4. Teams: Status Reports

CSE 498, Collaborative Design
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Team 1 Status Report (1 of 4)

- Client Contact
  - Had initial client conference call.
  - Making plans to meet in person.
  - Discussed high-level overview of requirements
- Team Meetings
  - Triage Meeting set up
  - Regular team meet times established
- Team Organization
  - Google Calendar
  - Main Project Deadlines outlined

Team 1 Status Report (2 of 4)

- Server Systems / Software
  - Windows Server 2003
  - SQL Server with a fresh database
- Development Systems / Software
  - Visual Studio 2005
  - ASP.NET with C#
- Web Site
  - Up and running (link)
  - Most pages complete and up to date

Team 1 Status Report (3 of 4)

- Project Definition
  - Vendor Check-In System
  - Barcode scanning and printing
  - Web-based, multi-user
  - Database-driven backend
  - From-scratch database
- Technical Specification Document
  - ER Diagram/Database Schema
  - Class Diagram
  - Layout Design
  - Barcode

Team 1 Status Report (4 of 4)

- Risks
  - Barcode Printing
    - Importance: HIGH
    - Difficulty: unknown – guess medium
    - Priority: 2
  - Learning ASP.NET and C#
    - Importance: HIGH
    - Difficulty: minimal
    - Priority: 1
  - Possibly integrating with current Auto-Owners DB
    - Importance: Medium
    - Difficulty: unknown (if SQLServer DB, easy)
    - Priority: 3
Team 2 Status Report (1 of 4)

- Client Contact
  - Set up the weekly schedule
  - Had the first conference call
- Team Meetings
  - Set up the weekly schedule for team meetings
  - Set up the Triage meetings
- Team Organization
  - Split up into two subteams:
    - PACI – visual display (Scott and Nick)
    - IOS – process control (Steve and Tom)
  - Determined team positions

Team 2: Boeing

Team 2 Status Report (2 of 4)

- Server Systems / Software
  - Set up an SVN repository
  - Enabled Remote Desktop
- Development Systems / Software
  - Windows Environment
  - Using CIGI and C# with VS2005
- Web Site
  - ISS up and running
  - Website in development

Team 2: Boeing

Team 2 Status Report (3 of 4)

- Project Definition
  - PACI:
    - Visual simulation of P-8A aircraft
    - General flight physics
    - Control of the aircraft, flight path
  - IOS:
    - Process launching and management
    - Interface, tabbing, windows
- Technical Specification Document
  - Working with client on desired specifications
  - In development

Team 2: Boeing

Team 2 Status Report (4 of 4)

- Risks
  - CIGI
    - Understanding/Setup/Use
    - Online tutorials, working with client,/cgi.sourceforge.net
  - IOS
    - Managing multiple processes
    - Books, Google
  - Integration
    - Communication between PACI and IOS
    - Work closely with each other and client

Team 2: Boeing
Team 3 Status Report (1 of 4)

- **Client Contact**
  - Conference call with clients on 1/14 to assess requirements and goals of project
  - Will meet 1/16 in person to further discuss project and to receive sensors

- **Team Meetings**
  - Triage meeting scheduled for Tuesdays at 5:20pm
  - Met Thursday 1/10 to discuss general concepts

- **Team Organization**
  - Austin/Colin: Application/database
  - Nathan/Devin: Instrumentation and software interface

Team 3 Status Report (2 of 4)

- **Server Systems / Software**
  - Will run Debian Linux and Apache
  - Linux installation issue needs to be resolved

- **Development Systems / Software**
  - Sensor software requires Windows XP and Visual Studio 2005 and .NET Micro 2.0
  - Database will be developed using SQL/PHP

- **Web Site**
  - Website is up to date with required information
  - http://www.msu.edu/~crostyna/fomoco

Team 3 Status Report (3 of 4)

- **Project Definition**
  - Develop a way to identify how many times a vehicle is inspected by a potential buyer
  - Utilize sensors and construct a mesh network
  - Analyze sensor data and store it in a database
  - Create a web application to view the data from the database

