# Design Document for User Story 5348

## As a user I want to use my MDWS credentials to access the TBI-CDS application from a web browser outside of CPRS.

## ASP .NET Pages

### TBICDS.aspx.cs

Code Type: C# Codebehind Class for ASP .NET Page

Uses Classes: N/A

Uses PL/SQL Procedures: N/A

Uses MDWS Calls: N/A

Lines of Code: 26

* protected void Page\_Load(object sender, EventArgs e)
  + page load of TBI CDS main page

## ASP .NET User Controls

### ucAppLogin.ascx.cs

Code Type: C# Codebehind Class for ASP .NET User Control

Uses Classes: CRegionSite, CDropDownList, CMDWSOps, CSec

Uses PL/SQL Procedures: N/A

Uses MDWS Calls: N/A

Lines of Code: 82

* protected void Page\_Load(object sender, EventArgs e)
  + page load
* public void LoadControl()
  + load the region, site data etc...
* protected void OnRegionIndexChanged(object sender, EventArgs e)
  + load the site dropdown when the region is changed
* protected void btnLogin\_Click(object sender, EventArgs e)
  + user clicked the login button, gather credentials and login

## ASP .NET Classes

### CRegionSite.cs

Code Type: C# Class

Uses Classes: CMDWSOps, CDataParameterList, CDataSet

Uses PL/SQL Procedures: PCK\_REGION\_SITE.GetRegionRS, PCK\_REGION\_SITE.GetSiteRS

Uses MDWS Calls: N/A

Lines of Code: 53

* public CRegionSite(BaseMaster BaseMstr)
  + constructor takes basemaster
* public DataSet GetRegionsDS()
  + Gets a dataset of all regions, will transfer regions form MDWS etc as needed
* public DataSet GetSiteDS(long lRegionID)
  + gets a dataset of all sites for one region

### CUser.cs

Code Type: C# Class

Uses Classes: CDataParameterList, CDataSet

Uses PL/SQL Procedures: PCK\_USER.GetLoginUserRS

Uses MDWS Calls: N/A

Lines of Code: 65

* public DataSet GetLoginUserDS(

BaseMaster BaseMstr,

long lFXUserID)

* + get a user dataset
* public bool GetLoginUserDetails(BaseMaster BaseMstr,

long lFXUserID,

out long lUserType,

out long lUserRights,

out long lUserReadOnly,

out string strDMISID,

out string strProviderID,

out long lPWDExpiresIn)

* + get details from the user login, these will be cached in the masterpage...

### CMDWSOps.cs

Code Type: C# Class

Uses Classes: CStatus, CMDWSTransfer, EmrSvcSoapClient, CAppUser

Uses PL/SQL Procedures: N/A

Uses MDWS Calls: select, match, getUserSecurityKeys, getVHA, getNoteTitles, getTeams, getSpecialties, getWards, getClinics, getPatientsByTeam, getPatientsBySpecialty, getPatientsByWard, getPatientsByClinic, cprsUserLookup, getPatientsByProvider, connect, login, isValidEsig, writeNote, signNote, closeNote, getNotesWithText, getLabTests

Lines of Code: 492

* public CStatus GetMDWSSecurityKeys(

long lUserID,

bool bTransfer)

* + gets MDWS security keys and transfers them to the database
* public CStatus MDWSLogin(string strUID,

string strPWD,

long lRegionID,

long lSiteID,

string strContext,

out string strDUZ,

out long lFXUserID,

out EmrSvcSoapClient mdwsSOAPClient)

* + login to MDWS and transfer user to the db

### CMDWSTransfer.cs

Code Type: C# Class

Uses Classes: CPatientDataItemXfer, CPatientDataXfer, CStatus, EmrSvcSoapClient, CDataParameterList, CDataSet, CSiteDataXfer, CPatientItemDataItem, CPatientItemComponentDataItem, CItemComponentData, CPatientItemCompList, CPatientChecklistLogic, CLabDataXfer, CTeamDataXfer, CNoteTitleDataXfer, CSpecialtyDataXfer, CWardDataXfer, CSecurityKeyDataXfer, CClinicDataXfer, CUserDataXfer

Uses PL/SQL Procedures: PCK\_MDWS.GetMDWSPatientRS

Uses MDWS Calls: select, getUnsignedNotes, getNotesWithText, getChemHemReports, getLabTestDescription

Lines of Code: 822

* public CStatus TransferSites(RegionArray ra)
  + transfer regions and sites from MDWS to our tables
* public CStatus TransferSecurityKeys( long lUserID,

UserSecurityKeyArray usk,

out long lCount)

* + transfer user security keys
* public CStatus TransferUserArray( UserArray ua,

long lRegionID,

long lSiteID,

out long lCount)

* + transfer a MDWS user array to our db
* public CStatus TransferUser(UserTO toUser, long lRegionID, long lSiteID, out long lFXUserID)
  + transfer MDWS user data to the database

