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Phase 1

Tech Talk

Applications Development Project 1

Table of Contents

Introduction\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2

Full Use Case Diagrams\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3

Updated User Requirements\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3

User Manual \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4

Programmers Manual \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_11

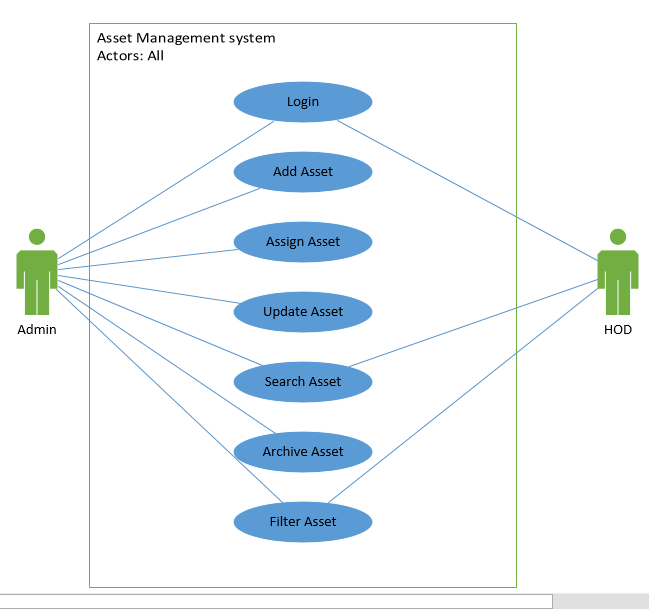
Conclusion\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_21

**Introduction**

Tracking of assets owned by an organisation can be problematic. This problem can be worsened when it comes to larger departments such as the Department of Information Technology at the Durban University of Technology (DUT). Our Group, Tech Talk, who specialise in programming, were approached by DUT which is an institution of higher education, in the hopes that we can develop a Web based Application that will help with the maintenance of all their Office Assets in tracking, allocating and other variety that will be explained in further detail below.

We will be using Web-based Application, Microsoft Internet Information Server (IIS) and Microsoft SQL server to create the application as well as the database that will be linked to the form.

**Full Use Case Diagrams**



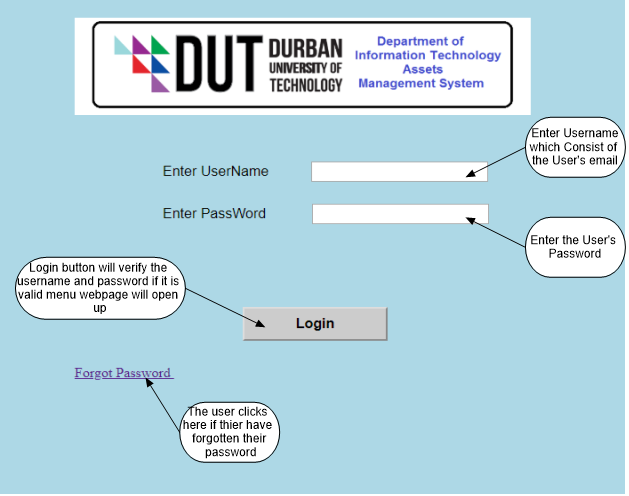
**Updated User Requirements**

* Add assets that arrive to DUT to the assets database.
* Update assets records.
* Allocate assets to staff members.
* Update assets that have been allocated to staff members.
* Search all records of assets or assets that are assigned to staff members.
* Filter all records of assets or assets that are assigned to staff members.

