Web Portal Technical Design

ACS BSG Web Portal

Jeff Keenan



# Owners and List of Contacts

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# Signoffs

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|  |  |  |  |

# Revision History

|  |  |  |
| --- | --- | --- |
| Date | Reason for change(s) | Author(s) |
| **3/29/2011** | Initial Draft | Jeff Keenan |

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# Summary

The BSG Web Portal is a standardized framework that provides the ability to log users in through a web form and present a customized menu of links to web reports and applications.

# Business Needs and Success Criteria

The BSG Web Portal fulfills most base requirements for a web based application that will be exposed to internal and external users. The application provides standard user authentication and authorization features and a simple way to customize the display of links to web based applications which are used to fulfill the business specific reporting requirments. The Portal allows for the use of MS SQL Server Reporting Service Reports, Click Once applications and ASP.NET applications.

# Abstract



# Overview

The Web Portal will use ASP.NET Forms Authentication to authenticate users against and Enterprise CORE Server. Once authenticated, users will be presented with a menu based on the configuration in the SiteMenu.xml files. The menu will be dynamically generated based on the user’s authorized CORE feature codes. Links provided in the SiteMenu.xml may utilize the ReportViewer.aspx, Launcher.aspx, and WebViewer.aspx for targeting specific types of content within the web portal.

# Detail Design

## Platform

The Web Portal is built using .Net 4 and compiled using Visual Studio 2010. The Portal can be deployed to IIS 6 or IIS 7 based servers using either 32 bit or 64 bit servers.

## MasterPage.master

The Master Page used by the application sets the global layout for the site. The Master Page will use CSS based layouts to create a Header, Menu Bar, and Main Content Area on all pages of the site.

## Login.aspx

ASP.NET Forms Authentication will be configured to redirect un-authenticated users to the Login.aspx page. The page will provide a web form prompting the user for a username and password. Once submitted, the application will authenticate the credentials using an Enterprise CORE server provided in the web.config file.

## SiteMenu.ascx

The SiteMenu control will render the main menu of the site based on the SiteMenu.xml file contents. The control can have an unlimited number of menu levels. Menu items may be hidden based on user authorization for the CORE Feature IDs required by each menu item.

## SiteMenu.xml

The SiteMenu.xml file provides the configuration for SiteMenu.ascx. An example SiteMenu is below:

<?xml version="1.0" encoding="utf-8" ?>

<SiteMenu>

<MenuItem Text="Home" URL="default.aspx"/>

<MenuItem Text="SIR" CoreFeatureID="838860820">

<MenuItem Text="Enrollment Search" URL="~/SIRSearch.aspx?SearchPlan=EnrollmentSearch" CoreFeatureID="838860820"/>

<MenuItem Text="WeQ" URL="/BSC\_Applications/WEQ/QueueMenu.aspx" CoreFeatureID="838860821"/>

</MenuItem>

</SiteMenu>

## ReportViewer.aspx

The ReportViewer.aspx page may be targeted by items in the SiteMenu.xml file. This page is used to display content from a SSRS Server. The parameters to the page should specify a ReportTitle to be displayed. The Web.config file for the site will provide the URL, username, password, and domain used to access the SSRS instance. ReportViewer.aspx contains an instance of the Report Viewer Control and downloads the report content through the SSRS Web Service interface.

## Launcher.aspx

Launcher.aspx may be targeted by menu items that need to launch a Click Once application. Launcher.aspx accepts a parameter URL that points to the target manifest of the ClickOnce deployment.

## WebViewer.aspx

WebViewer.aspx may be targeted by site menu items that target other web based content. WebViewer.aspx contains an IFRAME element where the page passed in the URL parameter is loaded.

## ChangePassword.aspx

ChangePassword.aspx provides a web form allowing users to update their password in the Enterprise CORE system.

## Web.config

The following keys are used in the Web.config file:

* CoreServer – Host Name or IP of the Enterprise CORE server
* CoreSystem – MCP3 or SIR
* CoreProject – Name of MCP3 or SIR Project
* MenuFile – Name of Menu File used for the Site Menu
* LogoImageURL – URL to image used as logo on the site
* SiteTitle – Value used as title of site
* ReportingServicesUser – Name of domain user with access to SSRS content
* ReportingServicesPassword – Encrypted password of user
* ReportingServicesUserDomain – User domain
* ReportingServicesUrl – URL to SSRS Web Service
* AdminAccountName – Name of Core Account with access to Create new users
* AdminAccountPassword – Password to account
* InternalUserRole – Name of CORE Role to which all internal users are assigned
* LauncherQueryString – Querystring appended to all items loaded through the Launcher.aspx page