

Hi, I had some problems with graphviz. The problems seems to be that I wanted to use integer numbers (ID's). Changing it to VARCHAR-type (names instead of ID's), the problem was solved.

Below, the code of a first 'working' version of the project management. If someone has some ideas about features which should be included, please don't hesitate to let me know... Things start to work out fine now. Oh yeah, there might be a better way for date and time calculations and some MySQL-commands. Don't hesitate to let me know...

Very important right now: the project has to start with only 1 task and end with 1 task. Moreover, the starting time of that task has to be, for the start of the calculations, initially be set lower than all other starting times/dates. This behaviour may change in the future, once I decide how to do it the best way.

greetz,
Kurt.

MySQL databases

```
CREATE TABLE `tiki_projects` ( `projectID` int(14) NOT NULL auto_increment, `projectName` varchar(80) NOT NULL default '', `description` varchar(250) default NULL, `start` datetime NOT NULL default '0000-00-00 00:00:00', `finish` datetime NOT NULL default '0000-00-00 00:00:00', PRIMARY KEY (`projectID`), UNIQUE KEY `projectName` (`projectName`) ) TYPE=MyISAM AUTO_INCREMENT; CREATE TABLE `tiki_projects_tasks` ( `projectID` int(14) NOT NULL default '0', `taskID` int(14) NOT NULL auto_increment, `taskName` varchar(80) NOT NULL default '', `description` varchar(250) default NULL, `ES` datetime NOT NULL default '0000-00-00 00:00:00', `LS` datetime NOT NULL default '0000-00-00 00:00:00', `ECT` time default '00:00:00', `ECT_pes` time default NULL, `ECT_opt` time default NULL, `crash_ECT` time default NULL, `EF` datetime NOT NULL default '0000-00-00 00:00:00', `LF` datetime NOT NULL default '0000-00-00 00:00:00', `activityslack` time default '00:00:00', `est_cost` float default NULL, `crash_cost` float default NULL, PRIMARY KEY (`taskID`), UNIQUE KEY `taskName` (`taskName`), KEY `projectID` (`projectID`) ) TYPE=MyISAM AUTO_INCREMENT; CREATE TABLE `tiki_projects_tasks_predecessors` ( `taskID` int(14) NOT NULL default '0', `predecessorID` int(14) NOT NULL default '0', PRIMARY KEY (`taskID`, `predecessorID`) ) TYPE=MyISAM;
```

./lib/project/datetime.lib.php

```
function date_subdate($date1, $date2) { $diffseconds = strtotime($date1) - strtotime($date2); $days = floor($diffseconds/(24*3600)); $hours = floor(($diffseconds % 24*3600)/24); $minutes = floor(($diffseconds % 3600)/60); $seconds = $diffseconds % 60; return $days.'  
' . $hours . ':' . $minutes . ':' . $seconds; } function timestrtohour($time) { list($hour, $minute, $second) =  
split("[:/-]", $time); $hour = $hour + $minute/60 + $second/3600; return $hour; } function  
hourotimestr($hour) { $min = ($hour - floor($hour))*60; $sec = ($min - floor($min))*60; return  
floor($hour) . ':' . floor($min) . ':' . floor($sec); } ?>
```

./lib/project/project_graphlib.php
