

Hardware Management System

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Esoft - DiSE Class 2017

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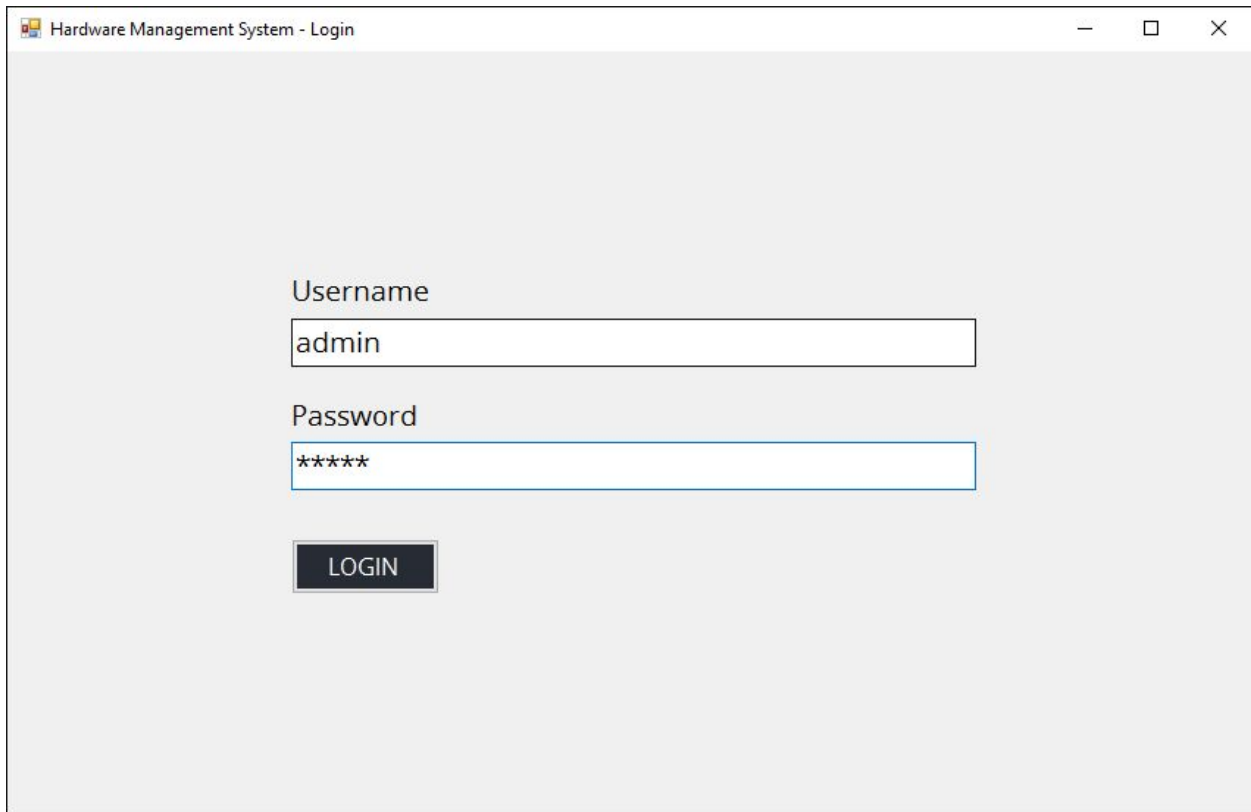
Introduction

Hardware Management System is a simple windows based desktop application which is designed to manage hardware items quantity and prices.

Features

- Login
- Items Listing
- Search/Filter Items
- Add Items
- Edit/Update Items
- Delete Items

Login Page



Hardware Management System - Login

Username

admin

Password

LOGIN

```
using System;
using System.Windows.Forms;

namespace HardwareManagementSystem
{
    public partial class frmLogin : Form
    {
        public frmLogin()
        {
            InitializeComponent();
        }

        private void frmLogin_Closed(object sender, FormClosedEventArgs e)
        {
            Application.Exit();
        }

        private void btnLogin_Click(object sender, EventArgs e)
        {
            if ((txtUsername.Text.ToLower() == "admin") && (txtPassword.Text.ToLower() ==
"admin"))
```

```

        {
            frmMain userMain = new frmMain();
            userMain.Show();
            this.Hide();
        }
        else
        {
            MessageBox.Show("Wrong Username or Password.");
        }
    }

    private void txtUsername_KeyPress(object sender, KeyPressEventArgs e)
    {
        if (e.KeyChar == (char)Keys.Enter)
        {
            e.Handled = true;
            btnLogin.PerformClick();
        }
    }

    private void txtPassword_KeyPress(object sender, KeyPressEventArgs e)
    {
        if (e.KeyChar == (char)Keys.Enter)
        {
            e.Handled = true;
            btnLogin.PerformClick();
        }
    }
}

