

The Computer Science Senior Capstone Experience

CSE498 Collaborative Design

Department of Computer Science and Engineering

Michigan State University

Fall 2007

Professor Wayne Dyksen

Course Objectives

- Complete a Large Software Project
 - Architect
 - Implement
 - Test
 - Document
 - Deliver
- For a Client
- From “Scratch”
- In 15 (Short) Weeks

Course Objectives

- Build and Administer Systems
- Use Advanced Tools And Environments
- Integrate Computer Science Knowledge

Course Objectives

- Work In A Team Environment
- Develop Communication Skills
- Develop Some Interview Talking Points

All-Hands Meetings

- MW, 3:00-3:50pm, CAS 172
- Presentations By
 - Professor
 - Teams
 - Status Reports
 - Demonstrations
 - Formal Presentations
 - Project Videos
 - Guest Speakers

All-Hands Meeting Agendas

08-27: Course Overview / Skills Inventory

08-29: Technical Specifications / Team Assignments

09-03: (Labor Day, No Meeting)

09-05: Project Schedule & Risk

09-10: Teams: Progress Reports

09-12: Prototyping

09-17: Teams: Technical Specifications / Schedule

09-19: Teams: Technical Specifications / Schedule

09-24: Teams: Technical Specifications / Schedule

09-26: Resume Writing & Interviewing

10-01: Creating & Giving Presentations

10-03: Comm Sci-Tech Exchange

10-08: Teams: Alpha Demonstrations

10-10: Teams: Alpha Demonstrations

10-15: Teams: Alpha Demonstrations

10-17: Teams: Alpha Demonstrations

10-22: Ethics

10-24: Intellectual Property and Copyright

10-29: Entrepreneurship

10-31: .NET Framework / C#

11-05: Teams: Progress Reports & Demos

11-07: Teams: Progress Reports & Demos

11-12: The Project Video

11-14: Camtasia Demo

11-19: Teams: Progress Reports & Demos

11-21: Teams: Progress Reports & Demos

11-26: Teams: Progress Reports & Demos

11-28: Teams: Progress Reports & Demos

12-03: Teams: Project Videos

12-05: Teams: Project Videos

12-07: Design Day

12-11: Teams: Project Videos

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Team 1 Auto-Owners Insurance
Team Picture

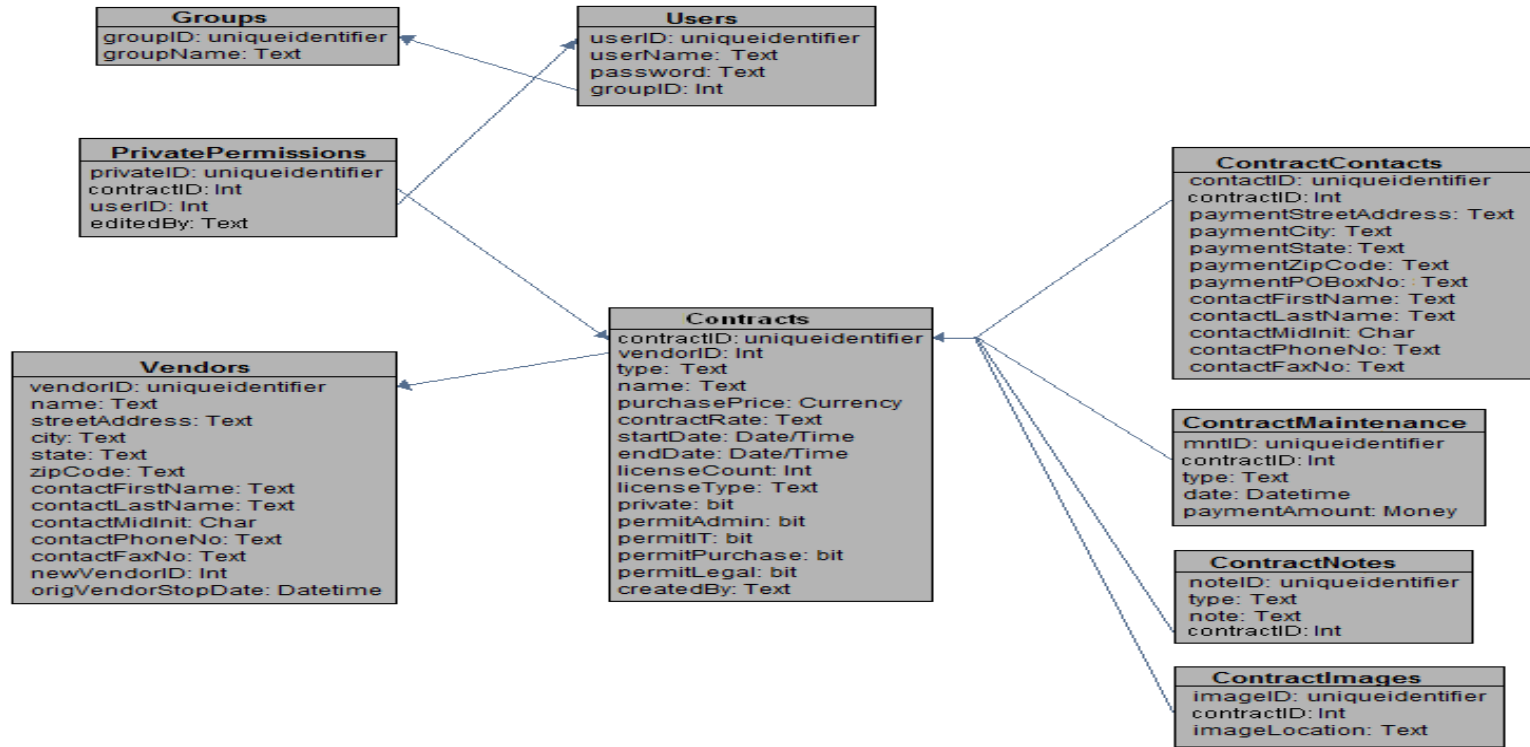
Team 1 Auto-Owners Insurance

Project Overview

Vendor Management System (VMS)

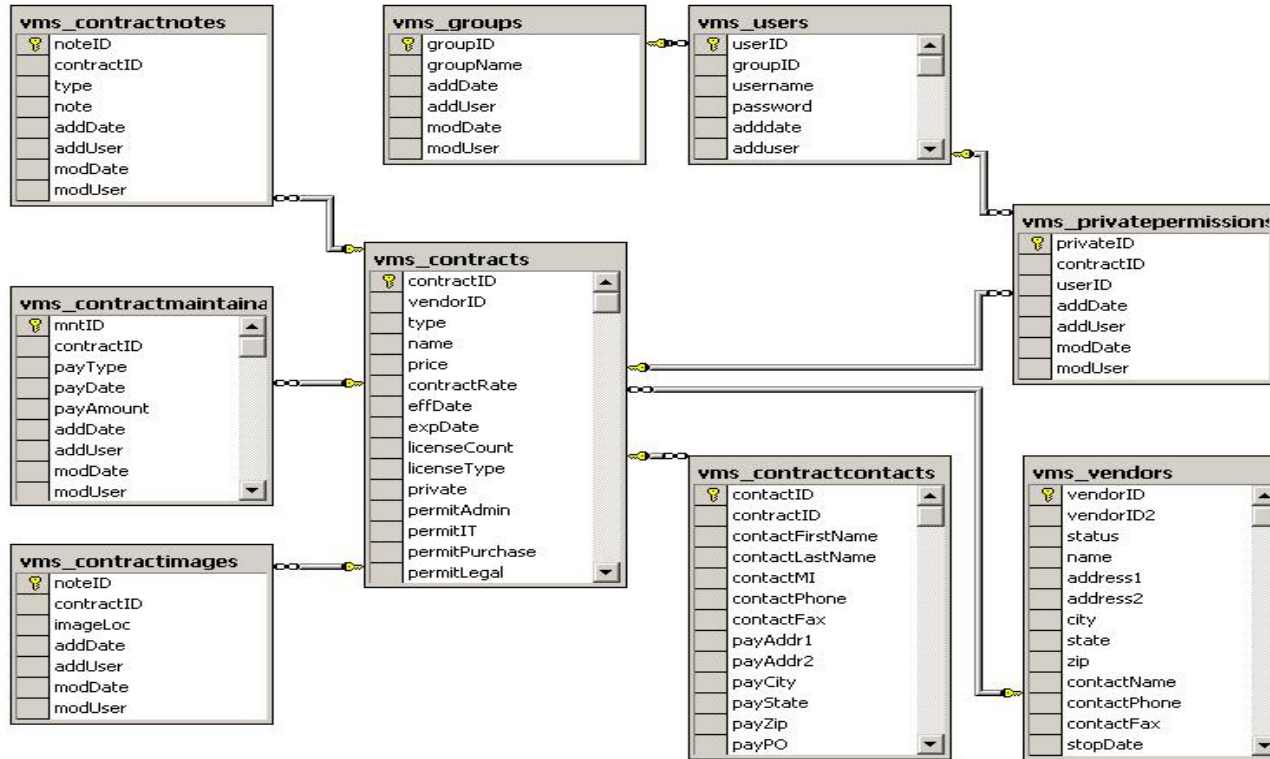
- Build VMS to Manage Third-Party Business Partners (BP's)
 - Software
 - Services
 - Technical Assistance
- Functionalities
 - Add, Delete, Modify
 - Merge (When One BP Buys Another)
 - Access and Display Related Documents (From Image Right Repository)
 - Track Renewals and Reviews
- Technologies
 - C#
 - .NET
 - SQL

