Project Plan
ITS Dashboard

Team 4. Meijer
CSE 498, Collaborative Design

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Project Overview

• The Problem:
  – Meijer would like a way to visualize their IT Services employee statistics
  – Current System cluttered and difficult to work with

• The Solution:
  – We design a SharePoint based dashboard which trends and gauges data based on department standards.
Functional Specifications

• Trending
  – Line graphs to show performance over multiple periods of time

• Drill Down
  – Navigate through hierarchy to view statistics at each level

• Stop Lighting
  – Used as a Key Performance Indicator (KPI) to represent progress towards specified goals

• Excel Loader
  – Load data into SQL server database
Design Specifications

- **Informative Display**
  - Managers can see how they are performing compared to others

- **Simple Navigation**
  - Should be easy to navigate through
  - Not cluttered, get to the point

- **Use Cases:**
  - Director viewing performance of their managers
  - Managers viewing their own performance
Screen Mockups
Screen Mockups
Technical Specifications

- Normalization of Data from BMC Remedy
- Database schema
- ASP .NET Customization
  - Chart control
  - LINQ
- Integrate SQL Server 2008 Reporting Services viewer with SharePoint
Architecture Illustrated

- User Interface: Internet Explorer Web Browser
- Application Tier: Microsoft Office SharePoint Server 2007, .NET Framework 3.5, Internet Information Services 7.0
- Database Tier: SQL Server 2008 (Content, Reporting Services)
- Server Tier: Windows Server 2008, Excel Loader (C#)
System Components

• Hardware Platforms
  – Internet Explorer 7.0 or higher

• Software Platforms / Technologies
  – Windows Server 2008
  – Visual Studio 2008 (C#, ASP.NET)
  – Microsoft Office SharePoint Server 2007 Enterprise
  – Microsoft SQL 2008
  – Microsoft SQL Reporting Services
Testing

- Unit Testing
  - Test individual functions within the Excel Loader
- Mock Subjects
  - Test the dashboard’s visual layout using mock subjects