

MICHIGAN STATE
UNIVERSITY

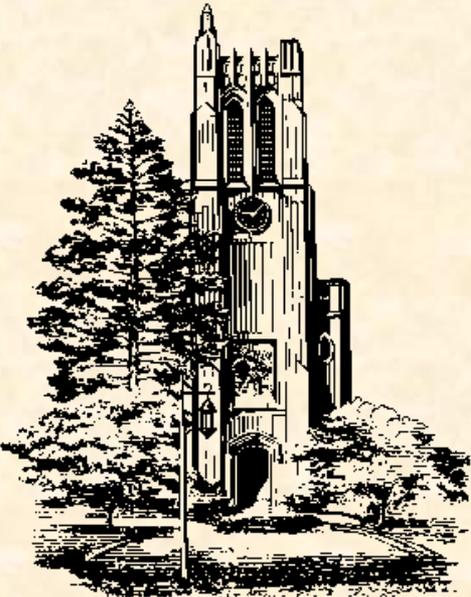
Project Plan CIO Dashboard

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CSE 498, Collaborative Design

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Spring 2010





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



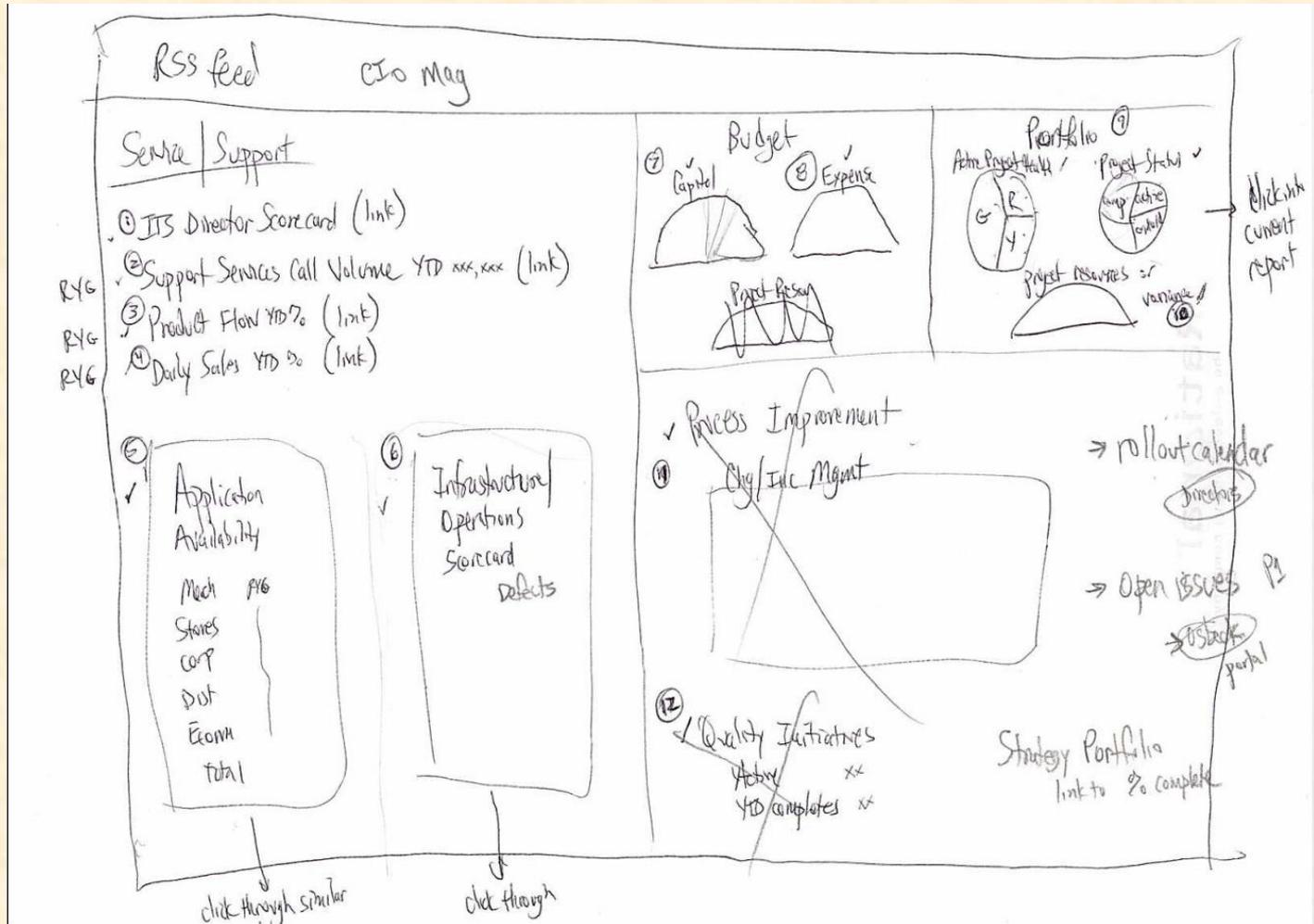
- Loading from Excel
 - Data supplied from Excel needs to be imported in SQL database
- Graphing
 - Provide graphics dynamically created from data
- Drill Down
 - Allow for tiered navigation of the data through the individual web parts
- SharePoint Compatibility
 - Seamless integration into Meijer's 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



Meijer ITS Dashboard

Meijer ITS Dashboard Report Center

Version: Draft (0.14) Status: Checked in and viewable by authorized users.