Team 1 Auto-Owners Insurance Architecture Illustrated 1/3

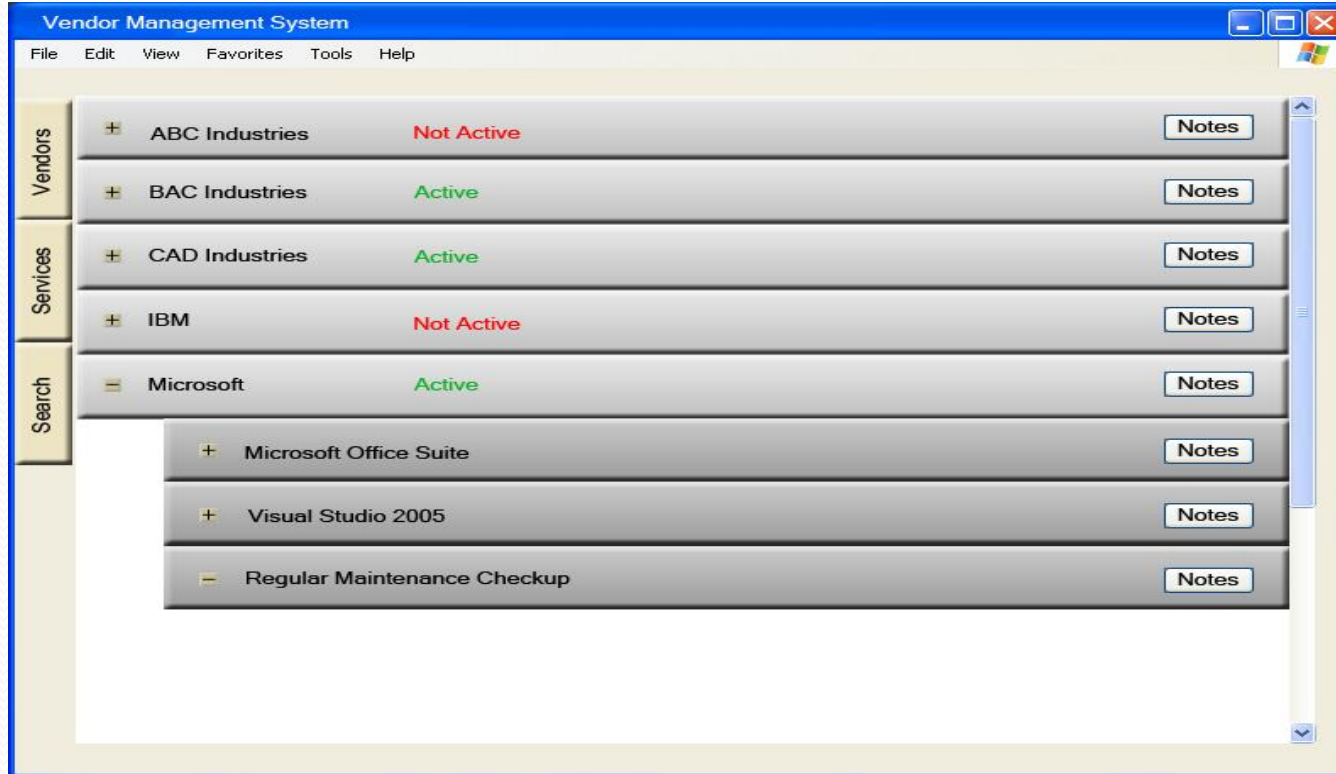


Team 1 Auto-Owners Insurance

Architecture Illustrated 2/3



Team 1 Auto-Owners Insurance Architecture Illustrated 3/3



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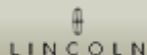
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Team 2 Ford
Team Picture

Team 2 Ford

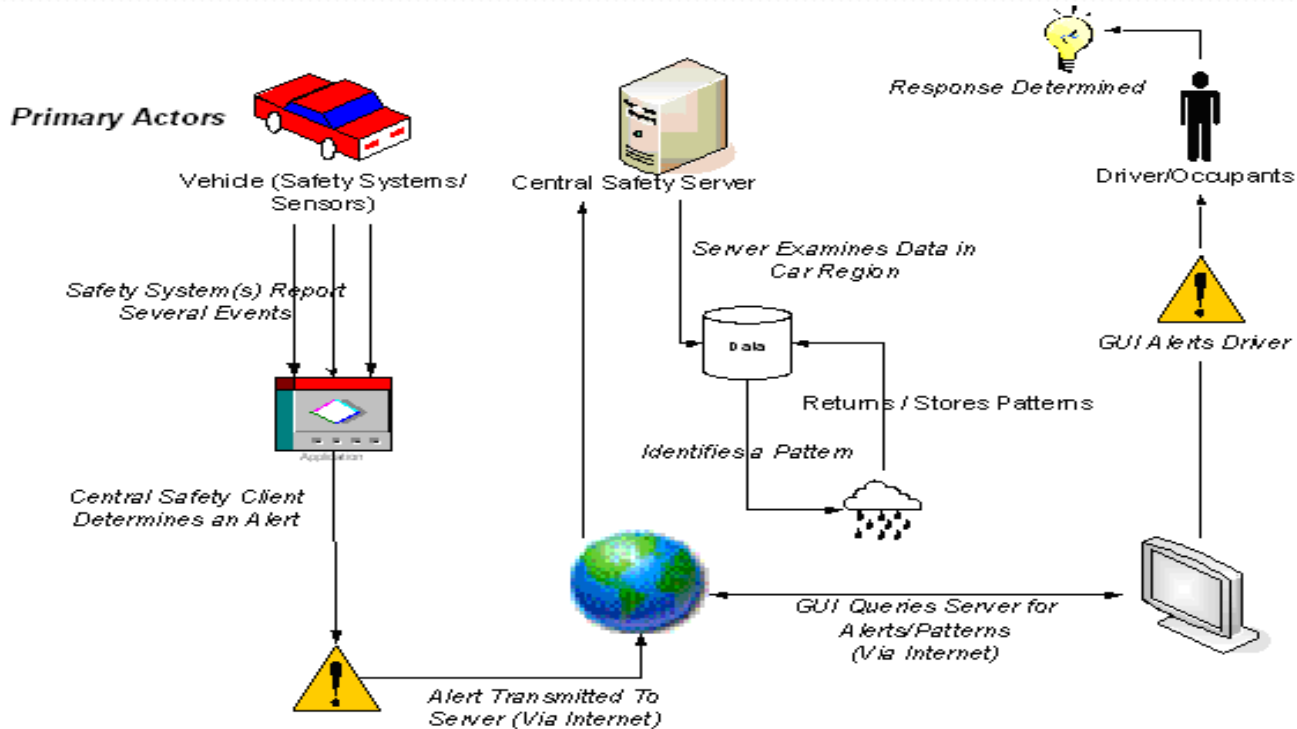
Project Overview

Ford Safety Index: Automotive Warning System

- Enable Driver to Avoid/Prepare For “Travel Troubles” by Leveraging In Vehicle Internet Connectivity
- Monitor Alerts Of Vehicle Safety Features
 - Traction Control
 - Roll Stability
 - Air Bag Deployment
 - Excessive Braking
 - Etc.
- Match Alert Patterns to Internet Information
 - Bad Weather
 - Traffic
 - Accidents
 - Etc.
- Possible Scenarios
 - Issue Patterns
 - Central Driver Alert Service
 - Visual Mapping
 - Notify Authorities
 - Instrument Panel Simulation

Team 2 Ford

Architecture Illustrated





United States [change]

