Project Plan
CIO Dashboard

Team Meijer
CSE 498, Collaborative Design

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Project Overview

• The Goal
  – Meijer’s CIO wants a Dashboard created to facilitate the evaluation of the ITS department’s performance using a variety performance benchmarks and previous years productivity

• Our Solution
  – Create SharePoint Web Parts which display the requested information in a easy to interpret format
  – These Web Parts will be easily integrated into the current Meijer SharePoint system and allow individual customization
Functional Specifications

- **Loading from Excel**
  - Data supplied from Excel needs to be imported in SQL database

- **Graphing**
  - Provide graphics dynamically created from data

- **Drill Down**
  - Allow for tiered navigation of the data through the individual web parts

- **SharePoint Compatibility**
  - Seamless integration into Meijer’s current SharePoint environment
Design Specifications

• Individual Web Parts
  – Web parts that can function regardless of where they are being implemented
  – In addition to the CIO using the web parts which we create, other ITS managers will include the web parts which are most relevant to their needs

• Graphics
  – Appropriate use of graphics based on the type of information being displayed and ease of readability – to allow a quick glance into the information instantly highlighting what is most important
Screen Mockups
Screen Mockups
Technical Specifications

- Using a Microsoft SQL Server 2008 database backend with SharePoint 2007 compatible web parts
- Use coding standards and database naming conventions in compliance with Meijer’s current specifications
- Framework to allow Meijer to import data from Excel into SQL Server database and from one database to another
Architecture Illustrated

Diagram:

- User Interface: Web Browser
- Application Tier:
  - Microsoft Office SharePoint Server 2007
  - .NET Framework 3.5
  - Internet Information Services 6.0
- Database Tier: SQL Server 2008
- Server Tier:
  - Excel Spreadsheet Loader
  - Windows Server 2003
System Components

- Hardware Platforms
  - Human Interaction Devices
- Software Platforms / Technologies
  - Windows Server 2003
  - Microsoft SQL Server 2008
  - Microsoft SharePoint Server 2007
  - Visual Studio 2008 (Using ASP.NET in C#)
Testing

- Selenium
  - Use selenium add-on to create consistent tests of each individual web part

- Excel Loader
  - Test individual functions of the excel loader to ensure accuracy
Risks

• **SharePoint**
  – Our team has no experience developing in SharePoint
  – We are following tutorials on creating web parts via SP

• **Building upon previous semester’s project**
  – Doesn’t work correctly, documentation incomplete
  – We’ve got it to compile correctly, however cannot integrate with SharePoint

• **Integrating our solution into their environment**
  – Previous semester’s project did not integrate well with Meijer’s environment
  – Constant communication with our client contact as well as their resident experts. (SharePoint, MSSQL)
  – Regularly send Meijer developers solutions to test in their environment