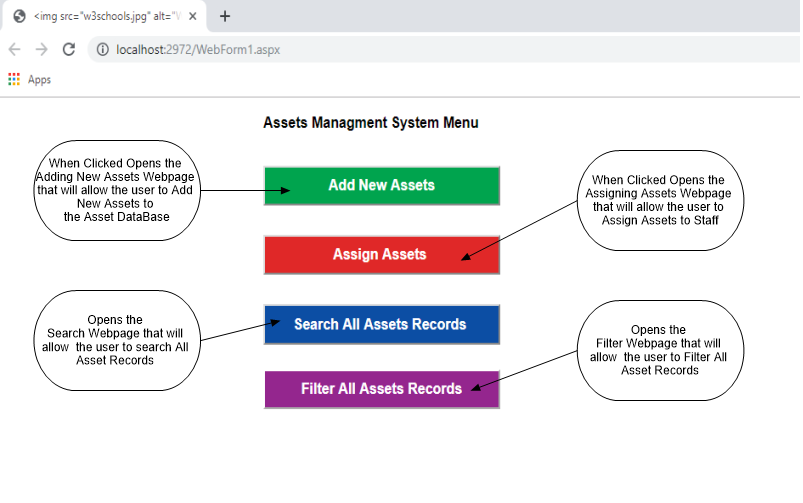
**User Manual**

1. The User uses a browser to gain access to the Login Webpage.

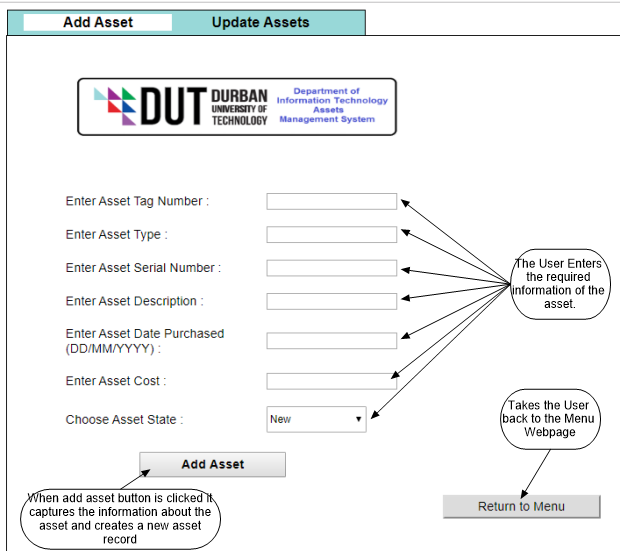
Login Webpage:



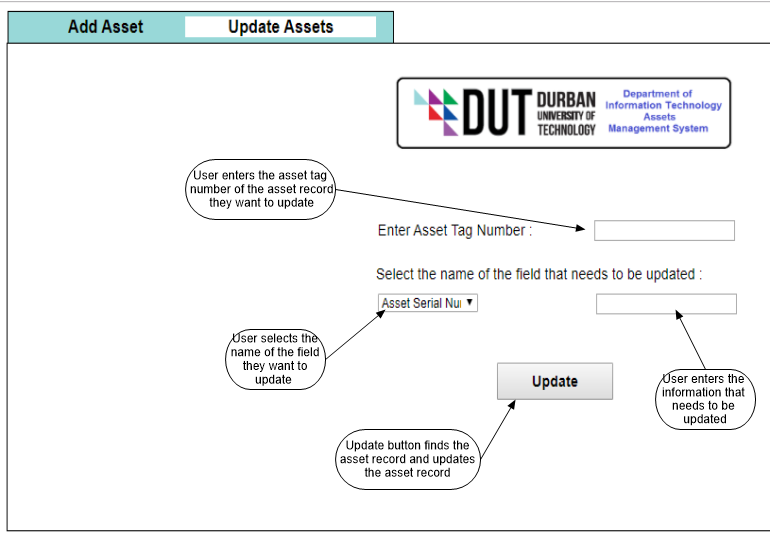
Menu Webpage:



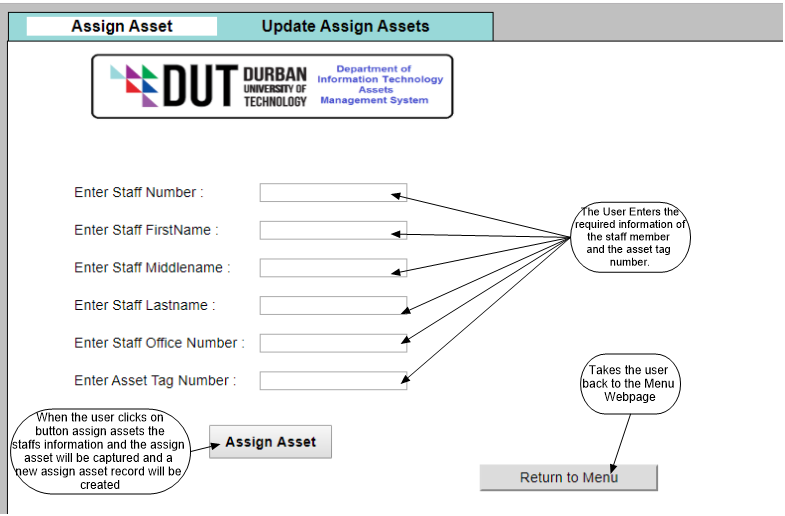
Adding Assets Webpage: Allows the user to add asset records.



