
RUT - Development handbook

2.12 RUT Project web site with PHP v 3.1

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Abstract

To carry out a programming project involves a lot of paper work and things to keep in mind. If the group is allowed to report time and print jobs via a project web site this makes the project more efficient with the administration and the project group can focus more on the project assignment.

This RUT includes the most fundamental for an interactive project web site with support for login handling, time report handling and handling of print jobs. All source code is available and free to use according to the GPL (GNU General Public Licence).

1 Field of application

This system allows a user familiar to the very common Linux + Apache + MySQL + PHP -combination to easily set up and operate a system for registering time and paper for a programming project. Thought and effort has been placed on the usability of the system, trying to make the user a natural center of the application.

2 Prerequisites

This chapter describes necessary tools and software to setup, manage and use the code presented in this document. You will need the following:

- Web server, Apache is recommended
- PHP HyperText Preprocessor (4.3.x)
- MySQL-database (4.x)
- The software described in this document, PUMA-tidsrapp.

See references for locations where this software is available.

3 Realization

This chapter contains information about how to install and setup the system.

3.1 Installation

- Retrieve the latest version of the software.
- Unpack the software with

```
tar -xzvf puma-tidsrapp-x.y.tar.gz
```

in the directory where you wish to host the application (a folder named puma-tidsrapp-x.y is created).

Point your browser to <http://www.yourdomain.tld/puma-tidsrapp-x.y/install.php> or wherever appropriate depending on your configuration.

- Follow the instructions given. Be prepared to either create a new user with a database in MySQL or have your MySQL-root-password handy.

Upon success you have successfully installed PUMA-tidsrapp.

3.2 General information

There are three levels of users in the system; administrator, project leader and member.

Member

Members can register their used time and printed papers. They are also allowed to view reports in the same project.

Project leader

Project leaders have the same privileges as a member but can also approve and terminate membership from a certain project. He or she is also capable of editing the different phases of a project.

Administrator

Administrators have the same privileges as a project leader but on all projects. Only trusted members should be given administrator privileges since they also are capable of editing everyone's registered times and papers.

3.3 Preparing the system for usage

The installed system comes without any data. To set up a project, the system requires a member of the PUM-group to create an account and create a project. This is done from the first menu in the system. Anyone that creates a project is automatically made project leader of this project. Afterwards the project phases should be made. It's possible to later change names of the phases, but atleast one should be made immediately.

3.4 Common tasks

Entering data

Adding entries is quite straightforward, click the links "tid" or "papper" which opens the use the popup-window that gives access to enter data.

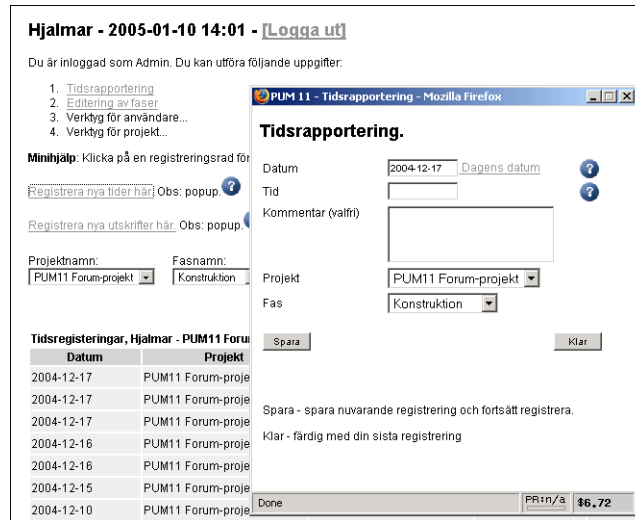


Figure 1. Screenshot of the window where one enters data.

The system is easy enough to use. “Datum”, “Tid” and “Beskrivning” is entered by the user. “Fas” and “Projekt” is automatically chosen from the last entered values. Datum is always set to the last entered date, it is updated with todays date by clicking the “Dagens datum”-link.

Changing data

It is possible to change or even delete data. To delete an entry, check the corresponding checkbox and click “ta bort” below the entries.

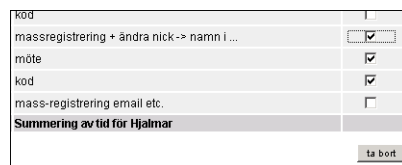


Figure 2. Screenshot of deleting entries.

If you wish to change an entry (or view it), simply click it in the overview.

Reports

To generate a report, use the "Tidsrapportering"-link on the page's top. The reports are broken down in three different categories, months, weeks and phases. It's easy to summarize how much time/paper different members have used up during a certain period.