- **Technical Specification Document**
  - Sensor software interface written in C#
  - Data stored to a SQL database
  - Web application written in PHP
  - Automotive scoring system to be developed

Team 3 Status Report (4 of 4)

- **Risks**
  - **Risk 1**
    - Scalability – adding more/different sensors, autos
    - Mitigation – Assess potential growth during planning, keep design open and general
  - **Risk 2**
    - Hardware Knowledge – must learn Crossbow libraries
    - Mitigation – Dedicate member to familiarize himself
  - **Risk 3**
    - Sensors are not ideal for the expected application
    - Mitigation - Acquire different sensors or simulate desired function
**Team 4 Status Report (1 of 4)**

- **Client Contact**
  - Held a conference call 1/11
  - Bi-weekly conference calls Wed/Fri

- **Team Meetings**
  - After Class
  - Every Friday afternoon

- **Team Organization**
  - Jordan – Client Contact
  - Josh – Sysadmin
  - Scott – Creative Talent

**Team 4 Status Report (2 of 4)**

- **Server Systems / Software**
  - Fedora 8 Workstation
  - Server not up (Linux network install broken)

- **Development Systems / Software**
  - Eclipse
  - EPIC

- **Web Site**
  - Up and running on our workstation
  - Created/Updated by Scott

**Team 4 Status Report (3 of 4)**

- **Project Definition**
  - Hypervisor: layer between guest OS's and hardware
  - Performs privileged operations for OS's
  - Interface: hypercalls (similar to syscalls)

- **Technical Specification Document**
  - Skeleton created by Scott
  - Outlined information for GUI front end
  - Outlined preliminary info for test suite structure
  - Still waiting on information from IBM

**Team 4 Status Report (4 of 4)**

- **Risks**
  - Perl
    - Test suite written in Perl
    - Learn Perl
  - IBM
    - Project Advisors are somewhat slow to respond
    - Lots of contact, firm and clear times
  - Hypervisor
    - Hypervisor only runs on PPC systems
    - Use an IBM server
  - Developing “pseudo-random” test cases
    - Cannot test all possible hcalls
    - Develop set reasonable test cases
Team 5 Status Report (1 of 4)

- Client Contact
  - Met with client to discuss project in more detail
  - Set up weekly meetings, Fridays at 3pm
- Team Meetings
  - Chris gave a report about distributed computing
  - Kim gave report about database independence
- Team Organization
  - Chung-Hi Kim—Webmaster/ Developer
  - Dustin Manning—Lead Developer
  - Chris Samiadji-Benthin—Client Contact/ Developer
  - Jared Wein—Technical Writer/Developer

Team 5 Status Report (2 of 4)

- Server Systems / Software
  - Apache Server, MySQL, Windows XP
  - Up and running
- Development Systems / Software
  - Python, Subversion
  - BOINC?
- Web Site
  - http://cse498t05s.cse.msu.edu
  - Meeting minutes added to website

Team 5 Status Report (3 of 4)

- Project Definition
  - Archive logging of MATRIX's KORA project
  - Computing checksums
  - Distributed computing
  - ...and fast performance
- Technical Specification Document
  - Began writing document
  - Added commonly used terms and some diagrams of proposed solutions

Team 5 Status Report (4 of 4)

- Risks
  - Distributed Computing
    - No one in our group has DC experience
    - Will start experimenting early
  - KORA is being rewritten
    - Mentor is unclear on final shape of archive
    - Will keep in very close contact with client
  - Performance
    - Estimated 28 days to compute checksums for archive
    - DC might be an answer
  - Reliability
    - Dealing with network issues
    - Will have to implement a lot of fault tolerance

Team 5: MATRIX
Team 6 Status Report (1 of 4)

• Client Contact
  – Overview conference call (Sunday)
  – Weekly meetings to be arranged

• Team Meetings
  – Weekly team meetings (Mon 2-3)
  – Weekly triage meetings with TA (Wed 2:30)