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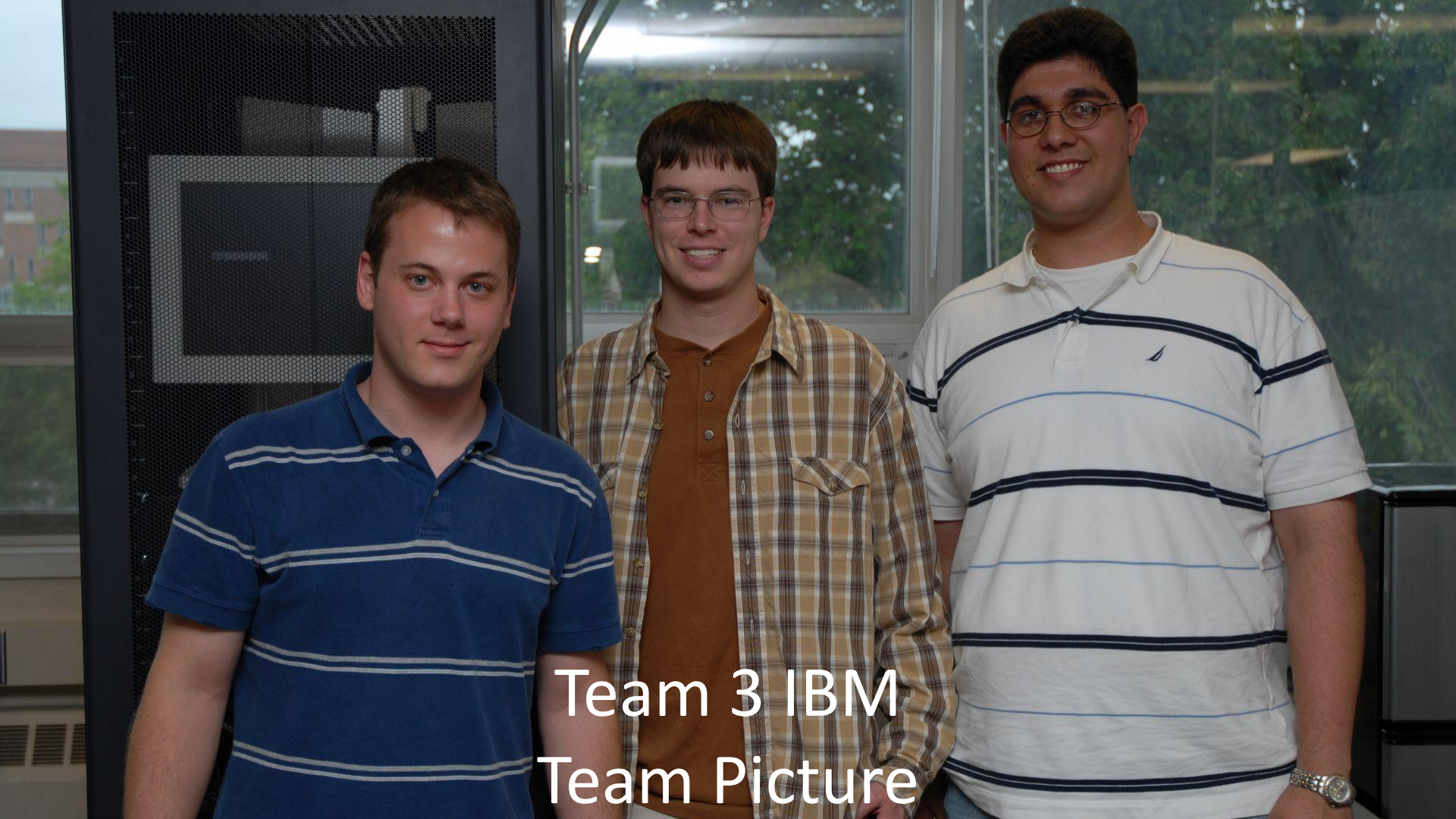
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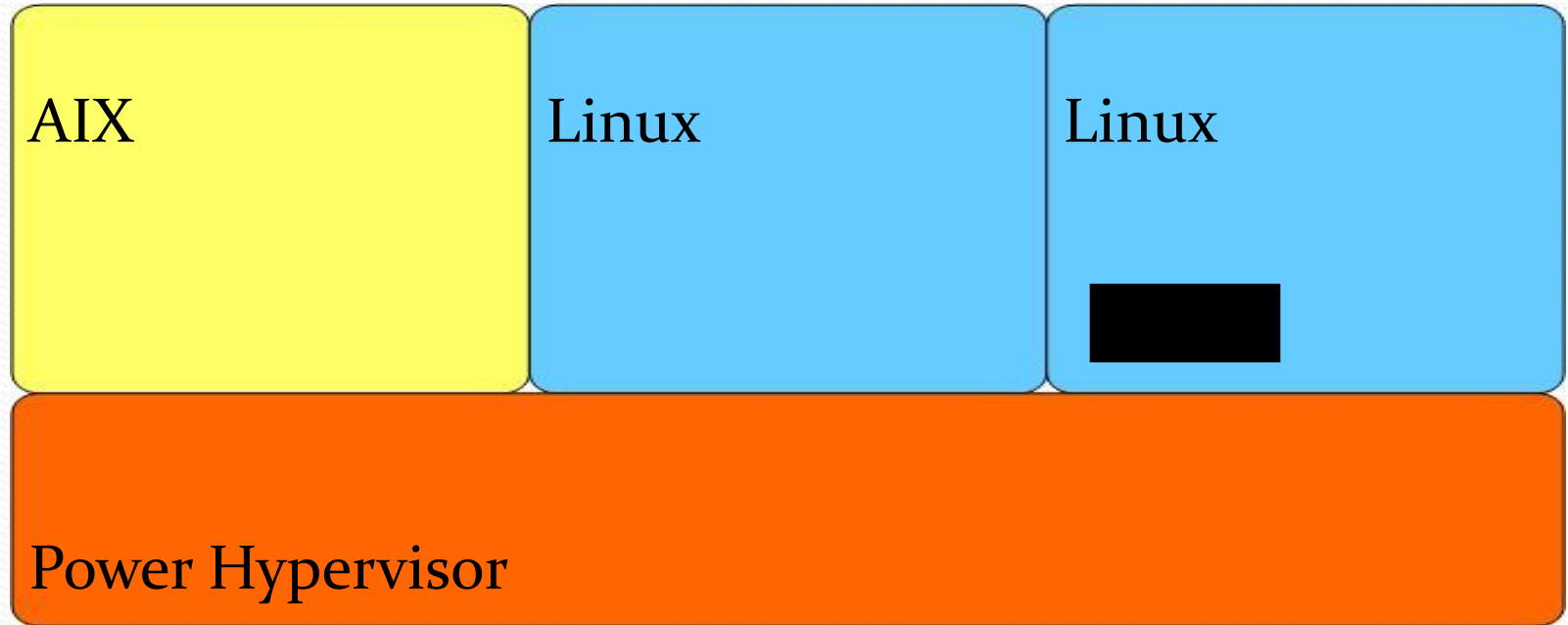
Team 3 IBM
Team Picture

Project Overview

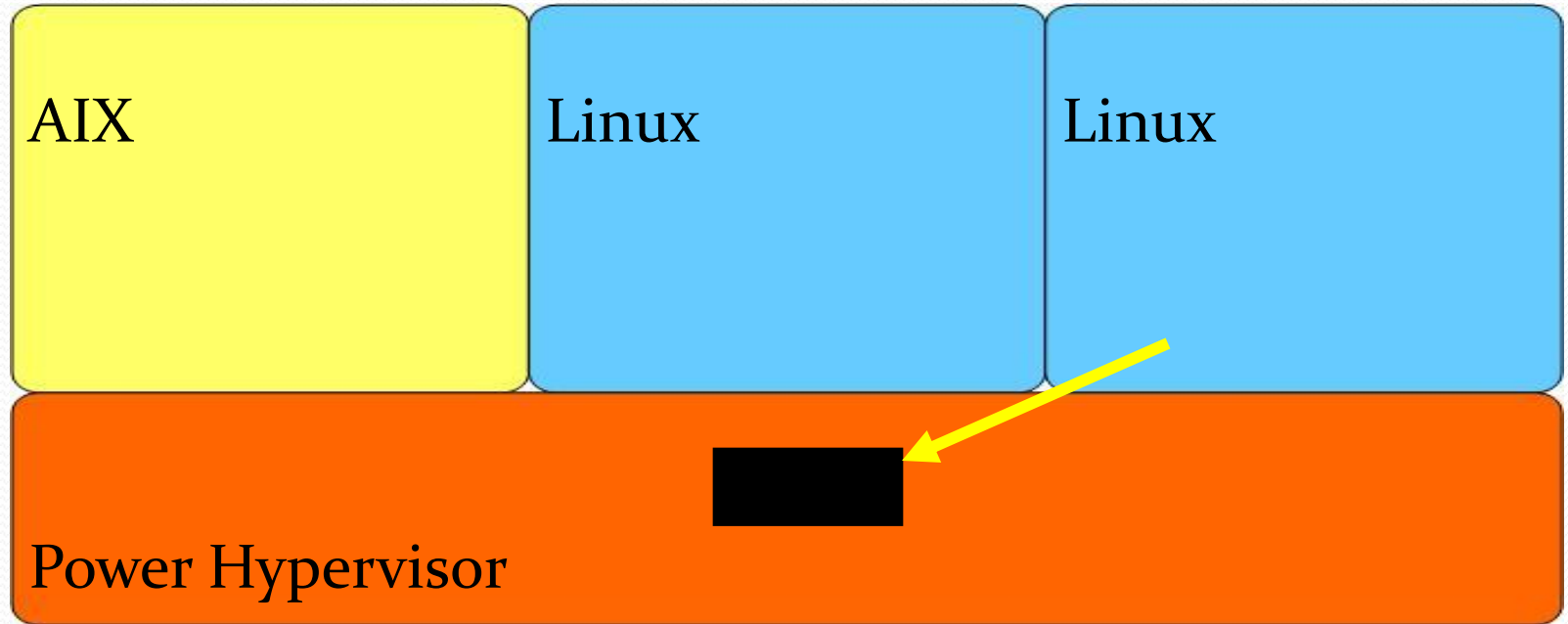
Enable Linux for Processor Folding

- Processor Partitioning
 - Partition Physical Processors into Logical Processor
 - Includes Dedicated Processors and Shared Processors
- Dedicated Processor Sharing
 - Intended to Make Use of Idle Dedicated Processors
 - Idle Dedicated Processor “Donated” to Shared Processor Pool (SPP)
 - Enabled by Turning on Flag in the Virtual Processor Area
- Processor Folding
 - Intended to Maximize Dedicated Processor Donation
 - Physical Processor Must Be Idle Before Logical Processors Donated
 - Pack Work Onto Minimal Number of Physical Processors
 - Must Tweak Kernel Dispatching Policies
- Requires
 - Linux Kernel “Hacking”
 - Running on IBM Multi-Processor Hardware