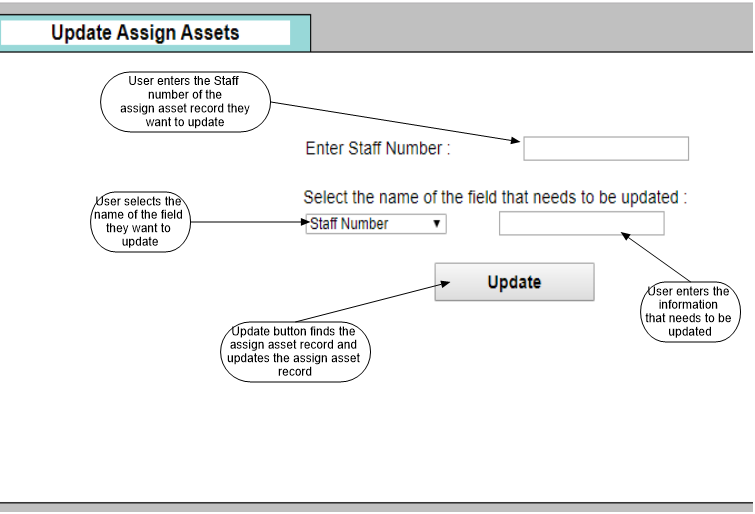
Updating New Assets Webpage: Allows the user to update asset records.



Assigning Assets Webpage: Allows the user to assign asset records.

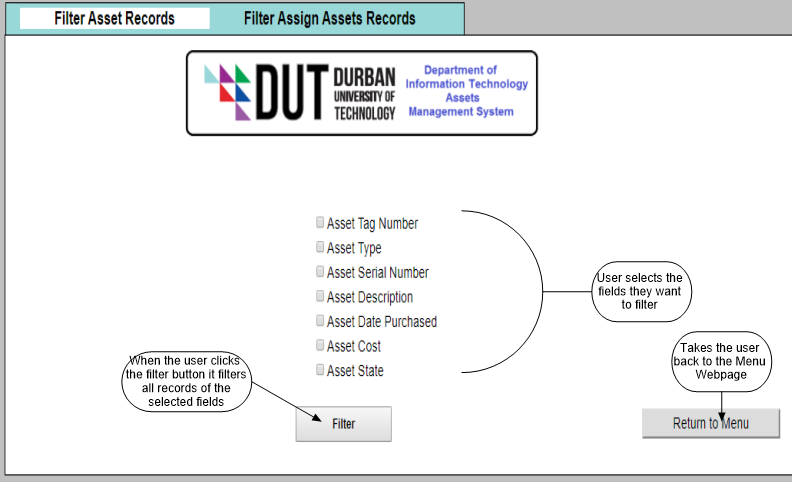


Assigning Assets Webpage: Allows the user to update assign asset records.

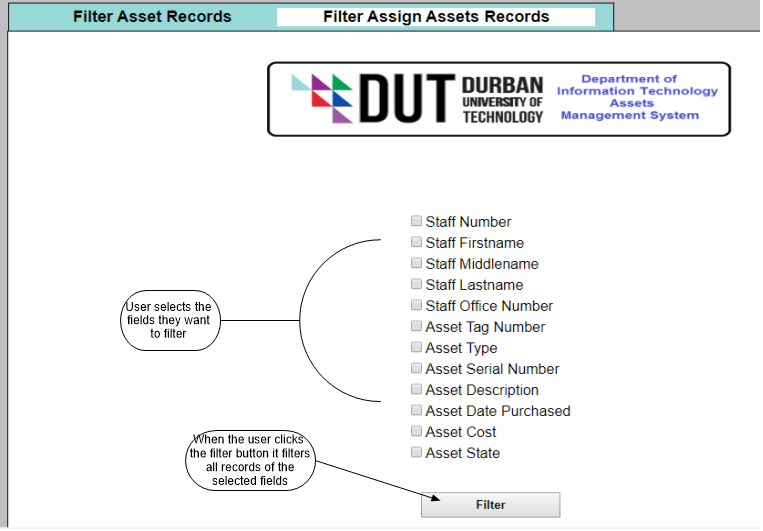


Filtering All Assets Records Webpage.

