



XP4IDE

Applying XP Practices to Project Management

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Summary

- eXtreme Programming
- XP4IDE
- Working with XP4IDE
 - Planning Game
 - Managing Tasks & User Stories
 - Process Diagnostics & Tuning
- Remarks & Further Work
- Credits



eXtreme Programming (XP)

Agile software development
processes (can adapt to change)

- Variables: Cost, Time, Quality, Scope.
- Values: Communication, Simplicity, Feedback, and Courage.
- Principles: Provide feedback, assume simplicity, make incremental changes, embrace change, quality work.
- Practices: Planning game, small releases, simple design, automated testing, continuous integration, refactoring...



Tracking XP Projects

Two questions

- How much time have you spent working on this?
- How much time do you need before you've done?

However

- Both these questions are very difficult to answer



Why Measuring

- To reduce the estimation error
- To esteem product quality and improve it
- To maximize product value and reduce costs
- To expose mechanisms and behaviors behind XP projects
- To better embrace change



What to Measure

- Time spent working on a given
 - Artifact
 - Task
 - User story
- Time spent actually coding a given
 - Artifact
 - Task
 - User story



XP4IDE

XP doesn't rely on any particular tool

However

- It is easier to collect, share, analyze process data by means of automatic tools
- Internet networking helps to coordinate dispersed teams
- Project management support tools can be integrated in the working environments (IDE, Web, e-mail, IM)



Project management tools for Planning Game: XPSwiki

The screenshot shows a web browser window displaying the XPSwiki interface. The main content area is titled "XP PROJECT: Demo" and "an User Story". It features a navigation menu on the left with links for Home, Team, Releases, Iterations, Stories, Tasks, and Tests. The main content is divided into several sections:

- Wiki Menu:** [View] [Edit] [Attachment] [History] [Changes] [Basics] [Expand] [Print]
- Default Related Tasks Acceptance Tests Historical Data**
- Story Details:** A table with columns for Story Id, Owner, Priority, Risk, and Points. The story "log in" is highlighted in yellow. The Points table shows Estimated: 4, Load: 19, and Done: 5.
- Notes:** First user login. Description:
 - Ant
- Start Date:** 1/11/2004, **End Date:** 2/19/2004, **Status:** InProgress
- Related Tasks:** A table with columns for Task Name, Status, Developer, Points Estimated, and Done.

Task Name	Status	Developer	Points Estimated	Done
<input type="checkbox"/> test	Done	Maria	4	2
<input type="checkbox"/> g	ToDo		12	0
<input type="checkbox"/> re	InProgress		3	3

At the bottom, there are buttons for "Review", "Add a new Task" (with an input field), "Add", and "Manage Tasks".



Project management tools for Planning Game: XPlanner

The screenshot shows the XPlanner web application interface. The browser window title is "XPlanner Story: Lsr Erondly BrdrVds - Mozilla". The address bar shows "http://localhost:8080/xplanner_idea/idea/view/userstory". The page title is "XPlanner".

The main content area displays a story titled "Story: Lsr Erondly BrdrVds" with a progress bar. Below the story title is a link to "http://example.com/design_notes.txt".

Feature	Description
First Feature	This is the first feature
Another one	This is another feature

