Project Plan
Manufacturing Dashboard
(Warren Plant)

Team Chrysler
CSE 498, Collaborative Design

Jun Lee
Jacob Jang
Ben Pederson
Alex Walworth

Department of Computer Science and Engineering
Michigan State University
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Project Overview

- Redesign existing manufacturing dashboard
- Display performance data in a cleaner and more maintainable way
- Allow for easy updatability for all users
- Create news feed that also can be easily updated
Functional Specifications

- Display Warren Manufacturing Dashboard with SharePoint technology
- All features will be organized using tabs and sub-tabs for easier navigation.
- Dashboard will initially consist of three tabs
  - News View
  - Downtime Reports
  - Summary/Manager’s View
Design Specifications

• Warren Dashboard will populate its data from a database containing performance data

• News View
  – Display Overall News of Plant, as well as more sub-categorical news sections

• Downtime Reports
  – Displays Downtime Broken Down In a Variety of Ways

• Summary/Manager’s View
  – Display Graphical Summary of Reports
Screen Mockups

Summary/Manager’s View Mockup (above)

Warren Stamping Plant News View (below)
Technical Specifications

- All Tabs’ Reports Are Populated Dynamically From The Database
- Reports Are Interactive – Users Can “Drill Down” To Get More Detailed Reports
- Hierarchical Permissions Allow Users At The Plant Level To Manage Their News
- News Is Managed Separately From Reports
Architecture Illustrated

Warren Dashboard

- Administrator
- Super User
- User
- Database

Add News \(\text{extends}\) Edit News

View News \(\text{includes}\) View Sub News

View Manager's View

View Downtime Report
System Components

- **Hardware Platforms**
  - Windows PC
  - Windows Server

- **Software Platforms / Technologies**
  - Web Server: Internet Information Services (IIS)
  - Database: Sybase (ASE 15.5)
  - IDE: Visual Studio 2008
  - Source Control: Visual SVN Server 2.1
  - Server Tools: Office SharePoint Server 2007
Testing

• Selenium IDE
  – Good for web testing
  – Implementation in future
• Two weeks allotted for final testing
• Manual testing throughout development
Risks

- **SharePoint**
  - How to use SharePoint
  - Someone is taking the primary responsibility

- **Getting Access to the System We’re Redesigning**
  - Restricted access to outside users
  - Arranging limited login access

- **Integration with Client Data**
  - Mirroring client’s data setup for our use
  - Client supplying DB structure, Team member will manage

- **User Interface**
  - Redesigning infrastructure while maintaining functionality
  - Close communication with the client