Student Co-Op Evaluation System

Patrick Flanagan, Tom Small, Whitney Sorenson, Dan Volpe, Chris Woodbury
Outline

• Project Overview
• Process Plan
• Risks
• Design
• Metrics
• Challenges
• Project Status
• Demo
Project Overview

• Online student co-op evaluation system
• Built on top of existing employer evaluation system
• Customer
  – RIT Office of Co-Operative Education and Career Services
• Target Audience
  – Engineering and Engineering Technology
Benefits of System

- Remove the need for paper evaluations
- Provide sophisticated methods of reporting and analysis
- Convenient and easy access to both student and employer evaluations
Main Features

• Easy submission of student evaluations
• Access to saved and completed evaluations
• Customizable reports
• Customizable email notifications and confirmations
• Full integration with existing employer evaluation system
Process

• Agile development
  – Multiple short iterations
  – No major up-front design
  – Refactoring of existing system

• Bugzilla

• Testing
Iteration Cycle

- Identify Goals of Iteration
- Requirements Drill Down
- File Feature Requests into Bugzilla
- Assign Features to Developers
- Implementation
- Integration Testing
- Deployment
- Stakeholder Feedback Session
## Risks

<table>
<thead>
<tr>
<th>Description of Risk</th>
<th>Probability (0 - 1)</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changing requirements</td>
<td>.75</td>
<td>Medium</td>
</tr>
<tr>
<td>Introducing new bugs in existing system</td>
<td>.75</td>
<td>Medium</td>
</tr>
<tr>
<td>Configuration of existing system</td>
<td>.75</td>
<td>Medium</td>
</tr>
<tr>
<td>Difficulty understanding existing system design</td>
<td>.5</td>
<td>Medium</td>
</tr>
<tr>
<td>ITS unavailable or too busy to respond to important requests</td>
<td>.2</td>
<td>Medium</td>
</tr>
<tr>
<td>Tight Schedule</td>
<td>.25</td>
<td>Low</td>
</tr>
<tr>
<td>CVS Problems</td>
<td>.2</td>
<td>Low</td>
</tr>
</tbody>
</table>
Architecture

Application Server

Web Tier (JSPs, Folium)

Application Tier (Logic, EJBs)  Security Tier (JAAS)

Data Source Connection Pool

DCE

Database
Components

**Student**
- Logon
- View Form
- Save Form
- Submit Form

**Employer**
- Logon
- View Form
- Submit Form
- Department Management
- User Management

**OCECS Rep**
- Logon
- Pending Evaluations
- Email
- Reporting

**Department**
- Logon
- Email

**Key**
- New
- Modified
- Existing
Metrics

- Earned Value Chart
- Defect Metrics
- Usability Metrics
## Project Schedule

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Weeks</th>
<th>Dates</th>
<th>Iteration</th>
</tr>
</thead>
<tbody>
<tr>
<td>042</td>
<td>5 – 8</td>
<td>1/10/05 – 2/4/05</td>
<td>Iteration 1</td>
</tr>
<tr>
<td>042</td>
<td>9 – 11</td>
<td>2/7/05 – 2/25/05</td>
<td>Iteration 2</td>
</tr>
<tr>
<td>043</td>
<td>1 – 3</td>
<td>3/7/05 – 3/25/05</td>
<td>Iteration 3</td>
</tr>
<tr>
<td>043</td>
<td>4 – 6</td>
<td>3/28/05 – 4/15/05</td>
<td>Iteration 4</td>
</tr>
</tbody>
</table>

- Deliver in 6th week
- Planned 2 week buffer
Project Schedule

• Overview of Iterations
  – Iteration 1
    • Student view of system, system & development environment configuration, email system
  – Iteration 2
    • Refactoring, polish student view, dynamic form generation/editing
  – Iteration 3
    • Reporting
  – Iteration 4
    • Usability testing, bug fixes, further polishing
Project Schedule

• Prior to Iteration 1
  – Planning
  – General requirements gathering
  – Familiarization with existing system
Challenges

- Existing Design and Implementation
- Configuration
- Existing Documentation
- Feature Creep
- CVS
Project Status

- Finished Iteration 1
- Currently working on Iteration 2
Demo
Questions