- Item 1
- Item 2

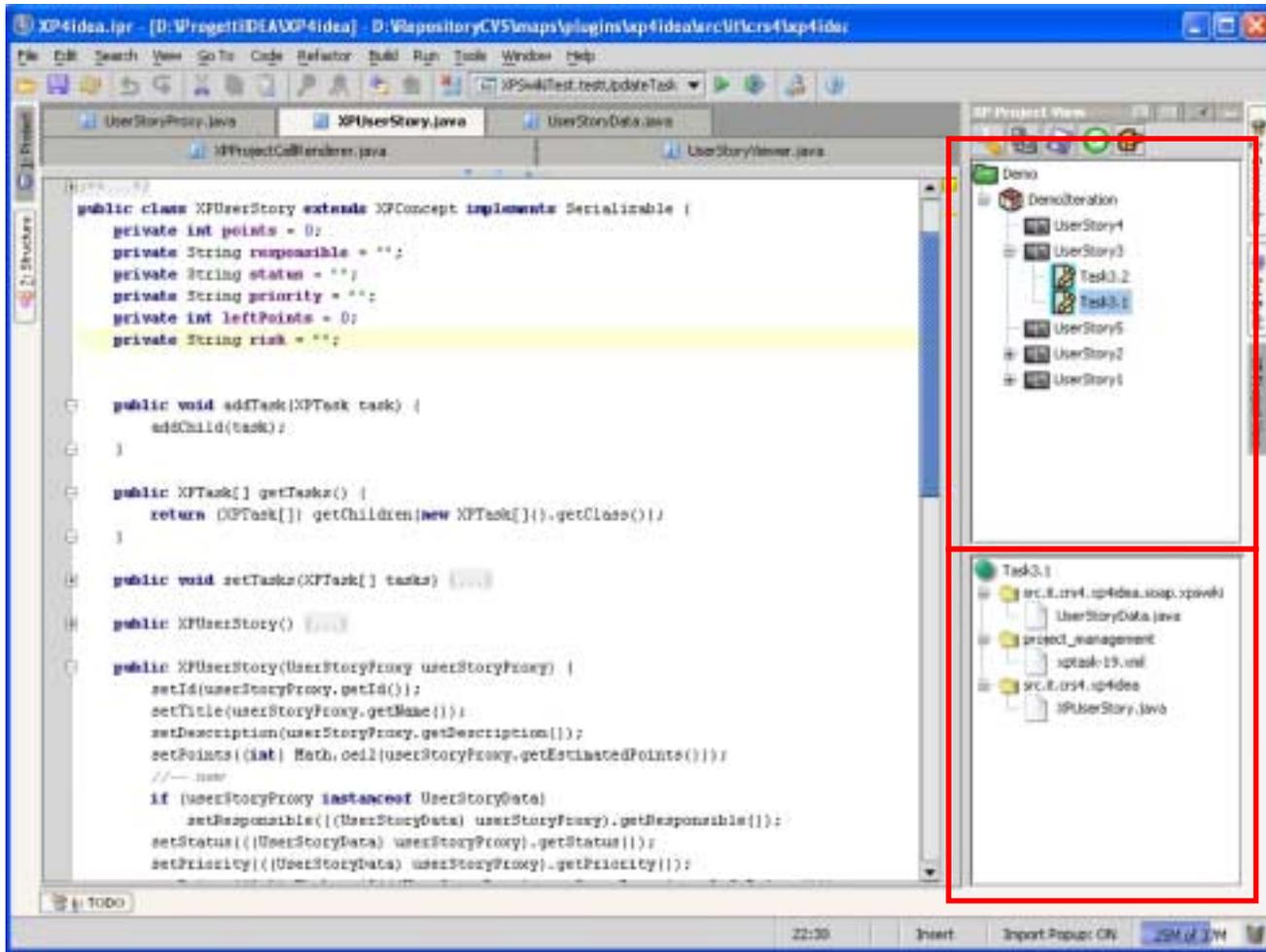
Priority: 4 Estimated Hours: 14.0
Actual Hours: 6.6

Task Name	Type	Progress	Est.	Acc.	Disposition	Actions
Lodofy sivr	Ueture	<div style="width: 100%; background-color: green;"></div>	3.0	ND	Dinnid	<input checked="" type="checkbox"/> <input type="checkbox"/>
Ludofy Jirh	Feature	<div style="width: 50%; background-color: blue;"></div>	8.0	ND	Planned	<input checked="" type="checkbox"/> <input type="checkbox"/>
Qudofy blng	Mitor	<div style="width: 0%; background-color: gray;"></div>	3.0	ND	Blunnid	<input checked="" type="checkbox"/> <input type="checkbox"/>

At the bottom, there are links for "Edit Story" and "Create Task", and a "Notes" section with an "Add Note" button.

