Team Auto-Owners
Status Report

Agent Multimedia Advertisement Builder
• Project Description
  • Revamping ‘Media Center’ of Auto-Owners website.
  • Create a customizable advertisement based upon an individual agency.
  • Allow for uploaded materials to be used in a custom ad.
  • Create administrator privileges.
• Project Plan Document
  • 50% Completed
  • Functional Specifications Completed
  • Design Specification Not Completed
  • Schedule Created

Agent Multimedia Advertisement Builder
• Server Systems / Software
  • DB2 Express-C – Installed, need to set up
  • Websphere – Installed, running properly
  • Windows Server 2008 – Installed
• Development Systems / Software
  • Java Development in Eclipse – Hello World created
  • SVN Eclipse Plugin – Installed, need to set up repository
  • Struts 2 – Installed Need to learn how to use

Team Auto-Owners
Status Report

Agent Multimedia Advertisement Builder
• Client Contact
  • Met in person, constant email contact
  • Weekly Conference Calls: Wednesday 2pm
• Team Meetings
  • Group Meetings – Monday Wednesday: 4pm
  • Triage Meetings – Wednesday 2:40pm
• Team Organization
  • Joe Korolewicz – Project Manager/Client Contact
  • Patrick Nelson – System Administrator
  • Dan Jones – Lead Developer

Agent Multimedia Advertisement Builder
• Risks
  • Manipulating Graphics in Web Environment
    • We need to be able to manipulate the ads shown to the user.
    • We will start working with this immediately when our web environment is available.
  • Java Development
    • All Java development is new to us.
    • Reading documentation, starting to write small programs.
  • User Authentication/Security
    • Agencies must log into their confidential Auto-Owners ID.
    • Receive and use “dummy” agencies with the same format.
  • Server Set Up
    • Need to find a way to get the server set up.
    • Reading documentation/Trial and error
Boeing Battle Aircraft Position Share

Team Boeing
Status Report
(1 of 4)

• Project Description
  - 3D 2 player air combat strategy game
  - Played over encrypted network
  - Active time (mix of turn based and real time)
  - Radar detection of targets, environmental effects
• Project Plan Document
  - Rough draft started
  - Executive summary completed
  - Other sections outlined

Boeing Battle Aircraft Position Share

Team Boeing
Status Report
(2 of 4)

• Server Systems / Software
  - Windows XP installed on desktop
  - Windows 7 to be installed on desktop
  - Arch Linux installed on server
• Development Systems / Software
  - Blender, Open Scene Graph installed
  - Visual Studio 2005 installed
  - Python installed

Boeing Battle Aircraft Position Share

Team Boeing
Status Report
(3 of 4)

• Client Contact
  - 2 conference calls, Thursdays 5:10-6:10pm
  - Established milestones, basic project outline
• Team Meetings
  - 2 times a week, 1-2 hours long, after class
  - Triage meetings Mondays after class
• Team Organization
  - Paired programming, graphics and logic
  - Trying out Microsoft Project to manage team

Boeing Battle Aircraft Position Share

Team Boeing
Status Report
(4 of 4)

• DLLs
  - What to use them for in context of this project?
  - Discuss with client, read info on dlls online
• Open Scene Graph
  - No one has used it
  - Online tutorials, reference manual
• Blender
  - Use and exporting of models
  - Online tutorials, Blender website
• Networking
  - No knowledge of encryption, Windows sockets
  - MSDN tutorials, knowledge of Linux sockets
Team Chrysler
Status Report

Fleet Auction Distribution and Sale Optimizer
- **Project Description**
  - Deal with returned fleet vehicles for re-distribution
  - Distribute the vehicles geographically to various auction sites throughout the nation (15)
  - Optimize and decide which auction site should vehicles be distributed to in order to yield the highest ROA
- **Project Plan Document**
  - Created skeleton document
  - Shared google document amongst team
  - Working through document in parallel