```

Application Page

Hardware Management System

Item:

Brand:

Price:

Qty:

ADD UPDATE CANCEL EDIT

Search by Item

CHANGE DELETE

| ID | Item | Brand | Price | Qty |
|----|--------------|---------|-------|-----|
| 1 | Paint Brush | Nipolac | 350 | 80 |
| 3 | Hammer | Heinse | 375 | 96 |
| 4 | 70W CFL Bulb | Philips | 200 | 550 |

```

using System;
using System.Data;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace HardwareManagementSystem
{
    public partial class frmMain : Form
    {
        public SqlConnection sqlConnection = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename='C:\Users\Jerad\documents\visual studio
2015\Projects\HardwareManagementSystem\HardwareManagementSystem\StockDB.mdf';Integrated
Security=True;");

        public frmMain()
        {
            InitializeComponent();

            SqlCommand sqlQuery = new SqlCommand("SELECT * FROM tblStores", sqlConnection);
            populate(sqlQuery);
        }

        private void frmMain_Closed(object sender, FormClosedEventArgs e)

```

```

{
    Application.Exit();
}

private void populate(SqlCommand sqlQuery)
{
    try
    {
        SqlDataAdapter sqlAdapter = new SqlDataAdapter(sqlQuery);
        DataTable dataTable = new DataTable();

        sqlAdapter.Fill(dataTable);

        listView.Items.Clear();

        foreach (DataRow dataReader in dataTable.Rows)
        {
            ListViewItem item = new ListViewItem(dataReader["ID"].ToString());
            item.SubItems.Add(dataReader["ITEM"].ToString());
            item.SubItems.Add(dataReader["BRAND"].ToString());
            item.SubItems.Add(dataReader["PRICE"].ToString());
            item.SubItems.Add(dataReader["QTY"].ToString());

            listView.Items.Add(item);
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message, Application.ProductName, MessageBoxButtons.OK,
        MessageBoxIcon.Error);
    }
}

private void txtSearch_TextChanged(object sender, EventArgs e)
{
    SqlCommand sqlQuery;
    if (txtSearch.Text == "")
    {
        sqlQuery = new SqlCommand("SELECT * FROM tblStores", sqlConnection);
    }
    else
    {
        sqlQuery = new SqlCommand("SELECT * FROM tblStores WHERE [ITEM] LIKE '" +
txtSearch.Text + "%'", sqlConnection);
    }

    populate(sqlQuery);
}

private void resetFeilds()

```

```

{
    txtItem.Text = "";
    txtBrand.Text = "";
    txtPrice.Text = "";
    txtQty.Text = "";
}

private void btnAdd_Click(object sender, EventArgs e)
{
    if (String.IsNullOrEmpty(txtItem.Text.Trim()))
    {
        MessageBox.Show("Please fill the Item Feild to continue");
    }
    else if (String.IsNullOrEmpty(txtPrice.Text.Trim()))
    {
        MessageBox.Show("Please fill the Price Feild to continue");
    }
    else if (String.IsNullOrEmpty(txtQty.Text.Trim()))
    {
        MessageBox.Show("Please fill the Quantity (Qty) Feild to continue");
    }
    else
    {
        try {
            float price = float.Parse(txtPrice.Text);
            int qty = int.Parse(txtQty.Text);

            sqlConnection.Open();
            SqlDataAdapter sqlAdapter = new SqlDataAdapter("INSERT INTO
[dbo].[tblStores] " +
                "([ITEM], [BRAND], [PRICE], [QTY]) VALUES ('" +
                txtItem.Text + "', '" +
                txtBrand.Text + "', '" +
                price + "', '" +
                qty + "')", sqlConnection);
            sqlAdapter.SelectCommand.ExecuteNonQuery();

            sqlAdapter.SelectCommand.CommandText = "SELECT @@Identity";
            string addedRecordID =
sqlAdapter.SelectCommand.ExecuteScalar().ToString();

            sqlConnection.Close();

            ListViewItem item = new ListViewItem(addedRecordID);
            item.SubItems.Add(txtItem.Text);
            item.SubItems.Add(txtBrand.Text);
            item.SubItems.Add(txtPrice.Text);
            item.SubItems.Add(txtQty.Text);

            listView.Items.Add(item);