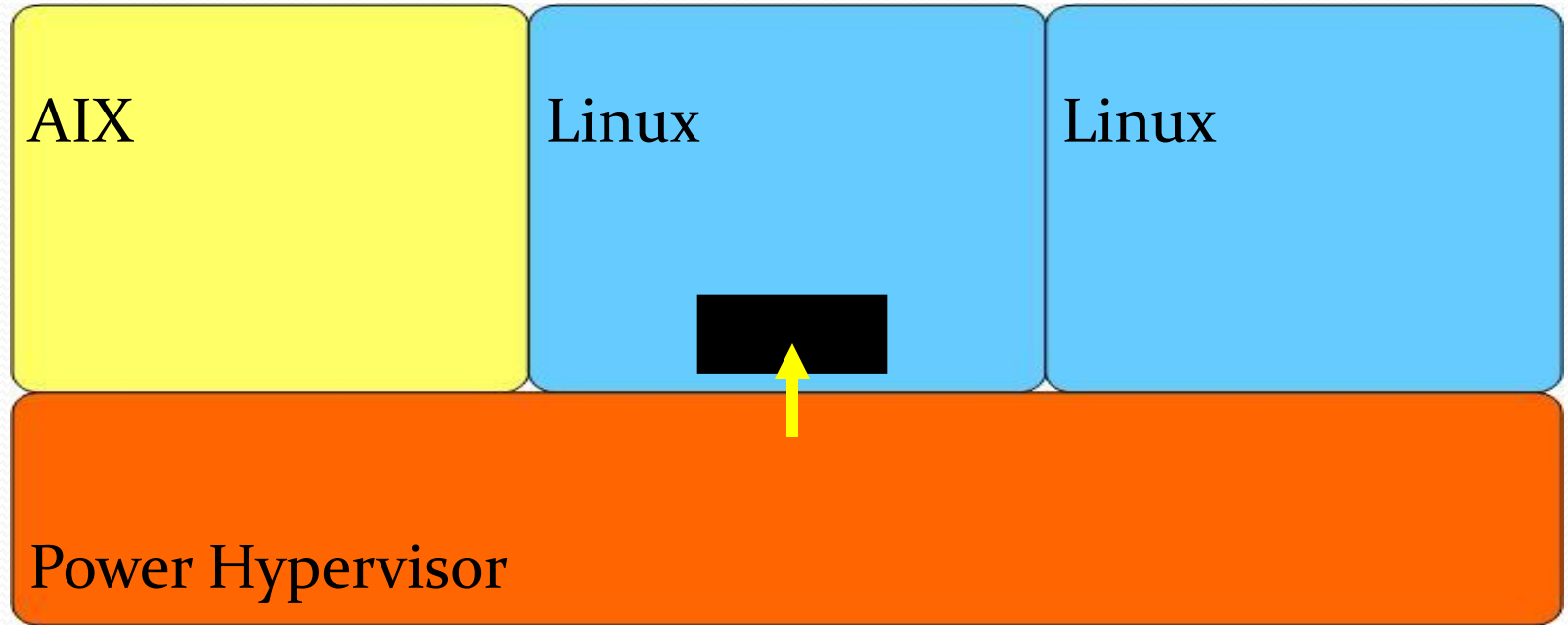
Processor Folding Illustrated



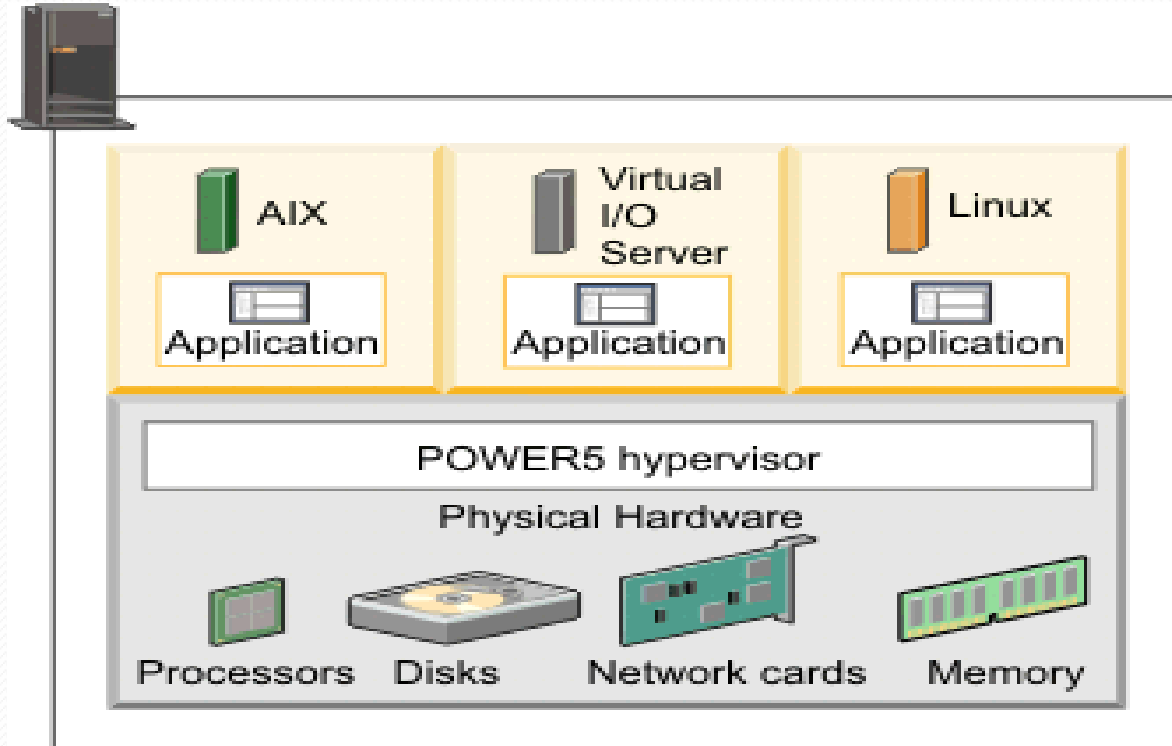
Processor Folding Illustrated



Processor Folding Illustrated



Architecture Illustrated



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Team 4 Motorola
Team Picture

Team 4 Motorola

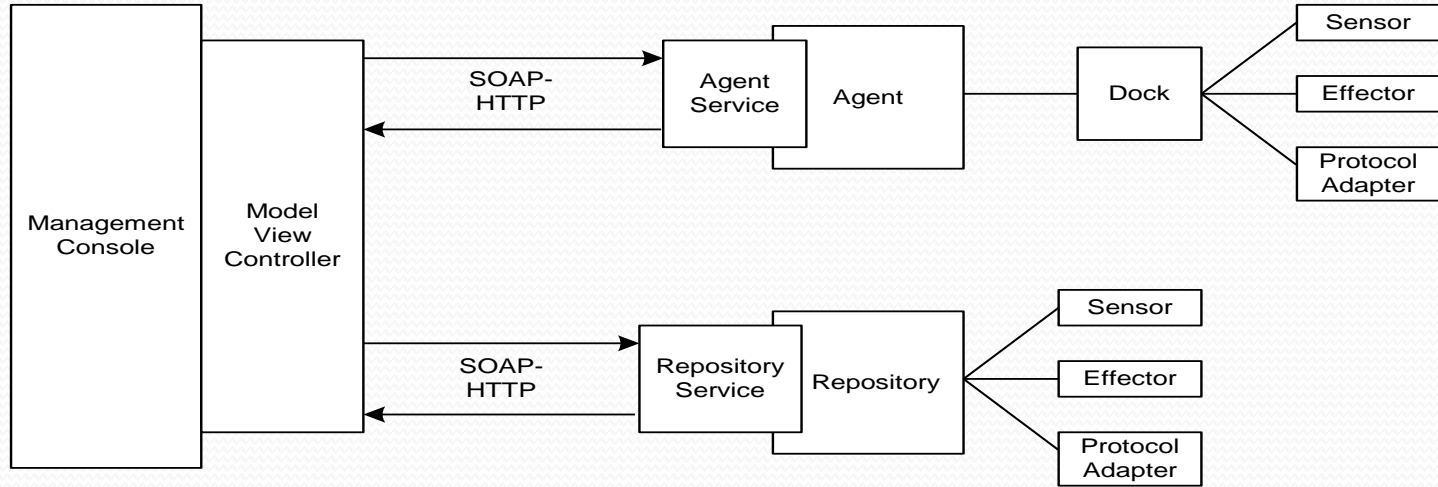
Project Overview

AJAX Based Management Console for the Agent Framework

- Remote Management of Entities
 - Complex, Heterogeneous
 - Routers, Switches, Etc.
- Agent Framework (Existing)
 - Agents Do Remote Management
 - Framework for Rapid Development of Agents
- Management Console (Proposed)
 - Interacts with Components Generated by the Framework
 - Manage Components
 - Query
 - Configure
 - Deploy
 - Graphical Interface via Web Browser

Team 4 Motorola

Architecture Illustrated





Removing roadblocks to revenue for the insurance industry through producer lifecycle automation.



- Home
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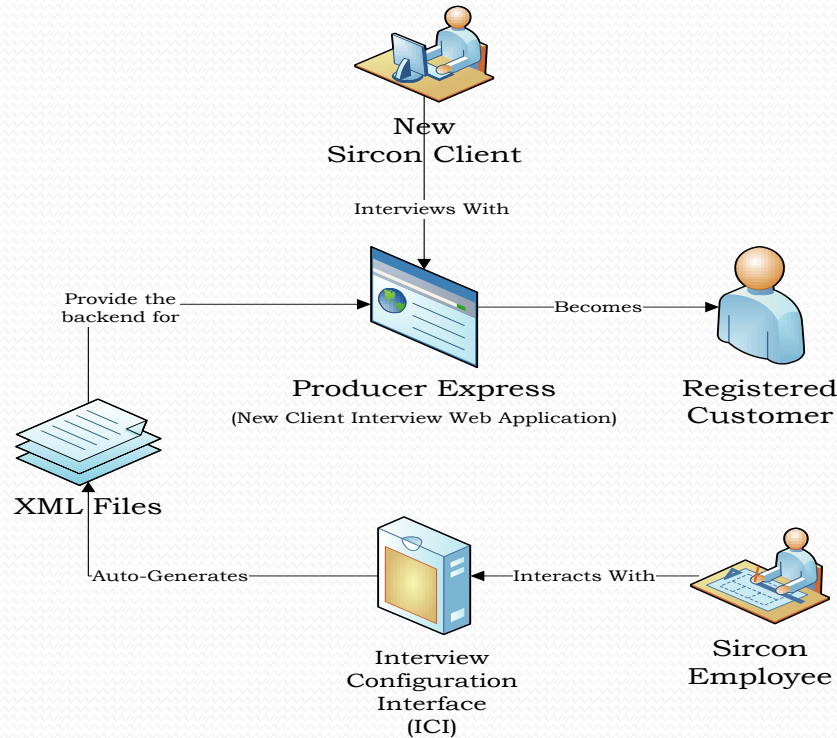
Project Overview