Team Chrysler
Status Report

Fleet Auction Distribution and Sale Optimizer
- **Server Systems / Software**
  - Linux
  - DB2
  - Websphere 7.0
- **Development Systems / Software**
  - Java
  - JRuby
  - Rails

Team Chrysler
Status Report

Fleet Auction Distribution and Sale Optimizer
- **Client Contact**
  - At least once a week.
  - Scheduled visit on 1/27 in Detroit
  - 1/14: Clarified project goals and technical resources/tools
  - 1/21: Approved use of our technical tools. Clarified specific project details.
- **Team Meetings**
  - Every Sunday
  - 2-3 times throughout the week
- **Team Organization**
  - Web/Design Team
  - Data Optimization Team

Team Chrysler
Status Report

Fleet Auction Distribution and Sale Optimizer
- **Risks**
  - **Algorithm**
    - Many factors involved in determining the most profitable auction site.
    - Clearly establish critical factors early.
  - **Design**
    - Most efficient and user-friendly? Meets professional expectations?
    - Lots of prototype presentations to clients.
  - **Server Environment**
    - Our staging server is different OS than production.
    - Close contact with clients for compatibility approval.
    - Using a trial version of websphere (60 days)
    - Have back-up plan for alternative software.
Team Dow
Status Report

Business Approval System
• Project Description
  ▪ Create a reusable SharePoint approval workflow
  ▪ Duplicate the Dow Spending Delegation of Authority process
  ▪ Create a solution that works on various devices
• Project Plan Document
  ▪ The first draft of the project plan is 35% complete

Risks
• Risk 1
  ▪ Lack of understanding of SharePoint
  ▪ Reading up on SharePoint
• Risk 2
  ▪ Minimum knowledge of programming in C#
  ▪ Practice programming with C# and read up on it
• Risk 3
  ▪ Lack of knowledge of Dow Spending Delegation of Authority process
  ▪ Continued communication of with the client contacts at Dow

Server Systems / Software
• Windows Server 2008 R2 is installed and fully updated
• SharePoint Server 2010 is installed and configured
• Visual Studio 2010 installed and configured for web development

Development Systems / Software
• Windows 7 64-bit installed
• Visual Studio 2010 installed and configured
• SharePoint Designer installed

Client Contact
• Two conferences calls resulting in a better understanding of the requirements

Team Meetings
• Systems configured
• Project Plan Documentation

Team Organization
• Client Contact – Joe Langford
• System Administrator – Joe Amenta
• Developer - John Furcean
**Team GE Aviation**

**Status Report**

**MSU Next Generation Flight Deck**
- **Project Description**
  - New graphical displays
  - Increase safety on board
  - Integrates previous capstone projects
- **Project Plan Document**
  - Wiki set up as “Living” plan and design documentation
  - Created an overall project schedule

**Server Systems / Software**
- Windows Server 2008
- Microsoft IIS with PHP & MySQL
- VisualSVN Server, MediaWiki, & Mantis Bug Tracker

**Development Systems / Software**
- Visual Studio 2008 SP1
- X-Plane and the X-Plane SDK
- OpenGL, Boost, Nui, & Xtools
- Industry knowledge of Avionics

**Client Contact**
- Initial face-to-face meeting
- Set up twice-weekly conference calls (Tues. & Fri.)

**Team Meetings**
- Twice weekly, immediately prior to or after conference calls
- Triage meeting every Wednesday at 4:00 pm

**Team Organization**
- Systems Admin. – Steven; Client Contact – Daniel;
  - Networker – Bill; Tester - Alex

**Risks**
- **Risk 1 – Lack of experience**
  - Unfamiliarity with X-Plane and existing projects
  - Each individual will specialize in one plugin
- **Risk 2 – Concurrency issues**
  - Making sure that plugins and systems do not interfere with each other
  - Assigned to Daniel as a primary task
- **Risk 3 – Bad Behavior**
  - Individual components currently have significant bugs
  - Assigned to individuals using Mantis Bug Tracker
- **Risk 4 - Networking**
  - Network implementation may cause unforeseen issues
  - Assigned to Bill as a primary task
Team Medtronic
Status Report
(1 of 4)

