

MICHIGAN STATE UNIVERSITY

01/26: Team Status Reports

CSE 498, Collaborative Design



Wayne Dyksen
Department of Computer Science and Engineering
Michigan State University
Fall 2009

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S Team 1 Status Report (1 of 4) →

- Client Contact
 - One Phone Conference, Weekly Conference Call Scheduled
 - Have met face to face on Campus and discussed project scope and detail.
- Team Meetings
 - Weekly Monday night meetings
- Team Organization
 - Basic roles assigned
 - Beginning to assign more complex roles to research various technologies

Team 1: Altair

S Team 1 Status Report (2 of 4) →

- Server Systems / Software
 - Windows Server 2003
 - Remote access working
- Development Systems / Software
 - Eclipse
 - Windows XP
 - SVN
- Web Site
 - Web-site is up and running

Team 1: Altair

S Team 1 Status Report (3 of 4) →

- Project Definition
 - CAD to X3D
 - Java X3D viewing applet/application
 - Ability to highlight specific parts of a 3D object
 - Highlighted parts to XML file
- Project Plan Document
 - Assign Teammate(s) to organize and outline
 - Solid understanding of project requirements since company meeting

Team 1: Altair

S Team 1 Status Report (4 of 4) →

- Risks
 - Risk 1
 - Java 3DTranslator
 - Researching X3D File format different Java XML tools (Panic)
 - XMLBeans, JAXB, XSLT
 - Risk 2
 - OpenGL, JOGL, Java3D
 - Decide which would be best to use later, research (Cry)
 - Risk 3
 - Creating an applet using Eclipse and Java
 - Google it
 - Risk 4
 - Web services (optional)
 - Research

Team 1: Altair

S Team 2 Status Report (1 of 4)

Team 2: Auto Owners Insurance

- Client Contact
 - Met with client in person (01/23)
 - Conference calls every Friday afternoon upon approval from Auto-Owners
- Team Meetings
 - Team meeting every Wednesday evening
 - Team Triage meeting every Wednesday at 4:30 PM
- Team Organization
 - Gina: Project Manager
 - Mike: Technical Lead / Client Contact / System Admin
 - Steve: Developer / Co-Webmaster / Graphics Designer
 - Dan: Developer / Co-Webmaster / Tester

S Team 2 Status Report (2 of 4)

Team 2: Auto Owners Insurance

- Server Systems / Software
 - SQL Server 2005 standard edition
 - Tortoise SVN for source control
- Development Systems / Software
 - Visual Studio 2008 with .NET framework 3.5
 - Languages: C#.NET, ASP.NET, AJAX
- Web Site
 - Website is up and running

S Team 2 Status Report (3 of 4)

Team 2: Auto Owners Insurance

- Project Definition
 - Create a Web Application that allows Auto-Owners Insurance managers to set thresholds for phone time usage.
 - If any threshold is breached, an email notification will automatically be sent out to the appropriate managers.
 - Create monthly reports for minutes used and frequency of calls made.
 - Use an online white/yellow page service for caller ID.
- Project Plan Document
 - Rough draft of project plan is completed
 - In the process of Improving/Refining Diagrams
 - Sending out a copy to Auto-Owners for client review

S Team 2 Status Report (4 of 4)

Team 2: Auto Owners Insurance

- Risks
 - Risk 1
 - Finding an online white/yellow page service for caller ID that is either free or cheap
 - Found a few potential candidates but there are various limitations with many of them
 - Risk 2
 - Getting hierarchy information from SAP
 - Auto-Owners is currently getting more information for us
 - Risk 3
 - Auto-Owners won't release production data to our team
 - Our client is currently creating test data that will mimic their production data

S Team 3 Status Report (1 of 4)

- Client Contact
 - First conference call Wednesday, 1/21
 - Weekly meetings with client to follow as scheduled
- Team Meetings
 - Monday directly proceeding class
 - Used to delegate individual and to brainstorm future group tasks
- Team Organization
 - Main client contact and webmaster selected
 - Conditional mutual understanding to properly mitigate potential risks

Team 3 Boeing

S Team 3 Status Report (2 of 4)

- Server Systems / Software
 - Using Tortoise SVN as subversion software
 - Other necessary applications TBD as sought after
- Development Systems / Software
 - OpenEagles
 - DIS
 - Collada
- Web Site
 - Project plan skeleton available
 - Links to developmental software to be used

Team 3 Boeing

S Team 3 Status Report (3 of 4)