Page | Workflow | Tools | Edit Page

Meijer ITS Dashboard > Reports Library > ITS Scorecard Dashboard

CIO Dashboard

View All Site Content

Lists

- KPI List

Documents

- Reports
- DataConnection
- shared documents

Reports

Dashboards

- ITS Scorecard Dashboard
- Sample
- test3
- another dashboard sample

Resources

- Data Connections
- Report Calendar
- Reference Library

Dashboard

Report Center

- Recycle Bin

Service|Support

ITS Director Scorecard (link)

Support Services Call Volume YTD (link)

Product Flow YTD % (link)

Daily Sales YTD % (link)

Budget

Expense

Capital

\$0 \$100 \$0 \$100

Project Portfolio

Active Projects

Project Status

Project Resources

Application Availability

Department:	Avail (%):
Stores	100.0
Corp	98.0
Dist	99.9
.	97.0
.	99.5
.	.
.	.
.	.

Infrastructure Scorecard

Defects:	%:
Operations	100.0
Corp	98.0
Dist	99.9
.	97.0
.	99.5
.	.
.	.
.	.

Rollout Calendar

Open Issues



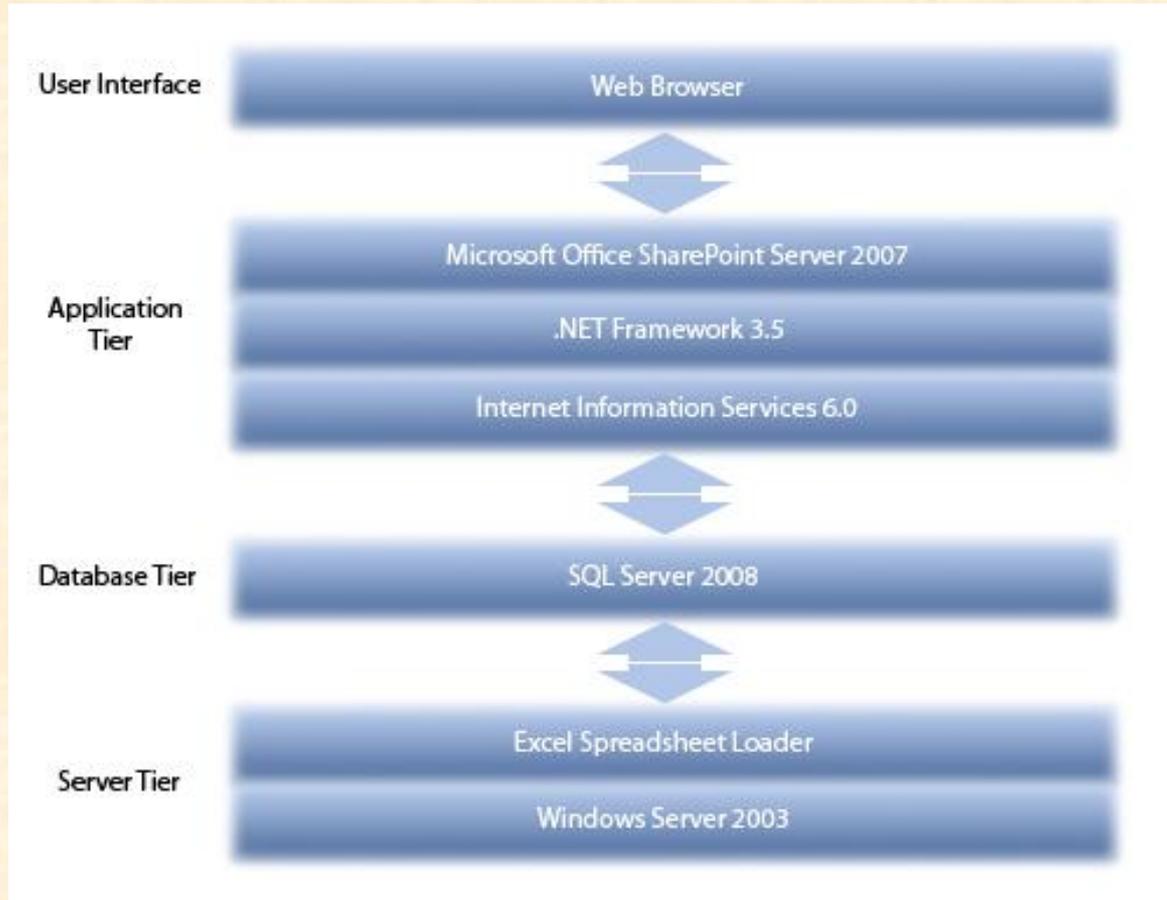
Technical Specifications



- 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





System Components

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- 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