Cloud-Based Hospital Digital Command Center
- Project Description
  - Create portal application to aggregate medical repositories
  - Utilize Windows Azure Cloud Platform to ensure extensibility
  - Support multiple forms of digital communication
  - Build a system allowing role-specific views of data
- Project Plan Document
  - Made basic outline of required sections
    - Executive Summary, Project Overview, Statement of Requirements, Design & Implementation
  - Will complete details after client site visit

Team Medtronic
Status Report
(2 of 4)

Cloud-Based Hospital Digital Command Center
- Server Systems / Software
  - Windows Azure Cloud Platform
  - Microsoft Office 365 Cloud Services
  - Microsoft HealthVault
- Development Systems / Software
  - Visual Studio 2010 Ultimate
  - ASP.NET/C#
  - Windows 7 Professional 64-bit

Team Medtronic
Status Report
(3 of 4)

Cloud-Based Hospital Digital Command Center
- Client Contact
  - Weekly teleconference on Tuesdays, 2:15-3:15 pm
  - Client site visit scheduled for February 1st-2nd
- Team Meetings
  - Weekly triage meetings on Mondays, 2:40-3:00pm
  - Weekly team meetings on Wednesdays, 4:00-7 pm/am
- Team Organization
  - Client contact - Evan Francis
  - Artifacts/deliverables manager - Caitlin Russ
  - Everyone holds each other accountable; weekly goals assigned

Team Medtronic
Status Report
(4 of 4)

Cloud-Based Hospital Digital Command Center
- Interfacing with Windows Azure Platform
  - Learn the APIs and libraries
  - Solution: Research, documentation, and tutorials
- Integrating MS Office 365
  - Identify and understand which components to use
  - Solution: Speak with client
- Utilizing MS HealthVault
  - Determine system infrastructure and communication protocol
  - Solution: Research and developer tutorials
- Security and integrity of systems
  - Design a system with varying levels of security in mind
  - Solution: Integrate Windows Azure AppFabric Access Control
Team Meijer
Status Report

Consumer Payroll Check Cashing System
• Project Description
  ▪ Meijer has a Payroll Check Cashing System
  ▪ Possibilities of fraudulent checks
  ▪ Create a web service to track and analyze data
  ▪ Send out alerts based upon trend data
• Project Plan Document
  ▪ About 80% complete
  ▪ Had Meijer contact review and accept the plan
  ▪ Need to review for grammatical mistakes and overall team acceptance

Client Contact
• Had Phone Conference with client and setting up second one
• Approved initial project plan

Team Meetings
• Have met up to discuss project after phone conference
• Plan to have a scheduled meeting once a week

Team Organization
• The project is split into layers for each team member to complete
• Keep in constant contact through phone/email

Risks
• Risk 1
  ▪ Implement Meijer.ent
  ▪ Work with contact to understand how it works
• Risk 2
  ▪ Consumer may not accept parts of the project
  ▪ Send a test build to the contact every 2 weeks for approval
• Risk 3
  ▪ Database Change/New Database Server
  ▪ Build project in layers to minimize code changes
• Risk 4
  ▪ An outside library that we choose to use may not work
  ▪ Have a wide variety of outside libraries to choose from
Team Motorola Mobility
Status Report (1 of 4)

Companion Authoring Services
- Project Description
  - Admin Panel to Manage Secondary Content Lifecycle
  - Display secondary metadata on the portable device in selectable layers and allow interaction based on the consumer’s preference.
  - Format Content Delivery Model after current Cable Service Ads
- Project Plan Document
  - Formatted Template
  - Executive Summary Complete
  - Architecture and Design – Rough Draft

Team Motorola Mobility
Status Report (2 of 4)

Companion Authoring Services
- Server Systems / Software
  - 2 iMacs – Mac OS X and Windows XP
  - Server 2008 with Glassfish
  - Windows 7 Machine
  - iPad mobile device
- Development Systems / Software
  - Eclipse Java EE
  - RESTlet, Xstream, and iBatis
  - Google Web Toolkit and Vaadin Framework
  - Xcode