• Team Organization
  – Kirsten: Website, meeting notes
  – Rob: Client contact, PM, server maintenance
  – Charles: Presentation coordinator
  – Sean: Documents

Team 6: Microsoft

Team 6 Status Report (2 of 4)

• Server Systems / Software
  – Installed Windows Server 2k3
  – Installed SVN

• Development Systems / Software
  – Installed Windows (Various)
  – Installed Visual Studio 2008
  – Installed Silverlight Alpha 1.1 SDK

• Web Site
  – ASP.NET for project
    (http://cse498t06s.cse.msu.edu/)
  – http://cse498t06s.cse.msu.edu/498/ (Class Site)

Team 6: Microsoft

Team 6 Status Report (3 of 4)

• Project Definition
  – Online Whiteboard (4-5 Users)
  – Draw shapes, add text blocks, free-form pen tool
  – Initially focus on user interaction and design
  – More features to come?

• Technical Specification Document
  – We looked at it!
  – Will make template if needed
  – Firm understanding of project requirements
  – Members assigned subsections

Team 6: Microsoft

Team 6 Status Report (4 of 4)

• Risks
  – Working with Silverlight Alpha
    • Silver is currently in alpha and missing many components
    • Online help forums
    • Get additional documentation if possible

• Conflict Resolution
  – What to do when two users simultaneously edit/delete
    • Mitigation: Looking into solutions; Received past capstone source

• Additional features
  – New features may be requested as we go
  – Frequent client contact

Team 6: Microsoft
Team 7 Status Report (1 of 4)

- Client Contact
  - 2 conference calls with Kabe completed.
  - Weekly calls scheduled for Wednesdays
- Team Meetings
  - Triage Meeting Mondays 2:30
  - Internal meetings after calls and as needed
- Team Organization
  - Matthew – Project Manager
  - Kyle – Web Site Manager
  - Tamy – Team Planner
  - Dan – Client Liaison

Team 7 Status Report (2 of 4)

- Server Systems / Software
  - Windows 2003 Server Operating System
  - Apache Web Server
- Development Systems / Software
  - Eclipse IDE
  - TIBCO Open Source AJAX Interface
- Web Site
  - Apache Web Server up and running
  - http://35.9.22.106/

Team 7 Status Report (3 of 4)

- Project Definition
  - INFM (Network Fault Management)
  - Currently working standalone application
  - Separate business logic from GUI logic
  - Implement new deployable GUI using AJAX
- Technical Specification Document
  - Functional: Manage Network Fault Data
  - Design: Separate Business & GUI logic
  - Technical: Distributed Application, AJAX Front End

Team 7 Status Report (4 of 4)

- Risks
  - Risk 1
    - Many team members have little Java/AJAX experience
    - Kabe has ordered us some reference books/tutorials
  - Risk 2
    - Understand and document the existing classes quickly
    - We have it running and are looking at the code now
  - Risk 3
    - Time Management - Extremely short time period
    - Emphasis on prioritization, many small deadlines, etc.
  - Risk 4
    - Project requirements aren’t all available yet
    - Focus on the priorities that are currently known
Team 8 Status Report

• Client Contact
  – Visited Sircon last week
  – Established a bi-weekly iterative meeting

• Team Meetings
  – Weekly Team meetings Monday after class
  – Triage Wednesday mornings (9:30am)

• Team Organization
  – Andrew: Systems Administration/Java Expert
  – Akif: Point of Contact
  – Matt: Technical Developer, GUI designer
  – Mark: Project Manager

Team 8 Status Report

• Server Systems / Software
  – OS-independent, VNC (set-up) and SVN clients
  – WAMP server running as of last week

• Development Systems / Software
  – Java, NetBeans IDE, SWING UI
  – XMLBeans Parser Library
  – Installed on everyone’s laptop and lab desktop

• Web Site
  – http://cse498t08s.cse.msu.edu/
  – Functioning as of last week, completed Monday

