

ITWS Software Development

Homework 4

Practice on Software Project Management Tools

Demonstration Due on Class, March 20, Tuesday

Purpose

This homework is to practice the tools of software project management and to prepare your final project management. You could work with a group up to three members but everyone needs to have the tools installed/setup. The class will suggest several tools, but you have options to choose different ones (since there are so many online).

Requirements

1. Install or setup online the following tools:
 - 1.1 Version control system. You can choose to use a distributed or a centralized one.
 - 1.2 Requirement/task management. The tool(s) should be able to perform the following functions:
 - 1.2.1 Create project
 - 1.2.2 Create task categories
 - 1.2.3 Create task list for the project
 - 1.2.4 Link tasks' dependency
 - 1.2.5 Include people to the project
 - 1.2.6 Assign tasks to different roles
 - 1.2.7 Define milestones
 - 1.2.8 Create Gantt charts to show tasks, dependency, schedules, and milestones
 - 1.2.9 Generate the burn down chart to show the work progress velocity
 - 1.2.10 Control task flow (task creation, task status update, different roles creation, such as management, development, testing, etc.)

You are encouraged to explore more features that a tool may have, such as assign task's priority, email, file upload/attachment, team communication, etc.

- 1.3 Bug tracking
 - 1.3.1 Log bugs
 - 1.3.2 Track bugs
2. Apply the tools:
 - 2.1 Implement all features listed in section 1.2 and 1.3 above.
 - 2.2 Create repository, check in/out code to/from working copy.
 - 2.3 Branch and merge your code. (5% extra credit)
 - 2.4 Eventually, you want to use the tools to manage your final project. At this time, you can use any software project examples and define any kind of tasks for the learning purpose.

3. Demonstrate your tool implementation in the class on the due date.
4. Submission
Submit a report to document your work, and the examples with screenshots. Your report should contain enough information for others to repeat or evaluate your work from installation to application. Please write your report in well-organized structure with a table of content.

Notes

- You are encouraged to explore different tools.
- You are encouraged to continue using your Wiki to organize/access the tools' info and tools' online link when applies.
- You could use one or multiple software products to implement the above requirements.