Hjalmar - 2005-01-10 14:01 - [Logga ut]

Du är inloggad som Admin. Du kan utföra följande uppgifter:

Veckovis
 Välj rapporttyp
 Dagligen ändag-Måndag
 Veckovis
 Fasligen

	Daniel	Edvard	Erik	Fredrik	Helena	Henrik	Hjalmar	Summa	
52	5.00		2.75		5.00			12.75	
51	13.50		9.50				11.00	34	
50	8.50	3.00	15.50	4.00	17.50	30.75	3.50	82.75	
49	10.50	30.00	13.00	16.00	32.00	21.25	13.00	135.75	
48	33.50	22.00	8.00	8.75	17.25	4.00	2.00	106.5	
47	19.00	14.25	8.50	11.50	19.50	12.75	8.75	24.75	119
46	19.50	16.50	3.00	3.75	14.75	1.75	17.50	13.75	90.5
45	30.50	21.00	10.00	3.25	30.00	14.00	8.00	24.00	140.75
44	15.00	13.00	26.00	9.75	33.50	7.00	17.75	1.50	123.5
43	18.00	5.00	3.00		14.00		7.50		47.5
42	12.00	2.50	6.00	1.25	8.75	1.00	1.00	2.00	34.5
41	6.00	5.50	3.00	12.50	15.00	13.00	4.25	10.00	69.25
40	4.00	13.00	3.00	14.25	3.00	7.00	18.00	33.50	95.75
39	12.50	7.75	4.00	17.50	7.50	6.25	17.25	14.00	86.75
38	9.00	15.25	28.00	30.00	11.00	14.00	22.15	12.00	141.4
37	11.00	9.00	34.00	15.00	9.00	12.50	15.35	4.50	110.35
36	6.00	14.50	32.00	11.00	9.00	30.50	24.00	14.50	141.5
35					13.00	9.00			22
02	3.00								3
01	3.00		6.00		10.50				19.5
00				12.00	8.00				20
Summa	239.5	192.25	181.5	188.25	208.25	209.75	217	200.5	1637

Figure 3. Screenshot showing a report.

4 Results

The result of using this web site should hopefully be simplified routines according to time reports, information sharing and decrease the time spent on paper work.

5 Templates and forms

There is no need of templates or forms to use this process. To add more content to the web site its recommended to study the existing sources for additional development information.

6 Verification of results

Appropriate activities for quality manager or the project leader could be:

- At regular interval control the time reports and that every project member reports properly.
- Check the project members passwords so they are chosen with care and not easy to guess, for example not the name of the group.

The web site administrator should also control so the web site is user friendly and it fulfil it's purpose. This can be accomplished via discussions at the group meetings.

7 Examples with explanations

There are no external examples at this time.

8 Solutions to common problems

No common problems has yet been identified.

9 Adjustment to the PUM-course

This system was written as a general system for organizing projects. The PUM-course requires papers to be registered. This feature has been added to comply.

10 Measurement of the process

10.1 Resource measurement

Resource measurement needed for this process is the time that it takes to create and manage the system.

10.2 Product measurement

The aim of this process is to save time assigned to the administration work. The time what will be saved is difficult to measure, because the time spent on ordinary paperwork is unknown.

10.3 Forms for collection of data

The time spent on this system can be saved as a separate field in the time reporting system, and then all time spent can be easily measured.

11 History of the process

Version	Datum	Anmärkning	Författare
1.0	02-06-04	First version.	David Björkevik davidb@lysator.liu.se
1.1	03-10-14	Translation of the document.	Anders Haglund andha859@student.liu.se
1.2	03-12-20	Review	Anders Haglund andha859@student.liu.se

Version	Datum	Anmärkning	Författare
2.0	03-12-20	Translated and corrected	Anders Haglund andha859@student.liu.se
3.0	05-01-10	Introduced PUMA-tidsrapp.	Hjalmar Wåhlander hjawa376@student.liu.se
3.1	05-01-13	Corrected after comments	Hjalmar Wåhlander hjawa376@student.liu.se

12 Changes not yet attended to

Changes not yet attended to are:

- Translate the code and database since they include swedish words. They follow no code standard.
- Measure time and paper spent for a group who not use this web site and compare with a group that use it.

13 References

13.1 Method description

[1] MySQL downloads and documentation
URL: <http://www.mysql.com/>

[2] PHP downloads and documentation
URL: <http://www.php.net/>

[3] Apache downloads and documentation
URL: <http://httpd.apache.org/>

[4] Online system and latest sourcecode
URL: <http://puma-tidsrapp.mjoelkbar.net/>

13.2 Method evaluation

No evaluation was found.

References