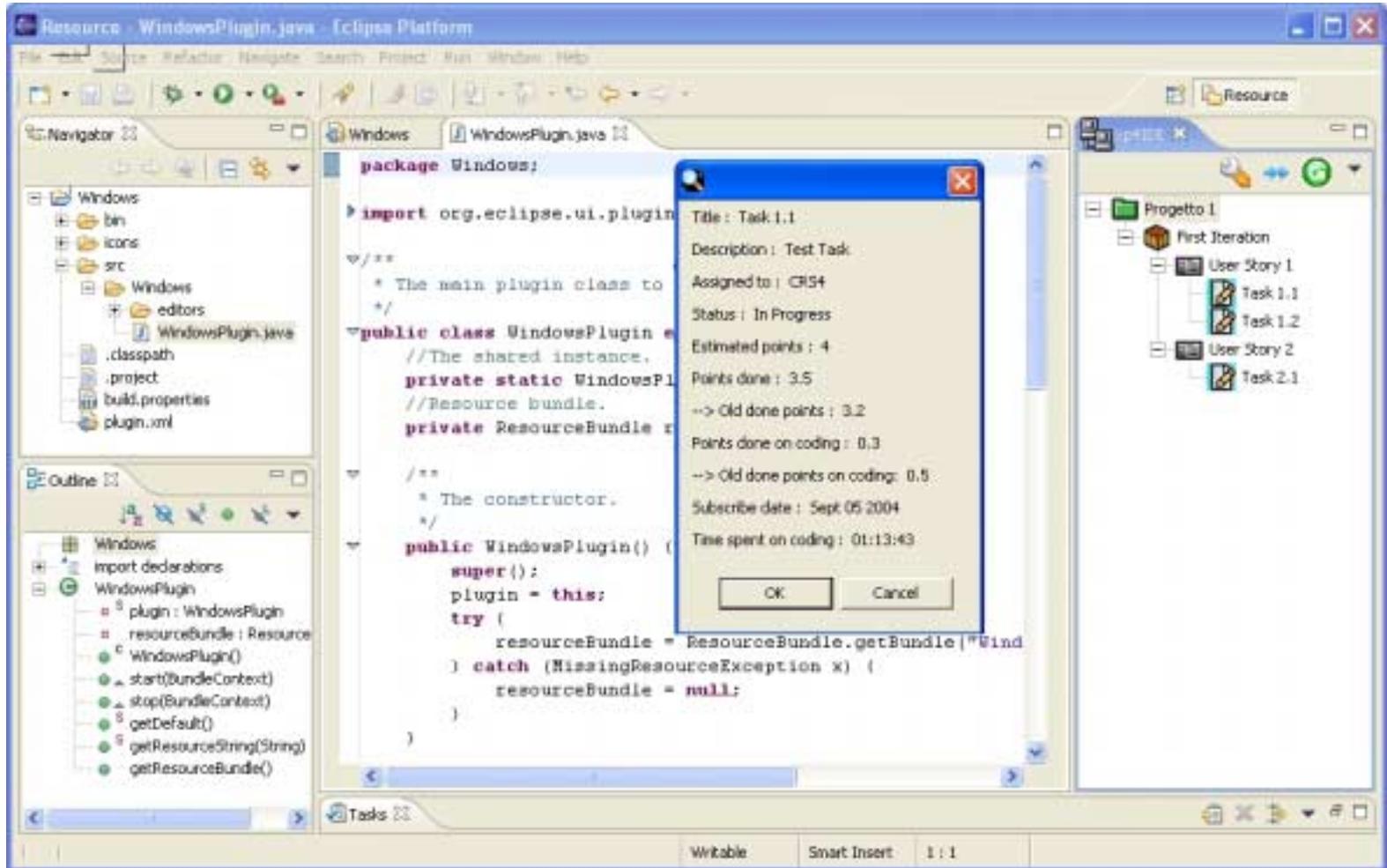


Working with XP4IDE : Coding



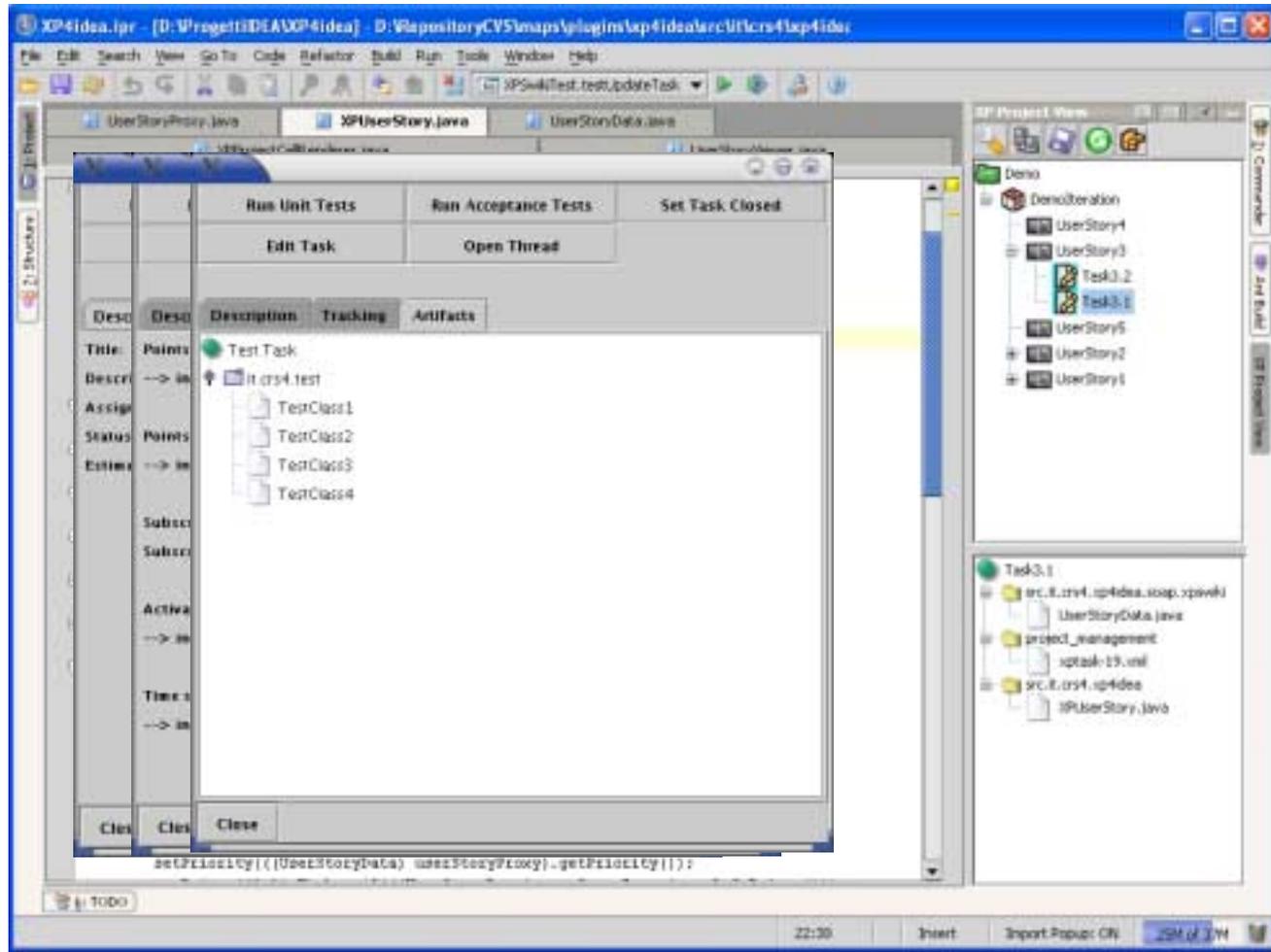


Working with XP4IDE: Coding



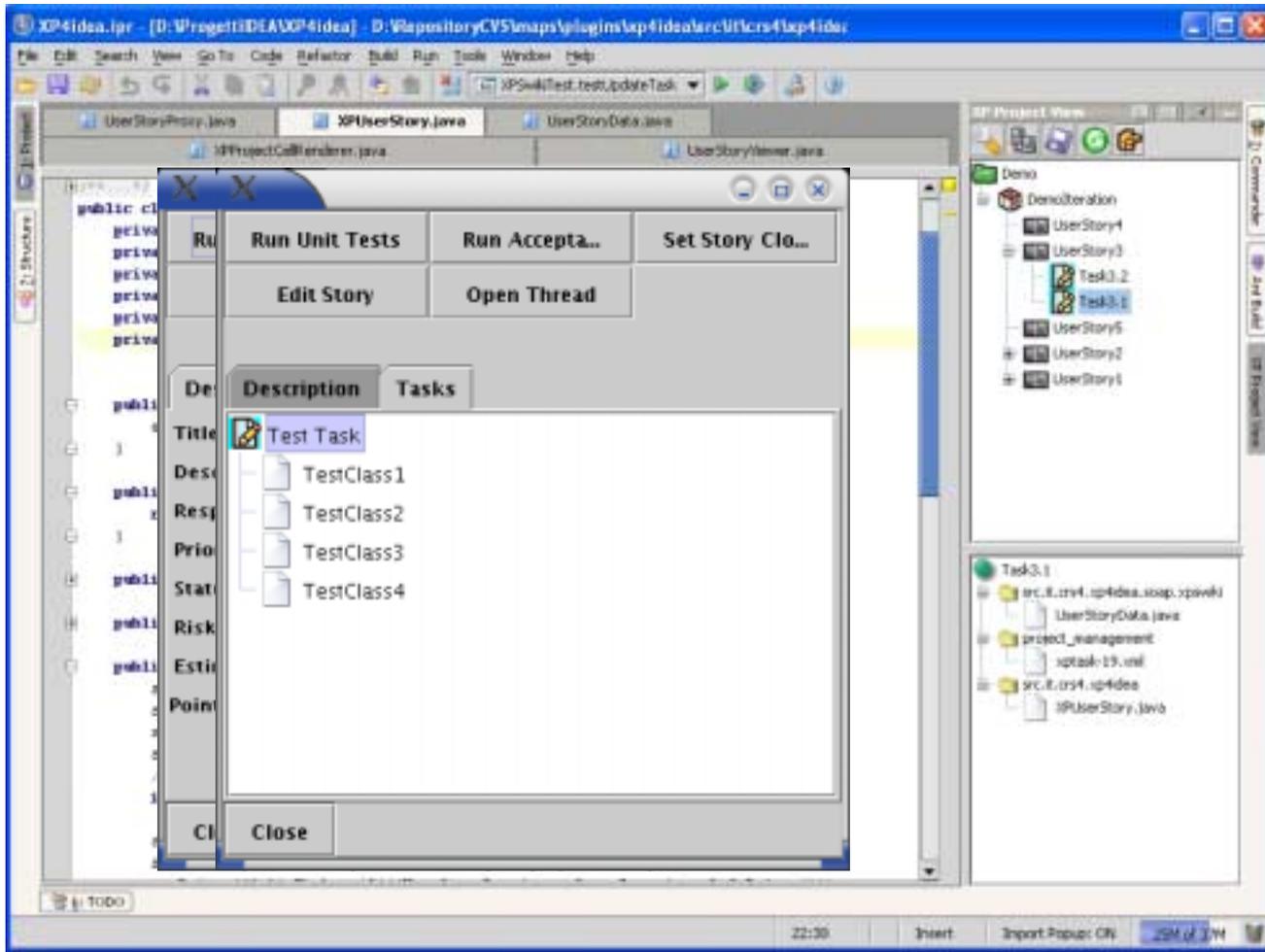