### CSiteDataXfer.cs

Code Type: C# Class

Uses Classes: CStatus, CDataParameterList

Uses PL/SQL Procedures: PCK\_XFER.XferRegion, PCK\_XFER.XferSite

Uses MDWS Calls: N/A

Lines of Code: 36

* public CSiteDataXfer(CData data)

: base(data)

* + construstor
* public CStatus SaveRegion( long lXferSystemID,

long lRegionID,

string strRegionName)

* + save a region to the central db
* public CStatus SaveSite( long lXferSystemID,

long lRegionID,

long lSiteID,

string strSiteName)

* + Save a site to the central db

### CUserDataXfer.cs

Code Type: C# Class

Uses Classes: CDataParameterList

Uses PL/SQL Procedures: PCK\_XFER.XferUser

Uses MDWS Calls: N/A

Lines of Code: 38

* public CUserDataXfer(CData data)

: base(data)

* + constructor
* public CStatus SaveUser(long lXferSystemID,

string strDUZ,

string strLastName,

string strFirstName,

string strFirstLastName,

string strGreeting,

long lRegionID,

long lSiteID,

string strUserClass,

out long lFXUserID)

* + transfer a user to the central db

## Oracle PL/SQL

### pck\_region\_site.bdy

Uses Tables: UTL\_REGION, UTL\_SITE

Lines of Code: 52

* procedure GetRegionRS (

pi\_vSessionID in varchar2,

pi\_vSessionClientIP in varchar2,

pi\_nUserID in number,

po\_nStatusCode out number,

po\_vStatusComment out varchar2,

rs out refCursor

)

* + Description: Gets regions
* procedure GetSiteRS (

pi\_vSessionID in varchar2,

pi\_vSessionClientIP in varchar2,

pi\_nUserID in number,

pi\_nRegionID in number,

po\_nStatusCode out number,

po\_vStatusComment out varchar2,

rs out refCursor

)

* + Description: Gets region sites

### pck\_user.bdy

Uses Tables: FX\_USER, FX\_USER\_RIGHTS, FX\_USER\_ID, UTL\_DECSTR

Lines of Code: 74

### pck\_xfer.bdy

Uses Tables: UTL\_REGION, UTL\_SITE, FX\_USER, FX\_USER\_ID, UTL\_ENCSTR

Lines of Code: 411

* procedure XferRegion(

pi\_vSessionID in varchar2,

pi\_vSessionClientIP in varchar2,

pi\_nUserID in number,

pi\_nXferSystemID in number,

pi\_nRegionID in number,

pi\_vRegionName in varchar2,

po\_nStatusCode out number,

po\_vStatusComment out varchar2)

* + Transfers a region from an external source such as MDWS to the database
* procedure XferSite(

pi\_vSessionID in varchar2,

pi\_vSessionClientIP in varchar2,

pi\_nUserID in number,

pi\_nXferSystemID in number,

pi\_nRegionID in number,

pi\_nSiteID in number,

pi\_vSiteName in varchar2,

po\_nStatusCode out number,

po\_vStatusComment out varchar2)

* + Transfers a site from an external source such as MDWS to the database
* procedure XferUser(

pi\_vSessionID in varchar2,

pi\_vSessionClientIP in varchar2,

pi\_nUserID in number,

pi\_nXferSystemID in number,

pi\_vDUZ in varchar2,

pi\_vLastName in varchar2,

pi\_vFirstName in varchar2,

pi\_vFirstLastName in varchar2,

pi\_vGreeting in varchar2,

pi\_nRegionID in number,

pi\_nSiteID in number,

pi\_vUserClass in varchar2,

po\_nUserID out number,

po\_nStatusCode out number,

po\_vStatusComment out varchar2)

* + Transfers a user from an external source such as MDWS to the database
* procedure XferPatient ( pi\_vSessionID in varchar2,

pi\_vSessionClientIP in varchar2,

pi\_nUserID in number,

pi\_nXferSystemID in number,

pi\_vKey in varchar2,

pi\_nRegionID in number,

pi\_nSiteID in number,

pi\_vMDWSPatientID in varchar2,

pi\_vSSN in varchar2,

pi\_dtDOB in date,

pi\_vFirstName in varchar2,

pi\_vFullName in varchar2,

pi\_vLastName in varchar2,

pi\_vMI in varchar2,

pi\_nSex in number,

pi\_vHomeAddr1 in varchar2,

pi\_vHomeAddr2 in varchar2,

pi\_vHomeCity in varchar2,

pi\_vHomeState in varchar2,

pi\_vHomeZip in varchar2,

pi\_vHomePhone in varchar2,

po\_vPatientID out varchar2,

po\_nStatusCode out number,

po\_vStatusComment out varchar2

)

* + Transfers a patient from an external source such as MDWS to the database