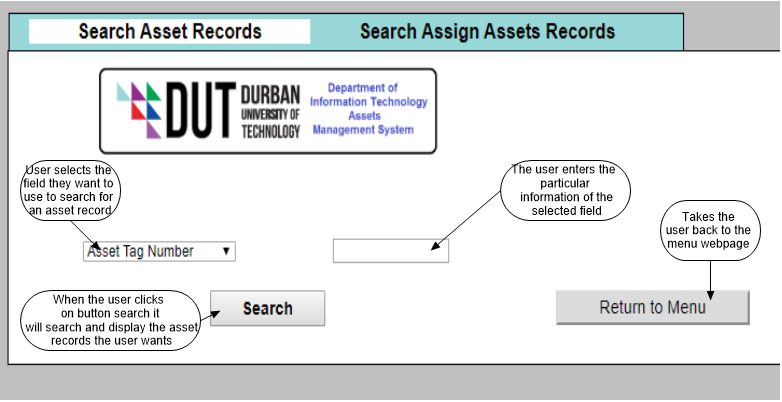
Allows the user to filter asset records according to their preferences.



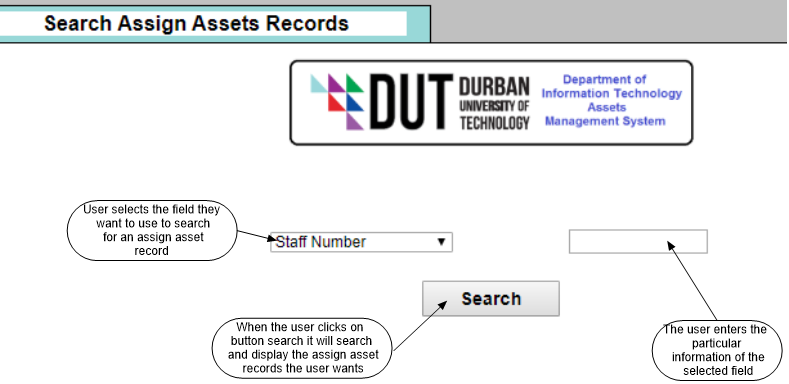
Allows the user to filter assign asset records according to their preferences.



Search All Assets Records Webpage:

Allows the user to search for a single asset record. ****

Allows the user to search for a single assign asset records.



**Programmers Manual**

The Code below is written in C# (CSharp) Programming Language:

The Portion of Code below is for the DITMAS Login Webpage:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace WebApplication2

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Button1\_Click(object sender, EventArgs e)

{

Declared Variables

string Username, Password;

Any Previous Data in the variables are cleared

Username = "";

Password = "";

Data is extracted from the Components and Stored in their respective variables

Username = txtUsername.Text;

Password = txtPassword.Text;

if (( Username=="TechTalk@dut.ac.za") && (Password =="TechTalk12345") )

{ }

Checks if the username and password is valid.

}

The Portion of Code below is for the DITMAS Adding Assets Webpage:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace AddAssets

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Button1\_Click(object sender, EventArgs e)

Declared variables with the data type string

{

string AssetTagNum, AsssetType, AssetSerialNum, AssetDescription;

string AssetDatePurchased, AssetCost, AssetState ;

AssetTagNum="";

AssetType="";

AssetSerialNum="";

All previous data are cleared from the variables

AssetDescription="";

AssetDatePurchased="";

AssetCost="";

AssetState="";

AssetTagNum = txtTagNum.Text;

AssetType = txtAssetType.Text;

AssetSerialNum = txtSerialNum.Text;

Extracts data from the components and stores the data into their respective variable variables

AssetDescription = txtDescription.Text;