Team Motorola Mobility
Status Report (3 of 4)

Companion Authoring Services
- Client Contact
  - Conference Calls Monday and Wednesday afternoons
  - Google Talk/email conversations when available
- Team Meetings
  - Triage Meeting Tuesdays 4:00-4:20 PM
  - Group Meeting Tuesdays 4:30 PM
- Team Organization
  - Client Contact – Rory Hool
  - System Administrator – Haohan Lin
  - UI Developer – Chris Goad
  - Backend Developer – Alex Boyd/Rory Hool

Team Motorola Mobility
Status Report (4 of 4)

Companion Authoring Services
- Risks
  - Set Top Box Communication
    - Mobile apps must synchronize with STB
    - Met with previous semester’s group, read information provided by Motorola
  - Controllers – RESTlet
    - Using RESTlet to make RESTful web services
    - Read book chapters, made sample programs
  - Views – Java, GWT, Vaadin, iPad
    - Writing Content Authoring Tool, creating mobile apps
    - Went over examples online, made sample programs
  - Models – XStream, iBatis, PostgreSQL
    - Serialize Java Objects using XStream, iBatis Persistence layer for PostgreSQL
    - Implemented iBatis persistence layer with serialization using XStream
Team Raytheon

Status Report

Dynamic RF Spectrum Control Software
- **What:** Scan RF’s, Analyze/make recommendations, Split Signal
  - **Why:** Lots of wi-fi, finite bandwidth. Maintain service
  - **Who:** Armed Services (possibly Emergency Services)
  - **Where:** Android, SDR (SW-defined Radio), Laptop
  - **How:** IP, Spectrum graph, C Algorithm, EZ-Connect
- **Project Plan Document**
  - Develop Android Mockup
  - Android App/C Algorithm
  - EZ-Connect API, RF sampling hardware
  - Laptop implementation

Team Raytheon

Status Report

Dynamic RF Spectrum Control Software
- **Server Systems / Software**
  - Ubuntu Server (Working)
  - SVN (Set up)
  - SSH (Set up)
- **Development Systems / Software**
  - OS: Win7, Ubuntu, Android SDK (Ready to go)
  - IDE: Eclipse (Ready to go)
  - Client API: EZ-Connect, Access Policies/sample data (One-Three weeks)

Risks
- **EZ-Connect API**
  - **Description:** Foreign API, splits frequencies, they don’t have it!
  - **Mitigation:** Stub interface from Raytheon within 3 weeks
- **Radio Frequency Sampling Device**
  - **Description:** Source of our data to run application, no UI
  - **Mitigation:** Planning visits to play with hardware, SDR speaks C, uses TCP/IP
- **C Algorithm**
  - **Description:** User defined params, Provide feedback/recommendations
  - **Mitigation:** Variant of Bin-Packing problem, Android NDK
- **Laptop support**
  - **Description:** PC hosted, OS agnostic
  - **Mitigation:** Reuse graphics/Layout, Develop with QT

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Department of Computer Science
Michigan State University
Team Sparrow
Status Report

iSupport
• Project Description
  ▪ Comprehensive web-based tool incorporating document and communication tools
  ▪ Automatic notification feature
  ▪ On-call rotation schedule (system outage, other issues)
  ▪ Support data feeds from management tool, Altiris
• Project Plan Document
  ▪ Plan reviewed
  ▪ To be written

iSupport
• Server Systems / Software
  ▪ Windows Server 2008 R2
  ▪ SharePoint Server 2010
  ▪ Microsoft SQL Server 2008
• Development Systems / Software
  ▪ Windows 7
  ▪ SharePoint Designer 2010
  ▪ Microsoft SQL Management Studio 2008

iSupport
• Client Contact
  ▪ Reviewed project requirements/scope
  ▪ Viewed current system, contacted DBA
• Team Meetings
  ▪ Installed required softwares
  ▪ Configured SharePoint 2010
• Team Organization
  ▪ Maurice Wong (Project Manager)
  ▪ Brett McMillen (System Administrator)
  ▪ Ryan Hewitt (Project Developer)
  ▪ Dianna Kay (Project Tester)