- Project Definition
 - Goal is to enhance the KML USB 2008 suite
 - Improve realistic detail on landscape and buildings
 - Support for interactivity with unmanned vehicle
 - Create building internal and bunker models
- Project Plan Document
 - Skeleton available on team website
 - Will contain important UML diagrams for project structure and architecture
 - Complete with overview of conceivable risks
 - To account for adequate documentation and coding standards

Team 3 Boeing

S Team 3 Status Report (4 of 4)

- Risks
 - Learning OpenEagles (Not much documentation available)
 - Open source framework designed to support the rapid construction of virtual and constructive simulation applications.
 - Fixing a bug with the roof creation on last semester's project
 - Last year's team couldn't figure it out, we could see this potentially being a problem to us.
 - Advanced Urban Scenery Fidelity
 - The ability to generate realistic urban scenery (none of us are graphics experts). We could see this being a real challenge.
 - How it all fits together!
 - There are a lot of aspects of this program that we don't know much about, once we have figured out all these different aspects, how will it all fit together?

Team 3 Boeing

S Team 4 Status Report (1 of 4)

- Client Contact
 - Conference calls on January 14th and 20th
 - Weekly Conference call scheduled on Tuesdays
- Team Meetings
 - Meet every Tues/Thurs at 4 for status updates
 - Assign tasks to be completed before next meeting
- Team Organization
 - Marc Ahlman is main client contact and Nick Stumpus is the Webmaster
 - Marc is project manager

Team 4: Ford

S Team 4 Status Report (2 of 4)

- Server Systems / Software
 - Windows Server 2003 with Microsoft Exchange Server
 - 2nd server running Debian
- Development Systems / Software
 - Windows XP
 - Visual Studio 2005
- Web Site
 - Up and Running, maintained by Nick
 - Will be used so Ford can see status updates

Team 4: Ford

S Team 4 Status Report (3 of 4)

- Project Definition
 - Capture conference room utilization information with iMote sensors
 - Use mesh network to relay info to database
 - Create Web App to monitor database
 - Create reports to be used by Building Managers
- Technical Specification Document
 - First draft in progress
 - Finished Functional Specs, outlined the rest
 - On schedule to finish by Due Date

Team 4: Ford

S Team 4 Status Report (4 of 4)

- Risks
 - Risk 1
 - Integrating Google Maps API for conf. room visualization
 - Nick is researching/developing
 - Risk 2
 - Integrating Outlook Calendar for conf. room scheduling
 - Greg is investigating options for integration of calendar
 - Risk 3
 - Communicating with iMote sensors
 - Read manuals and familiarize with code
 - Risk 4
 - Configuring Exchange server
 - Researching methods online, trial and error

Team 4: Ford

S Team 5 Status Report (1 of 4)

- Client Contact
 - Conference call to discuss project outline -1/20/09
 - Received Hardware/software/docs
- Team Meetings
 - Discuss purpose of the project, server setup
 - Met to discuss front end and usability
- Team Organization
 - Xulu: Team Contact - David: Webmaster
 - Eric: Advisor - Will: System Admin

Team 5: GE Aviation

S Team 5 Status Report (2 of 4)

- Server Systems / Software
 - Website/svn up and running
 - GE hardware software in progress
- Development Systems / Software
 - Basic software setup, VS2005 set up
 - sFMS Boeing 737 hardware/software installed
- Web Site
 - Set up website 01/16/09
 - Updated 01/25/09

Team 5: GE Aviation

S Team 5 Status Report (3 of 4)

- Project Definition
 - Voice interface system for Air Traffic Controllers
 - Sends ACARS message to FMS system
 - Minimize ATC workload
 - Will integrate into FANS (POC)
- Project Plan Document
 - Created outline, started on sections
 - Finalize section layout
 - Start summary, overview, features/reqs
 - Fill in system arch./design, create manuals

Team 5: GE Aviation

S Team 5 Status Report (4 of 4)

- Risks
 - Risk 1
 - Communicating and integrating hardware with software
 - Close communication with GE
 - Risk 2
 - Integrating Flex, Bison with C++.NET
 - MSDN/online resources
 - Risk 3
 - C# GUI with flex/bison/c++.net backend
 - Coding/objects standardization
 - Risk 4
 - Integrating existing speech recognition software into proj
 - Leverage testing and documentation

Team 5: GE Aviation

S Team 6 Status Report (1 of 4)