GUI Configuration Tool for Dynamic Interview

- Dynamic Interview
 - Interview in Which Subsequent Questions Depend on Answers
 - Similar to TurboTax
 - Currently Programmed “By Hand”
 - Time Consuming and Error Prone
 - Must Be Done by a Programmer
- Graphical Tool
 - Allows User to
 - Enter Questions with Answer Choices
 - Represent Question Dependencies
 - Generates XML Code Auto-Magically
 - Useable by Interview Designers (Rather Than Just Programmers)
- Technologies
 - Java
 - XML
 - Swing

Team 5 Sircon

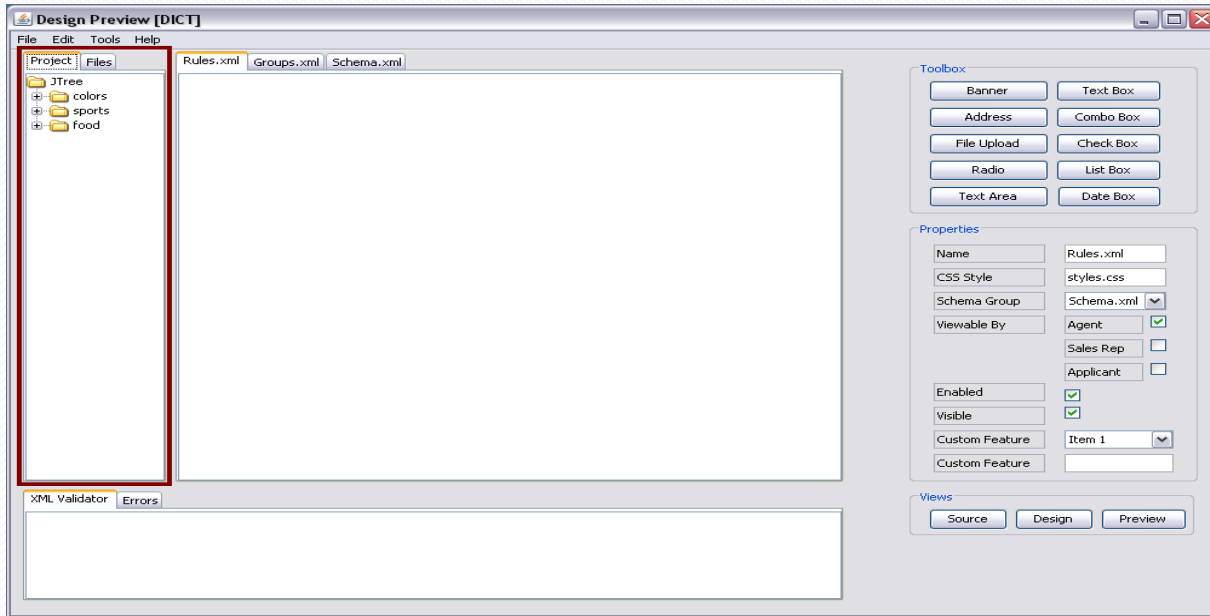
Project Overview



Team 5 Sircon

Functional Specifications

- File browser will allow the user to navigate through system directory, as well as project directory



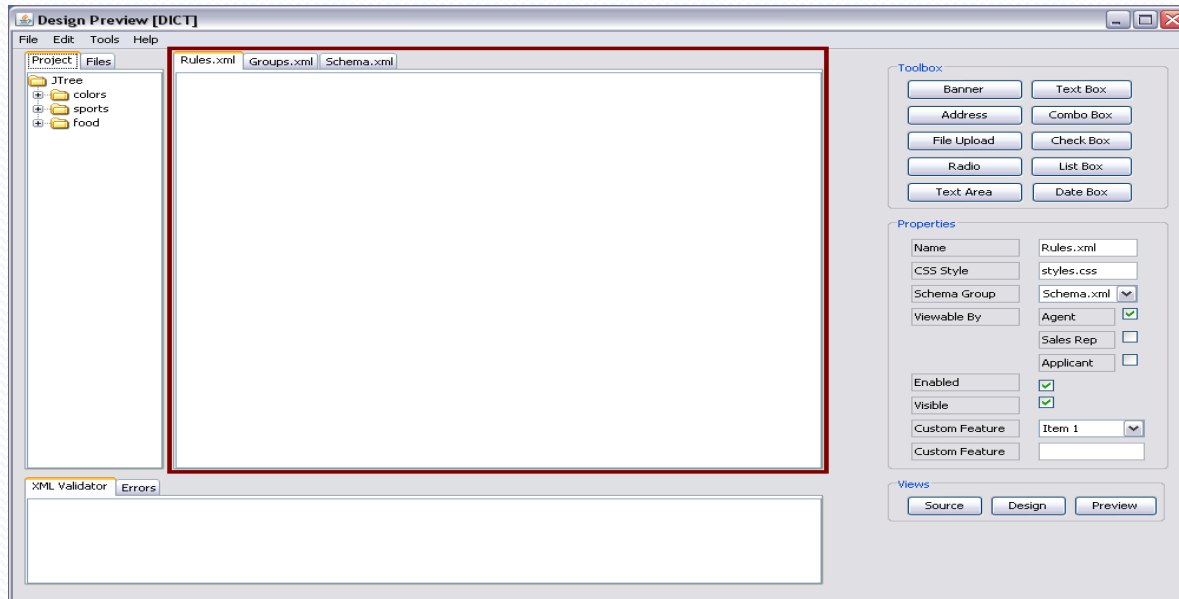
Functional Specifications

- Toolbox window containing the elements
- Elements are derived from the given schema



Functional Specifications

- Provide drag-and-drop functionality to re-organize form elements.
- Central panel for spatial layout of elements





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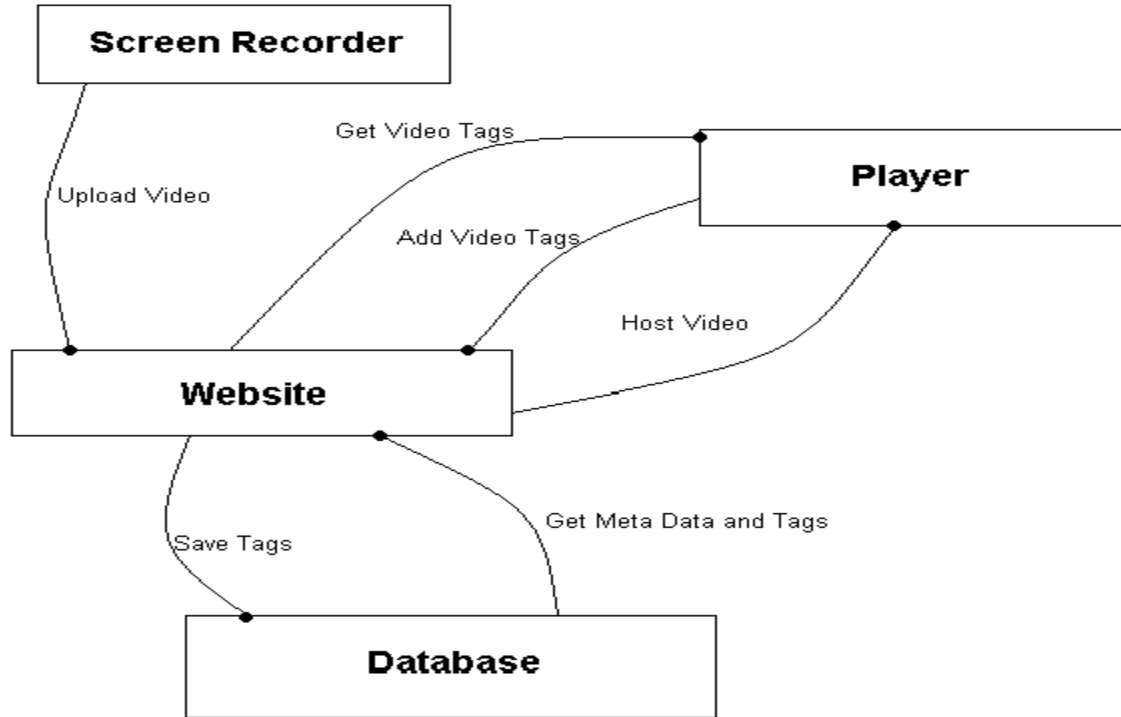
Team 6 TechSmith
Team Picture

