Unit Testing in VFP

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Who is this guy?

- Consultant
- Author
  - *Essential SourceSafe*
  - *Hacker’s Guide to Visual FoxPro*
- Microsoft Certified Solution Developer
- Microsoft Certified System Engineer
- Microsoft Support Most Valuable Professional
What we’ll cover tonight

- eXtreme Programming tenets
- Refactoring
- Unit Testing
- How to accomplish this in VFP
eXtreme Programming tenets

- Customer On-Site
- Pair Programming
- Short Iterations before delivery
- Continuous integration
Refactoring

.rules for making objects work better
Unit Testing

- Before developing a new method, define a test that describes:
  - What the method does
  - How it handles errors
  - What it returns
- Write the tests, *then* write the code
- “*UnitTests* are programs written to run in batches and test classes. Each typically sends a class a fixed message and verifies it returns the predicted answer.” – c2.com
How to do it in VFP

- Extreme Programming
- Refactoring
- Unit Testing
Extreme Programming: Planning

Enhancement Request 100234: Need to re-cost parts as job changes

2 days / 3 days

1

TR

User Story

Priority

Assigned to

Estimate

Actual
Refactoring

- Martin Fowler wrote book, Addison-Wesley
- Discusses basics of refactoring
- Catalogs common refactorings
- Explores issues, business, psychological with programmers and managers
Unit Testing

- XP says to write tests first
- Run tests to confirm it fails
- Write code to pass tests
- DONE!
Unit Testing

- Ideally, unit tests can be run as one-off and in a batch
- Requires “TestFriendlyEnvironment”
- Framework that supports
  - Global object creation
  - Login bypass
- Command-line and GUI “runners”
Other Kinds of Testing

- Load Testing
  - Microsoft site for free web testing tool
- GUI Testing
  - FoxRunner from Manfred Ratzmann
  - Automating Internet Explorer from VFP
  - VFP 7 AATest.APP
- Coverage Testing
  - VFP Coverage Profiler
Where to learn more

- http://www.xprogramming.com

- FoxRunner: (in German)
  http://www.cal.de/autofox.htm
  http://www.hallogram.com/foxrunner/
Thank you!

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