- Client Contact
 - Had 3 conference calls, numerous individual contacts, received and configured hardware
 - Have established weekly conference calls
- Team Meetings
 - No official schedule, meeting as necessary (roughly every day)
- Team Organization
 - Assigned primary contact and webmaster
 - Tasks are delegated as they are discovered; no one person has a static role regarding development

Team 6: Motorola

S Team 6 Status Report (2 of 4)

- Server Systems / Software
 - Server is online (Windows Server 2003) with FTP and website
- Development Systems / Software
 - Set up the sandbox environment per contact's instructions on our lab machines (Windows XP using the Eclipse IDE with a local MySQL database and GlassFish web server)
- Web Site
 - Up to date with project description, meeting minutes and current news

Team 6: Motorola

S Team 6 Status Report (3 of 4)

- Project Definition
 - User Generated Video Service for Cable Systems
 - Upload a video online, associate with people who are allowed to view it
 - Those people can navigate to the video and view on their set-top cable box
- Project Plan Document
 - Posted a draft which was critiqued by our contact
 - Currently has an executive summary, component outline and high-level component interaction information
 - Our 2nd draft is due tonight (Jan. 26th)

Team 6: Motorola

S Team 6 Status Report (4 of 4)

- Risks
 - Risk 1
 - Java / JEE / Java web applications
 - We're all working as quickly as possible to adapt to a Java environment. We can only mitigate this risk with experience
 - Risk 2
 - REST / RESTlet (REST API)
 - The entire web application needs to be done "RESTfully", supported by the RESTlet API and other RESTful practices. Learning the concepts behind REST is important, as well as applying to our application's functionality.

Team 6: Motorola

S Team 7 Status Report (1 of 4)

- Client Contact
 - Met with clients for lunch at TechSmith on 1-23-09
 - Scheduled weekly conference calls.
- Team Meetings
 - Weekly team meetings every Wednesday and Saturdays
- Team Organization
 - Client Contact: Stephanie, Webmaster: Jack, System Admins: Robert and Tom
 - Project Parts:
 - SDK Work: Robert and Stephanie
 - Video playback: Tom
 - Database and Audio Conversion: Jack

Team 7: TechSmith

0-29

S Team 7 Status Report (2 of 4)

- Server Systems / Software
 - Using Windows Server 2003
 - Installed SVN and IIS
 - Installed Windows SRE and SDK, PHP
- Development Systems / Software
 - Installed Windows Speech Recognition Engine and SDK, Visual Studio 2005
- Web Site
 - Web site is up and running
 - Consistently updated with meeting information

Team 7: TechSmith

S Team 7 Status Report (3 of 4)

- Project Definition
 - User uploads video to server
 - Audio stripped from video to create a captioned text file using SRE
 - Users may edit the captions to correct errors
 - Video playback on website
- Project Plan Document
 - Create database to hold user videos
 - Create video playback functionality within different browsers
 - Create program to allow .wav files to be transcribed

Team 7: TechSmith

S Team 7 Status Report (4 of 4)

- Risks
 - Development with the SDK
 - Description: Uploading and transcribing audio.
 - Mitigation: Research and practice with SDK on local machine.
 - Synchronization
 - Description: Synchronize text with audio and video, allow caption for multiple speakers, allow for caption correction.
 - Mitigation: Could use XML output since it has had success with Adobe.

Team 7: TechSmith

S Team 8 Status Report (1 of 4)

- Client Contact
 - Most of contact with client is done via email
 - First conference call with client was 1-16
 - Expect weekly conference calls with client
- Team Meetings
 - Approximately twice per week in person
 - Lots of communication via Facebook and email
- Team Organization

– Michael Pawlowski	Client contact
– Brad Kasper	Webmaster
– Brian Beck	Server Admin
– Michael Vo	R&D
– Project plan pieced together bit by bit	

Team 8: Terex

S Team 8 Status Report (2 of 4)

- Server Systems / Software
 - Server 2003
 - IIS 6
 - SharePoint Enterprise 2007
 - Source Control: likely SVN or SourceSafe
- Development Systems / Software
 - Likely ASP.NET 2.0
 - Visual Studio 2005
- Web Site
 - Currently Operational
 - Being Maintained by Brian and Brad

Team 8: Terex

S Team 8 Status Report (3 of 4)