Project Overview

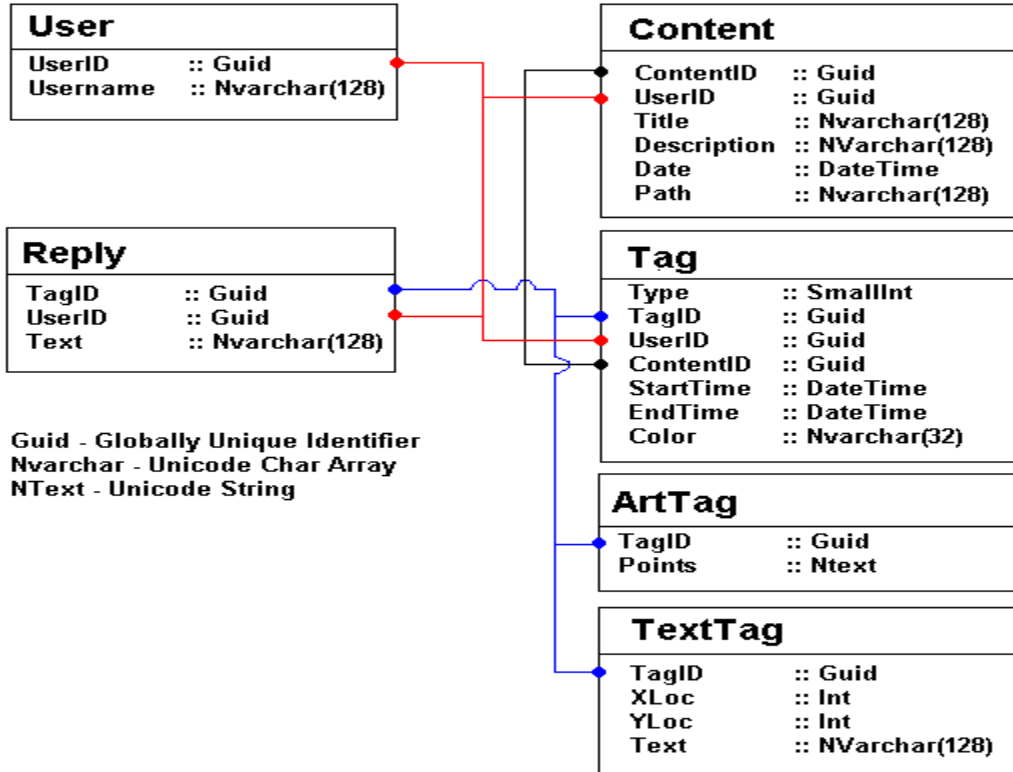
Rich Media Collaboration

- Rich Interaction and Conversation About Audio and Video Clips
 - More Than Playback, Text Commenting and Social Network Tagging
 - Like motionbox.com, veotag.com, or viddler.com
- Solution Based on Microsoft's Silverlight Technology
 - Screen Recording Tool
 - Content Hosting and Delivery Server
 - Silverlight Application and Web Site
 - For Both Content Author and Content Audience
 - Provide Rich Collaboration
- Requirements
 - Windows and Mac OS X Support
 - Browsers that Support Silverlight v1.1
- Technologies
 - C++ or C#/.NET or Both
 - TechSmith Screen Recorder SDK
 - Microsoft Silverlight v1.1
 - XAML, ASP.NET, HTML, CSS, Javascript, AJAX, Etc...
 - Microsoft Windows Presentation Foundation
 - Microsoft Windows Media Format SDK
 - Microsoft IIS

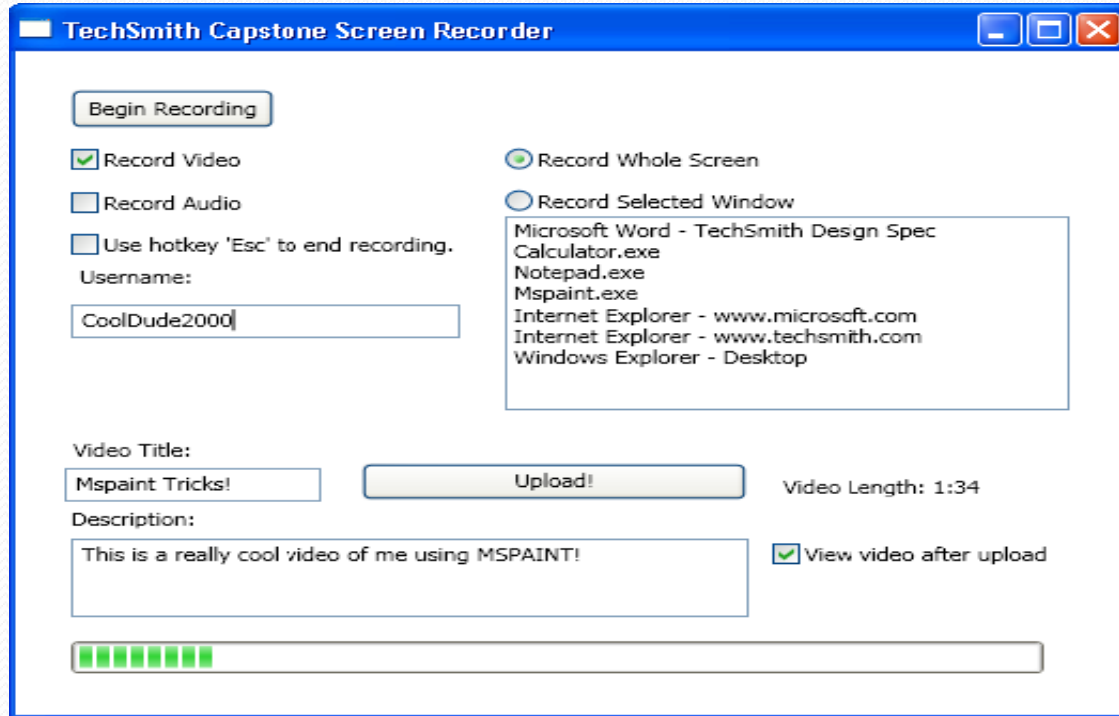
Team 6 TechSmith Interaction



Team 6 TechSmith Database

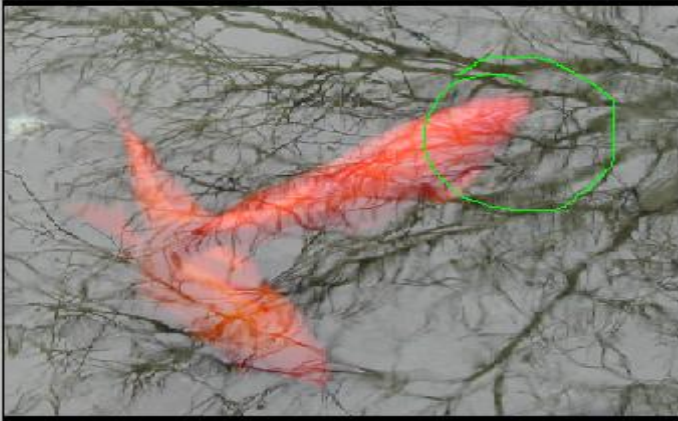


Recorder Mockup




Player Mockup

Fish.wmv






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- T** user129 [reply](#) 00:32
" That was really silly "
- T** user008 [reply](#) 00:49
" That was cool. "
-  user008 [reply](#) 00:49




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Replies:

user129
" No it wasn't. "

T    **Color**

Clear Screen

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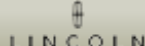
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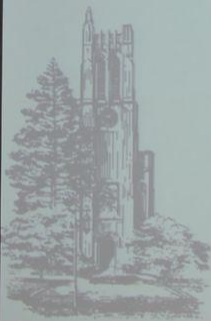
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4. Teams: Status Reports



CSE 498, Collaborative Design

Wayne Dyksen

Department of Computer Science and Engineering
Michigan State University

Fall 2007

Team 1 Auto-Owners Insurance
Status Report

S Team 1 Status Report (1 of 4)

Team 1: Auto-Owners Insurance

- Auto Owners Insurance
 - Met with Tim/Doug on Sept 4th
 - Next meeting set up for Sept 11th
 - Discussed Project Specs, Got a Tour!
- Team Meetings
 - Have Met Multiple Times
 - Set up IIS/Server/Skeleton of Tech Spec
- Team Organization
 - Tony-Client Contact, Joe-Group Website Admin
 - Chad-Technical Writer, Chung-Hua-Graphics Design



Team 1 Auto-Owners Insurance
Status Report



Team 1 Auto-Owners Insurance
Weekly Triage Meeting with Matt

S Functional Specifications

- 4 distinct user group permissions: Administrator, IT management, Purchasing, and Legal
- Ability to add / edit / delete
- Search functionality for contracts / services and vendors
- Built-in security features including login and private data items
- Ability to have a running list of "notes" (blog style) associated with data items

Team 1: Auto-Owners Team

Team 1 Auto-Owners Insurance
Technical Specifications Presentation



Team 1: Auto-Owners Insurance

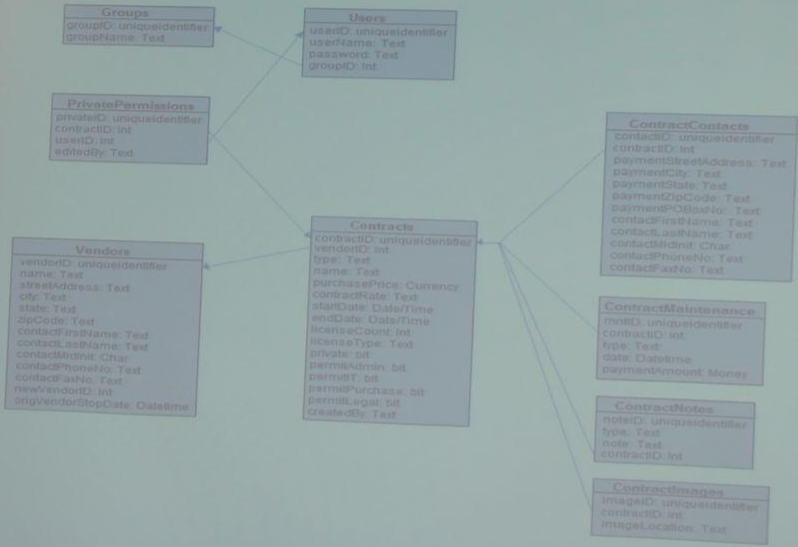
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Team 1 Auto-Owners Insurance Technical Specifications Presentation