AssetDatePurchased = txtDatePurchased.Text;

AssetCost = txtAssetCost.Text;

AssetState = ddlAssetState.SelectedItem.ToString();

}

}

}

The Portion of Code below is for the DITMAS Updating Assets Webpage:

protected void Button2\_Click(object sender, EventArgs e)

Declared variables with the data type string

{

string AssetTagNum, FieldName, Updatedinfo;

AssetTagNum= "";

Any previous data stored in the variables are cleared

FieldName= "";

Updatedinfo = "";

AssetTagNum =txtTagNum1.Text;

Extracts data from Multiple Components and stores in their respective variables

FieldName = ddlField.SelectedItem.ToString();

Updatedinfo = txtUpdatedinfo.Text;

}

The Portion of Code below is for the DITMAS Assigning Assets Webpage:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace AssignAssets

{

public partial class WebForm1 : System.Web.UI.Page

{

Declared Variables of the Data Type String

protected void Button1\_Click(object sender, EventArgs e)

{

string Staffnum, StaffFirstname, StaffMiddlename, StaffLastname;

string StaffOfficenum, AssetTagNum;

Staffnum = txtStaffNum.Text;

StaffFirstname = txtFirstname.Text;

Extracts data from Multiple Components and stores in their respective variables

StaffMiddlename = txtMiddlename.Text;

StaffLastname = txtLastname.Text;

StaffOfficenum =txtOfficeNum.Text;

AssetTagNum = txtAssetTagNum.Text;

}

}

}

The Portion of Code below is for the DITMAS Updating Assigned Assets Webpage:

protected void Button2\_Click(object sender, EventArgs e)

Declared Variables of the Data Type String

{ string StaffNum, FieldName, Updatedinfo;

StaffNum= "";

Any previous data stored in the variables are cleared

FieldName= "";

Updatedinfo = "";

StaffNum =txtStaffNum1.Text;

Extracts data from Multiple Components and stores in their respective variables

FieldName = ddlField.SelectedItem.ToString();

Updatedinfo = txtUpdatedinfo.Text;

}

The Portion of Code below is for the DITMAS Filtering All Assets Records Webpage.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

namespace WebApplication2

{

public partial class WebForm1 : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Menu1\_MenuItemClick(object sender, MenuEventArgs e)

{

int index = Int32.Parse(e.Item.Value);

MultiView1.ActiveViewIndex = index;

}

protected void btnFilter\_Click(object sender, EventArgs e)

{

Declared Variables of the Data Type String

string item1, item2, item3, item4, item5, item6, item7 ,itemtypes;

item1 = "";

item2 = "";

Any previous data stored in the variables are cleared

item3 = "";

item4 = "";

item5 = "";

item6 = "";

Checks if the checkbox AssetTagNum is checked if checkbox AssetTagNum is checked it sets the value "AssetTagNumber" to the variable item1

item7= "";

itemtypes = "";

if (chbxAssettagNum.Checked)

{ item1 = "AssetTagNumber"; }

Checks if the checkbox AssetType is checked

if (chbxAssetType.Checked)

If checkbox AssetType is checked it sets the value "AssetType" to the variable item2

{ item2 = "AssetType"; }

Checks if the checkbox Asset Serial Num is checked

if (chbxAssetSerialNum.Checked)

If checkbox Asset Serial Num is checked it sets the value "AssetSerialNumber" to the variable item3

{ item3 = "AssetSerialNumber"; }

Checks if the checkbox Description is checked

if (chbxDescription.Checked)

If checkbox Description is checked it sets the value "Asset Description" to the variable item4

{ item4 = "AssetDescription"; }

Checks if the checkbox Date Purchased is checked

if (chbxDatePurchased.Checked)

If checkbox Date Purchased is checked it sets the value "AssetDatePurchased" to the variable item5

{ item5 = "AssetDatePurcashed"; }

Checks if the checkbox AssetCost is checked

if (chbxAssetCost.Checked)

If checkbox Asset Cost is checked it sets the value "AssetCost" to the variable item5

{ item6 = "AssetCost"; }

if (chbxAssetState.Checked)