```

```

        resetFeilds();

        MessageBox.Show("Added Record!");
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message, Application.ProductName, MessageBoxButtons.OK,
MessageBoxIcon.Error);
    }
}

private void btnChange_Click(object sender, EventArgs e)
{
    if (listView.SelectedItems.Count == 1)
    {
        string id = listView.SelectedItems[0].SubItems[0].Text;

        SqlDataAdapter sqlAdapter = new SqlDataAdapter("SELECT * FROM
[dbo].[tblStores] WHERE [ID]=" + id, sqlConnection);
        DataTable dataTable = new DataTable();
        sqlAdapter.Fill(dataTable);

        txtItem.Text = dataTable.Rows[0]["ITEM"].ToString();
        txtBrand.Text = dataTable.Rows[0]["BRAND"].ToString();
        txtPrice.Text = dataTable.Rows[0]["PRICE"].ToString();
        txtQty.Text = dataTable.Rows[0]["QTY"].ToString();

        btnAdd.Enabled = false;
        btnChange.Enabled = false;
        btnDelete.Enabled = false;
        btnUpdate.Enabled = true;
        btnCancel.Enabled = true;
    }
    else
    {
        MessageBox.Show("Please select a record");
    }
}

private void btnCancel_Click(object sender, EventArgs e)
{
    btnAdd.Enabled = true;
    btnChange.Enabled = true;
    btnDelete.Enabled = true;
    btnUpdate.Enabled = false;
    btnCancel.Enabled = false;

    resetFeilds();
}

```



```

private void btnUpdate_Click(object sender, EventArgs e)
{
    if (String.IsNullOrEmpty(txtItem.Text.Trim()))
    {
        MessageBox.Show("Item feild cannot be empty");
    }
    else if (String.IsNullOrEmpty(txtPrice.Text.Trim()))
    {
        MessageBox.Show("Price feild cannot be empty");
    }
    else if (String.IsNullOrEmpty(txtQty.Text.Trim()))
    {
        MessageBox.Show("Quantity (Qty) feild cannot be empty");
    }
    else
    {
        try
        {
            float price = float.Parse(txtPrice.Text);
            int qty = int.Parse(txtQty.Text);

            string id = listView.SelectedItems[0].SubItems[0].Text;

            sqlConnection.Open();
            SqlDataAdapter sqlAdapter = new SqlDataAdapter("UPDATE [dbo].[tblStores]
SET " +
                "[ITEM]='" + txtItem.Text + "'," +
                "[BRAND]='" + txtBrand.Text + "'," +
                "[PRICE]='" + price + "'," +
                "[QTY]='" + qty + "' " +
                "WHERE [ID]='" + id, sqlConnection);
            sqlAdapter.SelectCommand.ExecuteNonQuery();
            sqlConnection.Close();

            listView.SelectedItems[0].SubItems[1].Text = txtItem.Text;
            listView.SelectedItems[0].SubItems[2].Text = txtBrand.Text;
            listView.SelectedItems[0].SubItems[3].Text = txtPrice.Text;
            listView.SelectedItems[0].SubItems[4].Text = txtQty.Text;

            btnAdd.Enabled = true;
            btnChange.Enabled = true;
            btnDelete.Enabled = true;
            btnUpdate.Enabled = false;
            btnCancel.Enabled = false;

            resetFeilds();

            MessageBox.Show("Record Updated!");
        }
    }
}

```

```

        catch (Exception ex)
        {
            MessageBox.Show(ex.Message, Application.ProductName, MessageBoxButtons.OK,
MessageBoxIcon.Error);
        }
    }

    private void btnDelete_Click(object sender, EventArgs e)
    {
        if (listView.SelectedItems.Count == 1)
        {
            DialogResult dialogResult = MessageBox.Show("Are you sure you want to delete
this record?", "Delete", MessageBoxButtons.YesNo);
            if (dialogResult == DialogResult.Yes)
            {
                string id = listView.SelectedItems[0].SubItems[0].Text;

                sqlConnection.Open();
                SqlDataAdapter sqlAdapter = new SqlDataAdapter("DELETE FROM
[dbo].[tblStores] WHERE [ID]=" + id, sqlConnection);
                sqlAdapter.SelectCommand.ExecuteNonQuery();
                sqlConnection.Close();

                listView.SelectedItems[0].Remove();

                MessageBox.Show("Record Deleted!");
            }
        }
        else
        {
            MessageBox.Show("Please select a record to delete");
        }
    }
}

```