Working with XP4IDE: Managing a Task



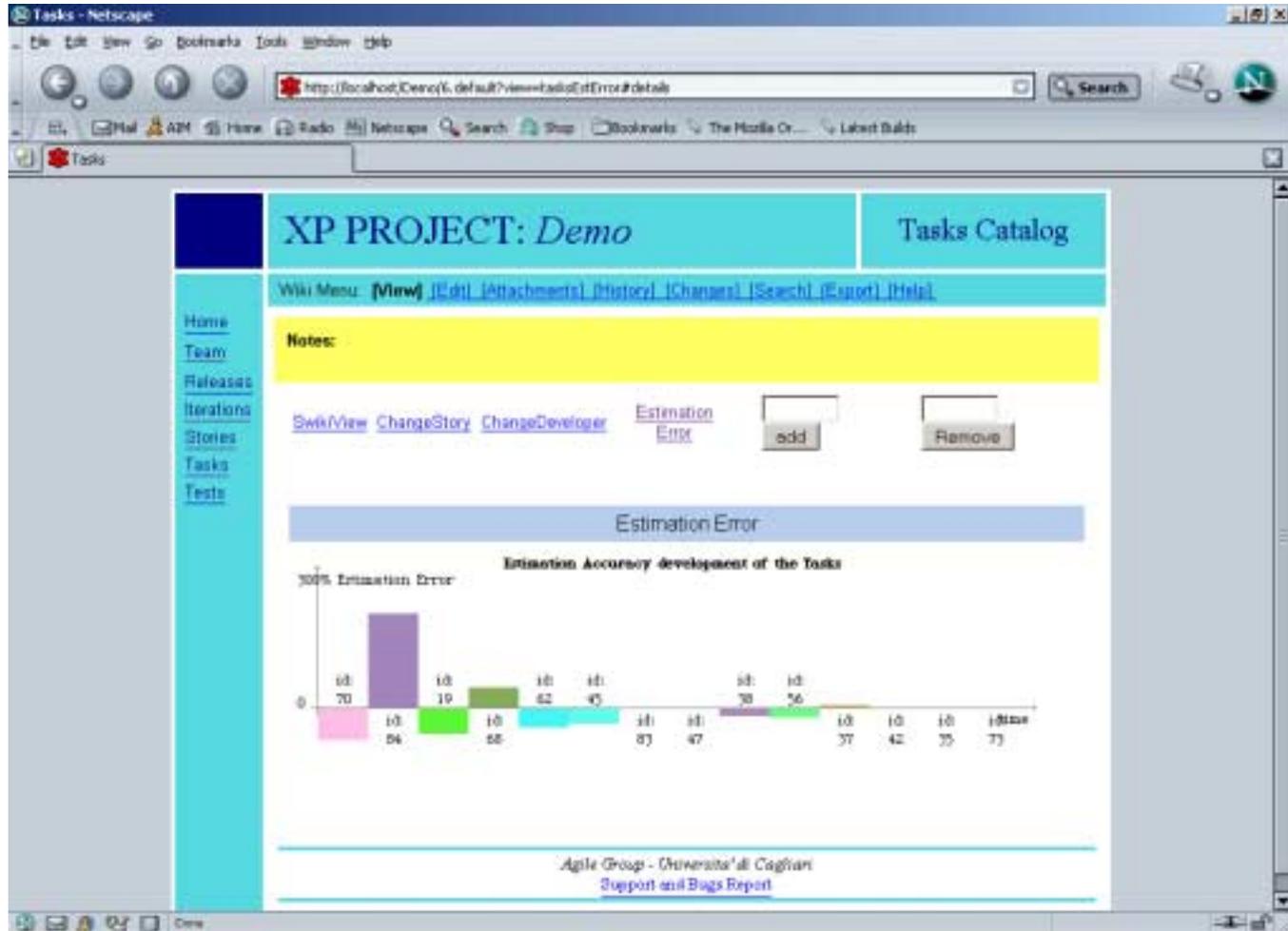


Working with XP4IDE: Managing a User Story





Working with XP4IDE: Process Analysis





Remarks

- Managing and tracking XP projects
- Collect, share, analyze process data
- Coordinate dispersed teams
- Integrated in the working environment



Further Work

- New Functionalities
- Support more Platforms
- Customize Methodology



Conclusion

- XP4IDE is funded by the Italian MIUR
- Released under GPL

Information & Download

- <http://sourceforge.net/projects/xp4ide>

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