Overview

Project Overview

Our objectives:

- Improve our website registration system
- Answer pragmatic questions about XP
- Provide material and experience for a book.

Release and Iteration Planning

Building Infrastructure.

Unit Testing and Refactoring.

Conclusion
Project Overview

- User area for commercial web-site
  - Java servlets / JSP.
  - JRun
  - JDBC to a “Database” (Access)
- Real Project (currently working on our website)
  - Real Customer
- 3 week release
- 1 week iterations (40 hours)
Stories

Stories

Registration
Login
E-mail Notification
Forgot Password
Transparent Access
Pragmatic Objectives

- When to do refactoring?
- Learning Test-First Programming.
- Learning to write User Stories.
- Learning planning and iteration planning.
- How much planning do you do?
- Does XP work in our chaotic environment?
We did our first Release and Iteration plans on the same day.

Story estimates and release plan in the morning.

Iteration plan in the afternoon.
First Iteration Plan

- Broke stories into tasks
- Signed up for tasks
- Estimated tasks.
- Estimates totaled 50 hours. (10 hours too many)
  - Estimates were large because we specifically included time for tests.
- Our customer was yelling at us.
  - “You can’t change your estimates in the space of two hours.”
What we did.

- We said we’d try.
- We said this because we didn’t know our velocity.
- We’d just estimated the user stories a few hours before, and now we were retracting our estimates. It was embarrassing.
What happened.

- We got it done in 40 hours.
- Our estimates were too conservative.
- Our velocity was too low.
- But, did we do enough refactoring?
What should we have done?

- We should have stuck to our estimates and asked our customer to remove scope.
- This would have set customer’s expectation that pressure would not be effective.
- It would have given us more time to refactor.
Early on we built a database infrastructure.

Because we knew we’d need it.

Old habits are hard to break.

Later, when we *really* needed it

It was wrong.

We had to refactor it,

And all the code that used it.
Testing Servlets

- It’s hard.
- We opted not to test them because it was hard.
- Later we were forced to refactor the servlets.
  - That was even harder.
  - Too much functionality was tied to the servlets.
- Eventually we pushed as much functionality as possible out of the servlets so we could test and refactor.
Conclusion

- The release has been completed.
  - Three iterations.
- The software is in production
- There are no reported bugs
- Altogether 6 people paired on the code at various times.
- Acceptance tests are manual.
  - We did some work with httpunit to automate some acceptance tests.
Next Steps

Questions
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