Checks if the checkbox AssetState is checked

{ item7 = "AssetSate"; }

If checkbox Asset Sate is checked it sets the value "AssetState" to the variable item5

itemtypes = item1 + item2 + item3 + item4 + item5 +item6 +item7;

Combines all the data in the variables to form one long string

}

protected void btnFilter2\_Click(object sender, EventArgs e)

Declared variables with string data type to contain the item type

{

string item1, item2, item3, item4, item5, item6, item7, itemtypes;

item1 = "";

item2 = "";

Any previous data stored in the variables are cleared

item3 = "";

item4 = "";

item5 = "";

item6 = "";

item7 = "";

itemtypes = "";

Checks if the checkbox Staff Number is checked

if (chbxStaffNum.Checked)

{ item1 = "SatffNumber"; }

If the checkbox is checked it sets the value "StaffNumber" to the variable item1

Checks if the checkbox Firstname is checked

if (chbxFirstname.Checked)

{ item2 = "SatffFisrtname"; }

If the checkbox is checked it sets the value "Firstname” to the variable item2

Checks if the checkbox Middle name is checked

if (chbxMiddlename.Checked)

{ item3 = "StaffMiddlename"; }

If the checkbox is checked it sets the value “Middlename" to the variable item3

Checks if the checkbox Chair is checked

if (chbxLastname.Checked)

If the checkbox is checked it sets the value "StaffLastname" to the variable item4

{ item4 = "StaffLastname"; }

Checks if the checkbox Staff Office Number is checked

if (chbxStaffOfficenum.Checked)

{ item5 = "StaffOfficeNumber"; }

If the checkbox is checked it sets the value "StaffOfficeNumber" to the variable item5

Checks if the checkbox Asset Tag Number is checked

if (chbxAssettagNum.Checked)

{ item6 = "AssetTagNumber"; }

If the checkbox is checked it sets the value "AssetTagNumber" to the variable item6

Checks if the checkbox Asset Type is checked

if (chbxAssetType.Checked)

If the checkbox is checked it sets the value "AssetType" to the variable item7

{ item7 = "AssetType"; }

Checks if the checkbox Asset Serial Number is checked

if (chbxAssetSerialNum.Checked)

If the checkbox is checked it sets the value "AssetSerialNumber" to the variable item8

{ item8 = "AssetSerialNumber"; }

Checks if the checkbox Description is checked

if (chbxDescription.Checked)

If the checkbox is checked it sets the value "Asset Description" to the variable item9

{ item9 = "AssetDescription"; }

Checks if the checkbox Date Purchased is checked

if (chbxDatePurchased.Checked)

If the checkbox is checked it sets the value "AssetDatePurchased" to the variable item10

{ item10 = "AssetDatePurcashed"; }

if (chbxAssetCost.Checked)

Checks if the checkbox Asset Cost is checked

{ item11 = "AssetCost"; }

If the checkbox is checked it sets the value "Asset Cost" to the variable item11

if (chbxAssetState.Checked)

Checks if the checkbox Asset State is checked

If the checkbox is checked it sets the value "AssetStae" to the variable item12

{ item12 = "AssetSate"; }

itemtypes = item1 + item2 + item3 + item4 + item5 + item6 + item7 + item8 + item9 + item10 + item11 + item12;

Combines all the data in the variables to form one long string

}

}

}

The Portion of Code below is for the DITMAS Search All Asset Records Webpage:

private void btnSearch\_Click(object sender, EventArgs e)

{

These are declared variables.

string Fieldname, Fieldinfo;

Fieldname=ddlAssetField.SelectedItem.ToString();

Extracts data and stores it in variables

Fieldinfo =txtInfo.Text;

}

The Portion of Code below is for the DITMAS Search All Assign Asset Records Webpage:

private void btnSearch\_Click(object sender, EventArgs e)

{

These are declared variables.

string Fieldname, Fieldinfo;

Fieldname=ddlAssetField1.SelectedItem.ToString();

Extracts data and stores it in variables

Fieldinfo =txtInfo1.Text;

}

**Conclusion**

As we proceeded with phase 1 of our DITMAS Website Project we found that we had a lot of problems when it came to extracting data and how would we go about for the project. We had minor issues that led to changing certain features of the GUI. We also found that the current GUI will have to change as we proceed further into the project.