Risks
• Risk 1 - SharePoint
  ▪ Learn/Understand concepts
• Risk 2 – Web How-Tos
  ▪ Research Google Maps mash ups
  ▪ Research contacting pagers from the web
• Risk 3 – Understanding Their System
  ▪ Database/Table schemas
  ▪ Research Altiris
Team TechSmith
Status Report (1 of 4)

WhiteCaps
- Project Description
  - Upload whiteboard pictures and metadata to cloud
  - iPhone app, Android app, and web site front-ends
  - User groups and permission management on all three
- Project Plan Document
  - 10% Completed
  - Tasks assigned to group members
  - Deadline for full completion is next Thursday
  - Plan on contacting TechSmith for their input on the document next week

Team TechSmith
Status Report (2 of 4)

WhiteCaps
- Server Systems / Software
  - Server Rack has Windows Server 2008
  - visualSVN is fully configured
  - Windows Azure credentials acquired from TechSmith
- Development Systems / Software
  - Development system loaded with Windows 7
  - Development Macbook loaded with OS X 10.6
  - Eclipse, Visual Studio, and Xcode installed and configured
  - Android and iPhone SDK's fully operational

Team TechSmith
Status Report (3 of 4)

WhiteCaps
- Client Contact
  - Planned weekly status reports and bi-weekly on site visits
  - Received development phones from client
- Team Meetings
  - Meet as a group Tuesdays and Thursdays
  - Plan to make significant decisions and progress on the project during these meetings
- Team Organization
  - Cassi Miller – Customer Liaison
  - Rob Allie – Project Manager
  - Dillon Walls – Webmaster
  - Matt Dobson – System Administrator
  - All Members - Developers

Team TechSmith
Status Report (4 of 4)

WhiteCaps
Risks
- Risk 1
  - We don't know the Windows Azure API
  - Matt and Dillon will use documentation to create a demo app
- Risk 2
  - None of us know java, the language used to create an android app
  - Cassi will learn and make a demo android app
- Risk 3
  - Interacting with the smartphone cameras
  - Rob will figure it out and make a demo
- Risk 4
  - Developing an application that uses QR codes
  - Matt and Dillon will find a library and determine where this part of the process fits best.
Team Urban Science Status Report

Bringing LeadTV to the Web
• Interactive Map Displaying “Leads”
  ▪ Leads == Potential Customers
  ▪ Add Interactivity to Existing LeadTV Project
  ▪ Helps Manufacturers Engage Prospective Buyers
  ▪ Bring to Web
• Project Plan Document
  ▪ Outline
  ▪ Functional Specifications

Risks
• Where is the data coming from?
  ▪ Leads come in from unknown sources in XML format
  ▪ Seeing them/have mockup data
• How are we getting it to the client?
  ▪ How can we display it on multiple platforms (windows, ipad, etc)
  ▪ Start with Java, try for thin-client app.
• How do we interface with current LeadTV?
  ▪ How do we make what they have now interactive?
  ▪ Meeting with LeadTV developers 1/26
• How do we store data?
  ▪ Once we have the Leads, what do we do with them?
  ▪ Storing them into a SQL database

Team Urban Science Status Report

Server Systems / Software
• Installed Server (Windows)
• SDKs

Development Systems / Software
• Eclipse (Java)
• Visual Studio

Team Urban Science Status Report

Client Contact
• Email and Conference Call
• Driving to Detroit Office Wednesday 26th

Team Meetings
• Triage Meetings Monday before class
• Weekly Lunch Meetings

Team Organization
• Client Contact/Sys Admin, Program Manager
• Developer, Assistant Developer/QA

Department of Computer Science Michigan State University