- Project Definition
 - Project Portfolio Management (PPM)
 - Used to track life cycle of all internal Terex projects
 - Used to create new projects and edit existing projects
 - Security permissions to be used on a person to person basis
- Project Plan Document
 - Project Plan well underway
 - Requirements, schedules and outline are in rough draft form
 - Still needs numerous man hours to complete

Team 8: Terex

S Team 8 Status Report (4 of 4)

- Risks
 - SharePoint
 - Must understand basic concepts behind SharePoint
 - Need to learn how to develop SharePoint applications
 - Books, other resources acquired
 - Scalability
 - Ensuring system is still functional for large-scale use
 - 18,000 employees in company
 - not all will use, but use level will be substantial
 - List Availability
 - Resources must be available to multiple SharePoint sites
 - Brian is looking into solutions to this issue
 - Integration Concerns
 - Need to merge our development with their existing SharePoint site(s)
 - Investigating methods of SharePoint migration

Team 8: Terex

S Team 9 Status Report (1 of 4)

- Client Contact
 - Nathan Fujimoto, Toro representative
 - January 17th - Team/Client Teleconference
 - Weekly 4 PM Tuesday Teleconference
- Team Meetings
 - January 20th – Triage Meeting
 - January 20th – Team Brainstorming Meeting
- Team Organization
 - Dom – API interfacing and XML information management
 - Dan – Graphical implementation, design, and flow
 - Lionel – Software to hardware communication
 - Brian – Application development and feature integration

Team 9: Toro

S Team 9 Status Report (2 of 4)

- Server Systems / Software
 - IIS and FTP enabled on team server
- Development Systems / Software
 - Visual Studio 2008 environment installed
 - Adobe Creative Suite obtained
- Web Site
 - Currently hosted on team server
 - Project description, architecture, and plan in development

Team 9: Toro

S Team 9 Status Report (3 of 4)

- Project Definition
 - Design Graphical User Interface (GUI) for use in irrigation and landscape lighting system
 - Deployable on an array of irrigation controllers
 - Create customized irrigation schedules based on zone topology, weather information, and calendar
- Technical Specification Document
 - Visual Studio C# and XML implementation
 - Proprietary Toro controller data format translation

Team 9: Toro

S Team 9 Status Report (4 of 4)

- Risks
 - Software
 - Translate XML data into proprietary data format
 - Mitigation – Learn current model's method
 - Hardware
 - Communication with controller
 - Mitigation – Establish primitive communication and build upon it
 - Design
 - Implement graphically built mock-ups into Visual Studio design architecture
 - Mitigation – Understand relationship between Visual Studio graphical user interfaces

Team 9: Toro

S Team 10 Status Report (1 of 4) →

Team 10: Urban Science

- Client Contact
 - Primary Capstone Contact: Jason Weber
 - Primary Urban Science Contact: Jay, Mark
- Team Meetings
 - 4 meetings with Capstone and Urban Science
 - 5 meetings solely with Capstone
- Team Organization
 - Client Contact, Database Admin: Jason
 - Web Admin: Jeremy
 - Program Manager: Jeff

S Team 10 Status Report (2 of 4) →

Team 10: Urban Science

- Server Systems / Software
 - MS Windows 2003 Server, IIS 6.0, VS2008, MS SQL 2008, VisualSVN
- Development Systems / Software
 - MS Windows XP SP3, IIS 5.1, VS2008 with Silverlight SDK, Expression Blend 2, TortoiseSVN
- Web Site
 - Updated title, team member names, Urban Science logo, team meeting minutes, project description, project schedule, and other links

S Team 10 Status Report (3 of 4) →

Team 10: Urban Science

- Project Definition
 - Provide a map-based UI using Silverlight which allows an OEM to easily manipulate PMA boundaries based on census tract data from the Census Bureau
 - Efficiently load vector-map information on all zoom levels
- Project Plan Document
 - Functional Specifications – confirming with Client
 - Design Specs – under brainstorming
 - Developing Project Plan Skeleton/Outline

S Team 10 Status Report (4 of 4) →

Team 10: Urban Science

- Risks
 - Vector-Map Interaction
 - Manipulation of polygons on a vector based image stored in an SQL db
 - Deep familiarity with Silverlight controls and MS SQL 2008 interactivity will help mitigate
 - Propagating changes dynamically to upper layers
 - When manipulating PMA boundaries, changes must be propagated to the upper levels – still allowing the user to have a fast experience
 - Assigning low priorities to upper level boundary changes which the user doesn't see will help mitigate
 - Determining the outer boundaries of a group of polygons