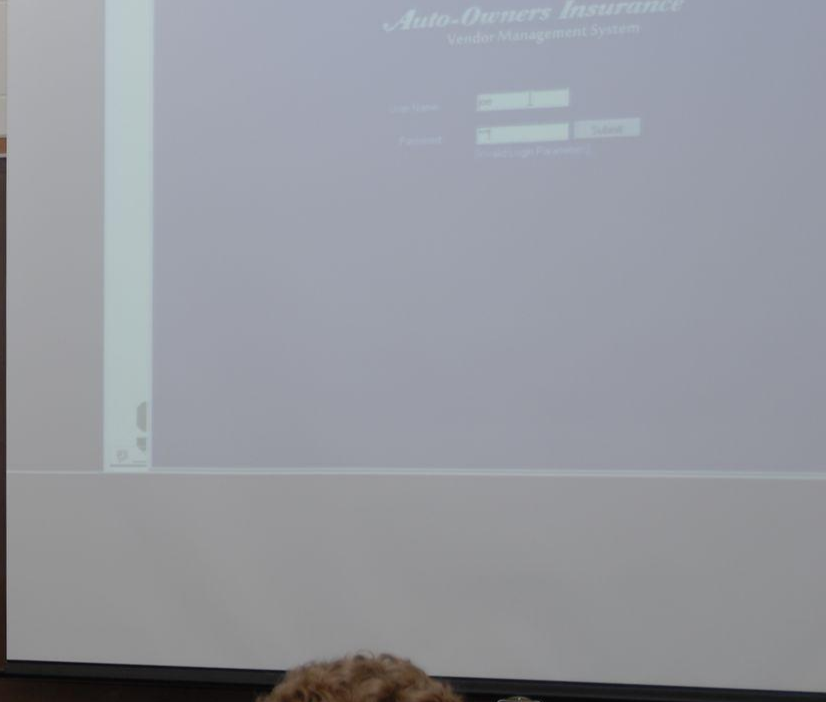
Architecture Illustrated 1/3

Team 1 : Auto-Owners Team



Team 1 Auto-Owners Insurance
Technical Specifications Presentation





Team 1 Auto-Owners Insurance
Alpha Demo Presentation

Current Progress

Current Features:

- Management of all relative entities
 - Contracts
 - Vendors
 - Users
- Notification of Critical Data
- Security
- Database Integration
- Easily Extendable
- Data-Access Layer(DAL)



SR
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10/6/2007

Team 1 Auto-Owners Insurance
Alpha Demo Presentation



Team 2 Ford Status Report

S Project Overview

- Current/Past Automotive Safety Systems
- Statement of Problem
 - Partial Integration
 - Restricted Focus
- Proposed Solution
 - Project Assumptions / Scope
 - System Overview

Team 2: Ford

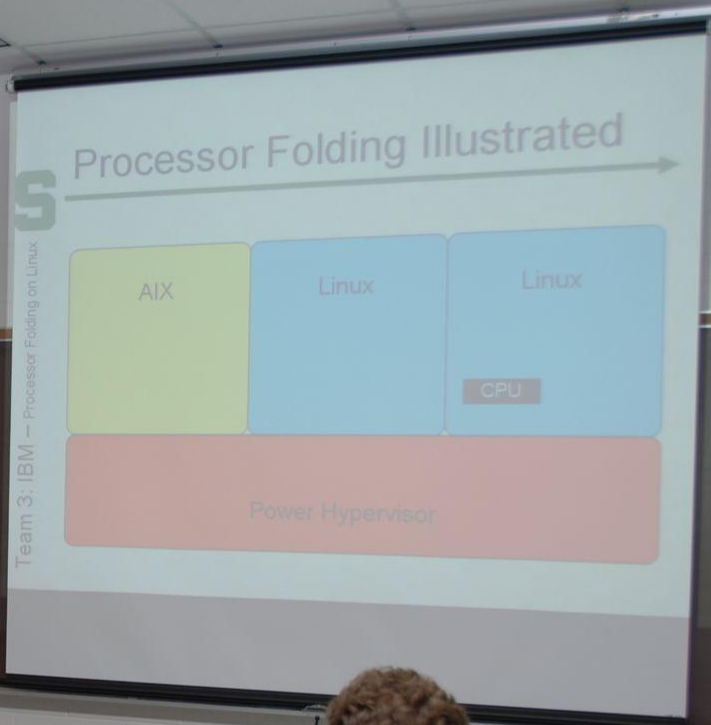
Team 2 Ford
Technical Specification Presentation



Team 3 IBM Status Report

Team 3: IBM

- We
- For
- as
- We
- con
- risk
- Team C
- Josh
- Mar
- Ian i
- cont



Team 3 IBM
Technical Specifications Presentation



Team 3: IBM - Processor Folding on Linux

- A command line interface is needed related to the CPU levels. This program will verify visually if the folding is occurring and provide statistics.
- Command line program to turn processor folding on and off is required as well as a boot menu option.
- Command line program is required to set a threshold at which processor folding will occur. In other words, when the processor utilization reaches a certain threshold, the kernel will begin the processor folding.

Team 3 IBM

Technical Specification Presentation

MICHIGAN STATE
UNIVERSITY

S Team 4 Status Report (1 of 5)

- Client Contact
 - Weekly conference calls have been scheduled
 - Access to Motorola wiki granted
- Team Meetings
 - Bi-weekly meetings set up
 - Triages also set up
- Team Organization
 - Strengths and technical skills have been evaluated, but no set team positions have been assigned yet

Team 4: Motorola


Team 4 Motorola
Status Report

Team 4: Motorola

Team 4 Motorola Technical Specifications Presentation



S Project Schedule



- 1. Run agent
 - a) Compile Agent Framework code to execute Agent
 - b) Date: 9-18
- 2. Sensor
 - a) Add and remove a Sensor from an Agent
 - b) Date: 9-18
- 3. GUI Prototype
 - a) Design GUI Prototype
 - b) Date: 10-08
- 4. Implement MVC
 - a) Implement Model View Controller Design Pattern
 - b) Date: 10-08

Team 4: Motorola



Team 4 Motorola
Technical Specifications Presentation



Team 4: Motorola

- a) Design GUI Pr
- b) Date: 10-08
- 4. Implement MVC
- a) Implement Mod
- b) Date: 10-08

STATE
CITY

Team 4 Motorola Technical Specifications Presentation

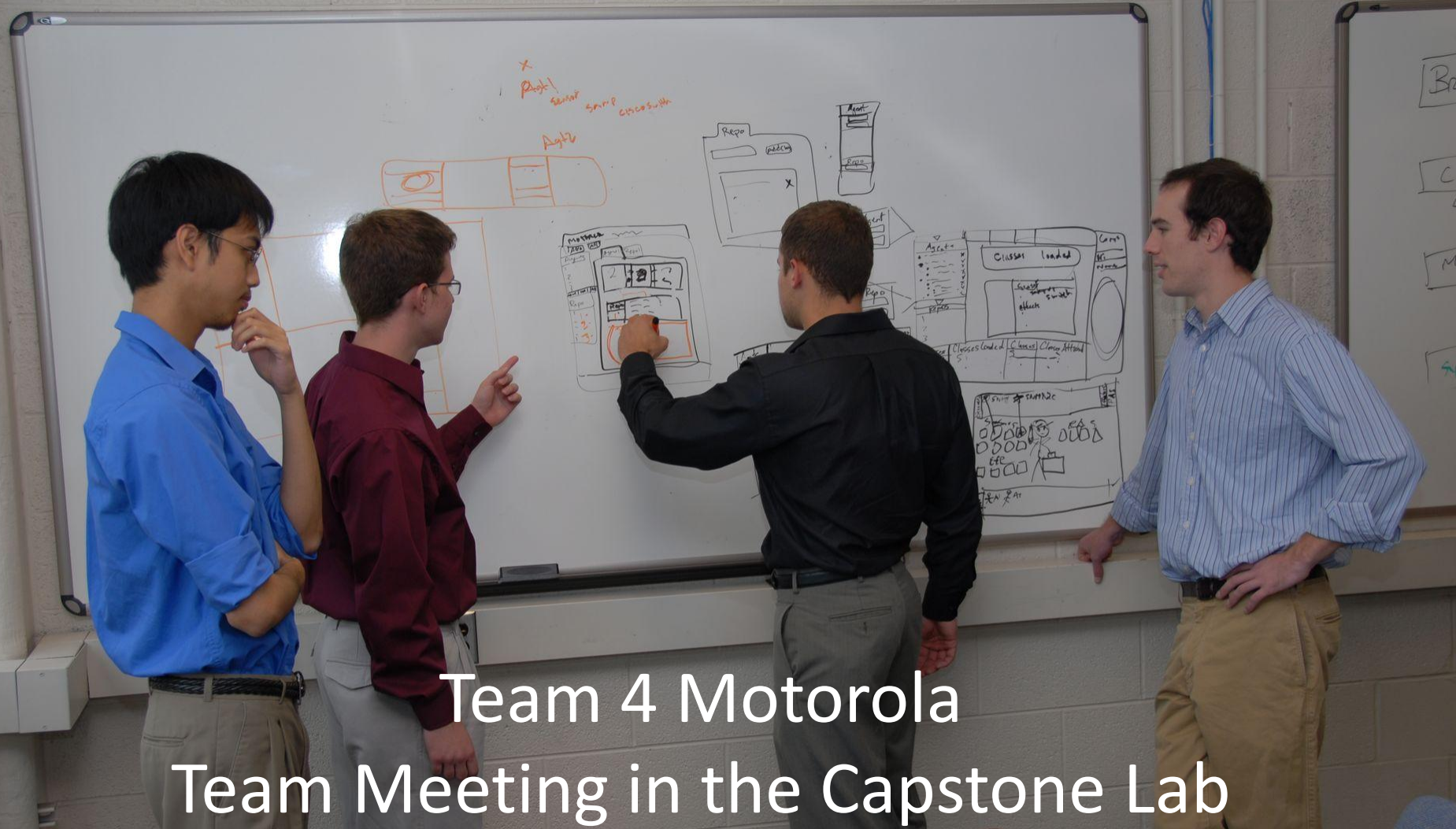
S Team 4 Demonstration (3 of 7)



