation and in documentation.

Inconsistencies between RASD and implementation

- a group can be composed at most from only two members, not also three, differently from what it is specified in the RASD.
- when adding a new deliverable to a project it is not requested a “type” assignment.

Moreover in Alloy description:

- it is stated that it could not exist a project without deliverables, but in the implementation it is allowed to have a project without any deliverable.
- there is no control on the correctness of the dates between the project deadline and the deliverable one.

Inconsistencies between DD and implementation

- in the implementation it has been defined an entity “FinishedDeliverableObject”, which is not present in the document design.

Installation problems

- some libraries are linked to a wrong path so it is impossible to run the system. It is necessary to download them.
- **There are 3 mistakes in code**, in specific about a casting from a query result to an **int**. To make the system run it was necessary to fix it, changing the type from int to Integer.

Consideration during execution

- the navigation between pages is not user-friendly, for example when professor selects the manage finished deliverables per type and selects a deliverable he can only download files or logout, without the chance to return back.
- **It is impossible to upload any kind of files.**
We had to insert fake “FinishedDeliverable” and “FinishedDeliverableObject” to test functionalities regarding uploaded files. For this reason there is no chance to test the functionality of “downloading of file”.
- On the date format there is a control only on the field day and month, but not on the year. If it is input a value with more than 4 digit in the field year, the system crashes.
- When adding a new deliverable if the user keep inserting an invalid date the system crashes.
- If it is input characters instead of number in the form regarding the date of a deliverable, the system crashes.
- When adding a new deliverable if as month it is input “12”, the system adds it correctly but

it displays “0” instead of “12”.

- Although it is described properly in the installation manual, it is not intuitive start the application from a specific servlet class(Start.java).
- When a student wants to add a new member to his group, in that page if he doesn't select anything(there is no chance to return back) and clicks “Join”, the application goes down.
- If there are no students registered and a professor,who is logged, decides to click on "manage student works", it is displayed a blank page.

What works good

Below the functionalities properly provided by the system:

As specified in the documentation(Rasd,Design document and installation manual):

- there is a preinserted special user,admin, who can add a professor or simply reset the password of any kind of user.
- At the first login a professor has to leave the password field blank and the system asks to input his password later.
- After having logged in, a professor can add a new project and define one or more deliverables for that project.
- A professor can properly display the files uploaded by students.
- A student can properly create his/her account and if there is some published project ,he/she is subscribed by default and can display the list of project in his/her profile.
- A student can create a group of at most 2 members correctly.