Team 8 Status Report

• Project Definition
  – Graphical Workflow application for Autopilot automation
  – Based upon OSWorkflow project, XML based
  – Create/view/edit XML configuration files for producer requests with the GUI, previously done by hand edits
  – Add/remove/move functions and decision points, rendering connective lines

• Technical Specification Document
  – Schedule in progress by Mark
  – Reviewing OSWorkflow DTD, remaking XSD version
  – Waiting on GUI guidelines and suggestions from Sircon
  – Have sample XML files already

Team 8 Status Report

• Risks
  – Risk 1
    • Auto-correcting (nesting) of pre-existing XML files
    • Stand-alone aimed at reordering XML code
  – Risk 2
    • Dynamic Function creation instead of from Palette
    • Gather req’s, predictions, similarities to define rules
  – Risk 3
    • Flowchart rendering (moving items), line connections
    • SWING and other frameworks’ docs for behavior/events
  – Risk 4
    • Spring/Beanshell Frameworks
    • Investigation of docs, website and existing code
Team 9 Status Report (1 of 4)

- Client Contact
  - Met at TechSmith 1/10
  - Received Installers
  - Some Documentation
  - Corresponded about Server setup

- Team Meetings
  - Weekly Triage Fridays at 2
  - Group Meeting Friday after Triage
  - Already met 3 times

- Team Organization
  - Ian: Client Contact

Team 9 Status Report (2 of 4)

- Server Systems / Software
  - Camtasia Relay Server Setup
  - SVN Setup

- Development Systems / Software
  - Ubuntu workstation for dev and testing
  - Windows and Mac Client as examples

- Web Site
  - Basic Information

Team 9 Status Report (3 of 4)

- Project Definition
  - What is Camtasia Relay?
  - Target Audience

- Recorder
  - GUI
  - Screen Recording SDK

- Uploader

- Technical Specification Document
  - Split up known information
  - Researching unknowns

Team 9 Status Report (4 of 4)

- Risks
  - Screen Recording in Linux
    - Capture pixels and mouse movements in X windows
    - Mike Ezzo: Research similar Open Source projects

  - Audio Recording in Linux
    - Capture Audio from microphone
    - Ian: research open source audio recording packages

  - Creating Video
    - Syncing Screen Video and Audio to AVI
    - Mike Harriman: research FFmpeg

  - Multiple Distributions
    - Not tightly integrated to a specific Distribution
    - Keith Barnes (also researching QT GUI toolkit)
### Team 10 Status Report

**Client Contact**
- Established first phone contact with client
- Open line of email communication

**Team Meetings**
- Weekly Triage Meetings Friday Afternoons
- Meetings after class

**Team Organization**
- Project Manager – Stephanie Cook
- Graphics – Daniel Fiordalis
- Software Lead – Matthew Grabow
- Disassembler – Thomas Castellani

**Server Systems / Software**
- Windows Server 2003
- IIS

**Development Systems / Software**
- Visual Studio 2008 with C#
- Windows Presentation Foundation

**Web Site**
- Finished
- [www.cse49810a.cse.msu.edu](http://www.cse49810a.cse.msu.edu)

### Project Definition

- Redesign front end for Irritrol
- Rewrite USB drivers for use with Vista and XP
- Enable Scheduling Advisor capability
- Utilize more of existing hardware functionality

**Technical Specification Document**
- Code should be in C#
- Use Windows Presentation Foundation
- Use Visual Studio
- Use 3.5 version of .NET Framework

### Risks

- USB Drivers
  - Ensure compatibility for Vista and XP
  - Build on understanding gained by sample driver provided
- Understanding Backend Storage
  - Finding how scheduling are created and scored
  - Meet with client to draw on his knowledge base
- Porting Action Scripts to C#
  - Convert functionality of existing Action Scripts to C#
  - Utilize “easter egg” of program for debugging purposes
- Use Scheduling Advisor
  - Input features of the environment to generate schedule
  - Research weather information online for understanding