Team 4 Motorola
Alpha Demo Presentation



Team 4 Motorola
Conference Call with Kabe



Team 4 Motorola
Team Meeting in the Capstone Lab



Team 5 Sircon Status Report

Team 5: Sircon

- Team Me
 - We've m
 - Weekly c
- Team Org
 - At this po
 - Reading
 - Unders
 - Team is

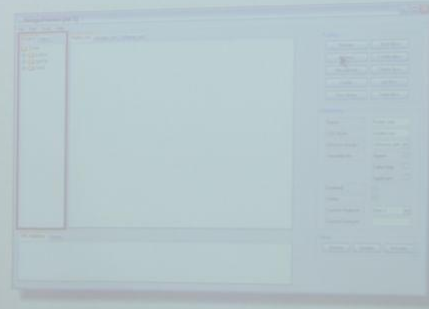
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Team 5 Sircon Technical Specification Presentation

5 Functional Specifications

- File browser will allow the user to navigate through system directory, as well as project directory

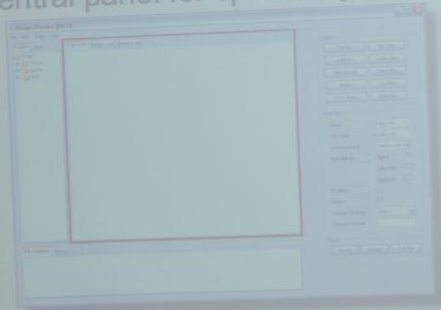


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Technical Specification Presentation

S Functional Specifications

- Provide drag-and-drop functionality to re-organize form elements.
- Central panel for spatial layout of elements



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Give Jesus A Chance
102 Conrad 7:00pm
4/16/07 Free Pizza

CLASSROOM HELP
CALL
432-7779

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The Solution

- Interview Configuration Interface (ICI)
 - Cut delivery in half (est. 2 weeks)
 - Cost-effective
 - Developed pseudo in-house
 - XML expertise not necessary
 - Efficient, graphical design
 - Simple, easy to use interface

Team 5 Sircon
Alpha Demo Presentation

Structure of an Interview

- Workflows (GroupRules.xml)
 - Divided into stages, each stage is a page
 - Each stage contains groups
- Groups (FieldGroups.xml)
 - Contains relevant information
 - Collections of fields
- Fields (PacketFields.xml)
 - Contain rules and descriptions for each element (button, textfield, radio, checkbox, etc.)



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Alpha Demo Presentation



Team 5 Sircon
Working in the Capstone Lab



Team 6: TechSmith

- Microsoft
- Microsoft
- TechSmith
- Microsoft
- Web Site
 - <http://cse4>

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SPARTANS
BASKETBALL

Team 6 TechSmith Status Report



Team 6: TechSmith

- Shows thumbn
- Web Services
 - Upload video
 - Get Tags
 - Get Meta Data
 - Add Tags
- Hosts WMV
- Hosts Silverligh



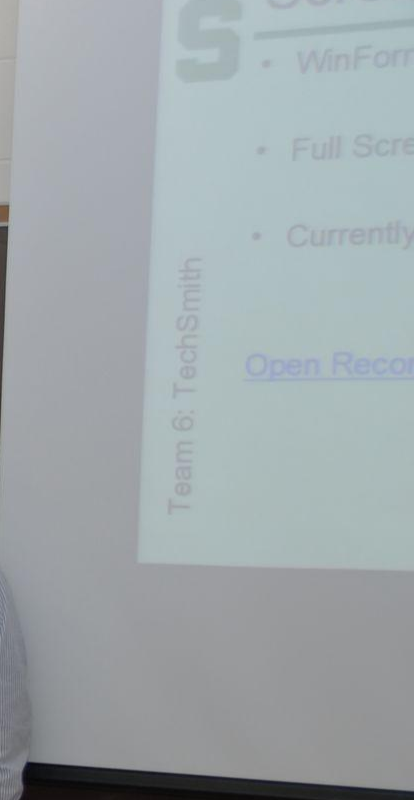
Team 6 TechSmith Technical Specification Presentation

S Functional Specifications

- Website
 - Allows users to find videos
 - Shows thumbnails of videos
- Web Services
 - Upload video
 - Get Tags
 - Get Meta Data
 - Add Tags
- Hosts WMV
- Hosts Silverlight Player

Team 6: TechSmith

Team 6 TechSmith
Technical Specification Presentation



Team 6: TechSmith

Team 6 TechSmith
Alpha Demo Presentation



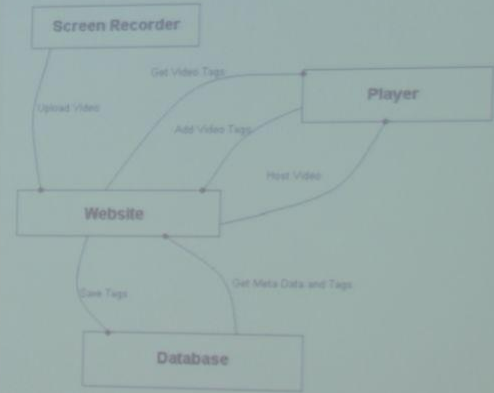


S Website

- Login
- Video Upload
- Video Search
- Player Embedded

Team 6: TechSmith

[Open Website](#)



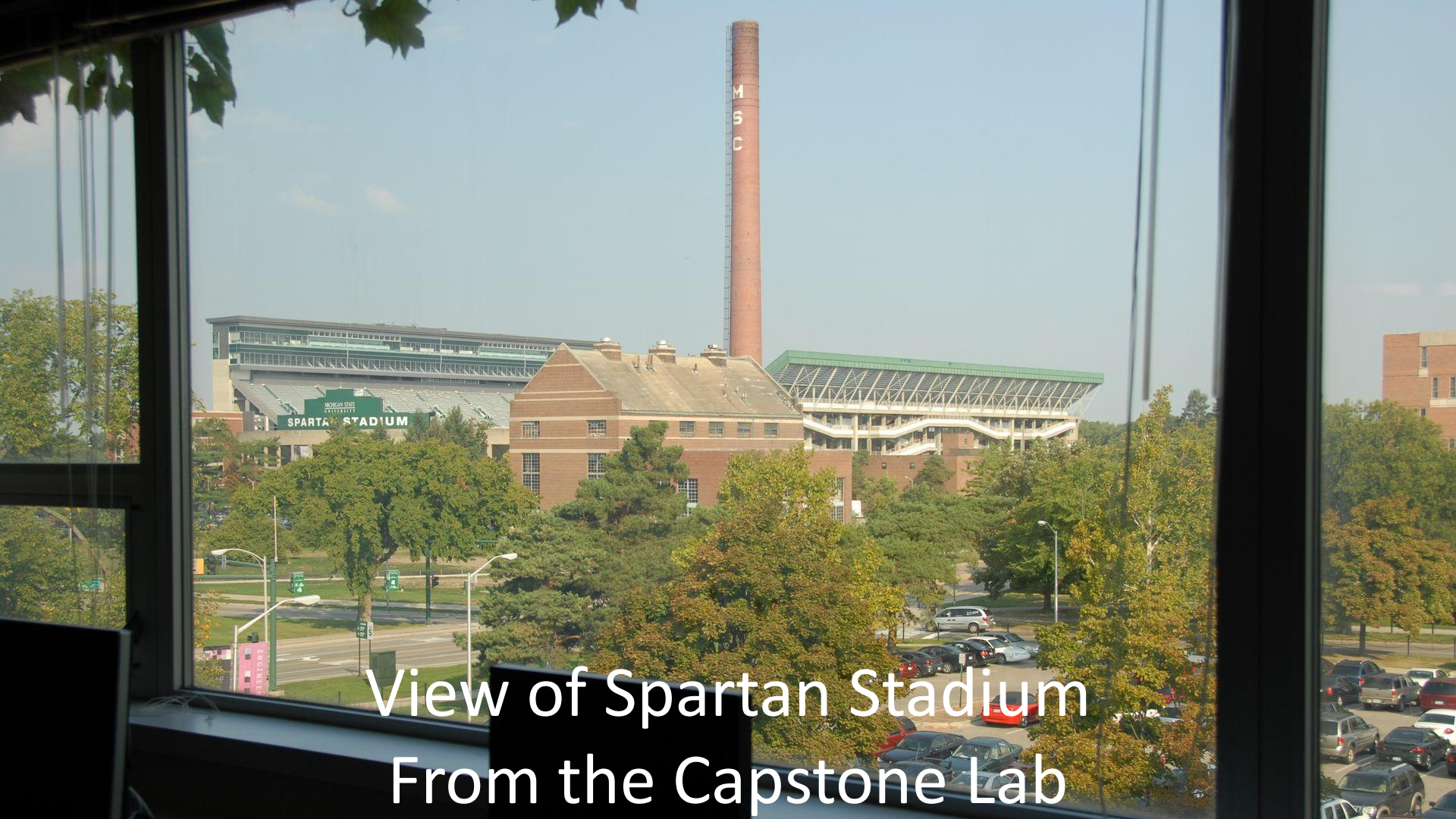
Team 6 TechSmith
Alpha Demo Presentation

A photograph of three men in business attire standing around a laptop. The man in the center is looking at the screen, while the man on the left has his arms crossed and the man on the right is partially visible. The background is a plain, light-colored wall.

Team 6 TechSmith
Alpha Demo Presentation



Team 6 TechSmith
Working in the Capstone Lab



View of Spartan Stadium
From the Capstone Lab