



**SDJ INTERNATIONAL  
COLLEGE**

## Bachelor of Computer Applications (BCA) Programme

### Project Report

BCA Sem IV  
AY 2022-23

*Project Title : Stock Management System*

by

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Project Guide by :  
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**SDJ INTERNATIONAL  
COLLEGE**

## C E R T I F I C A T E

This is to certify that **Mr. Prince Bhandari** examination number \_\_\_\_\_ has satisfactorily completed his/her project work entitled **Stock Management System** as partial fulfillment of requirements for BCA Sem IV, during the academic year 2022-23.

Date: 21/01/2023

Place: Surat

Prof.Nidhi Desai  
SDJ International College,  
Surat

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## Introduction

### 1.1 Project Summary

A stock market, also known as a stock exchange, is a venue to trade securities, such as [bonds](#) and shares. Sellers of securities are matched with their buyers in a stock market and they trade with each other using rules imposed by the market's governing authority.

Stock markets began as physical locations where traders gathered buy and sell shares but most trades are now conducted online. Some markets like the [National Association of Securities Dealers Automated Quotations \(NASDAQ\)](#) do not have physical trading floors at all and all [transactions](#) occur online.

Others, like the NYSE, have a hybrid system in which physical trading comprises a small portion of the market's overall volume. Stock markets serve an important function in the economy by enabling entrepreneurs to raise [capital](#) and companies to expand their operations using funding from the markets.

On the other side, stock markets generate [profits](#) for buyers of securities by making informed bets on growth prospects for these companies. These tasks are accomplished with the help of extensive regulation that govern trades and enforce mandatory disclosure of details from both sides. Depending on trading volume and economic conditions, stock markets can be bellwethers of the broader economy.

## 1.2 Project Technical Profile

### Software Requirement:-

<b>Software Configuration</b>	
<b>Browser</b>	Microsoft Internet Explorer, Mozilla Firefox and Google Chrome
<b>Operating System</b>	Windows 8.1 and Windows 10 Pro
<b>Front End</b>	Microsoft Visual Studio 2010
<b>Back End</b>	Microsoft Office Access

### Hardware Requirements:-

<b>Hardware Configuration</b>	
<b>Processor</b>	Intel(R) Core(TM) i3-5005U CPU @ 2.00GHz 2.00GHz
<b>RAM</b>	4.00 GB
<b>Hard Disk</b>	500 GB
<b>System Type</b>	64-bit Operating System, x64-based processor

## **SCOPE:-**

The scope of a stock management system can vary depending on the size and complexity of the business. Generally, it involves tracking the purchase and sale of inventory, forecasting future demand, and monitoring stock levels. It may also include managing supplier relationships, setting stocking policies, and reporting on inventory performance.

Stock Management System (SMS) is targeted to the small or medium organization which doesn't have many warehouses only to those organization that has single power of authority. Some of the scope are:

- Only one person is responsible in assigning the details or records
- It is security driven.
- Store house can be added as per the requirement.

## **OBJECTIVE:-**

### **Primary objective**

The primary objectives of the project are mentioned below:

- To know the fundamentals of the .Net Technology and Visual Studio with the .Net Framework.

### **Secondary objective**

The secondary objectives of this project are mentioned below:

- To develop an application that deals with the day to day requirement of any production organization.
- To develop the easy management of the inventory.
- To handle the inventory details like sales details, purchase details and balance Stock details.

- To provide competitive advantage to the organization.
- To provide details information about the stock balance.
- To make the stock manageable and simplify the use of inventory in the organization.

## **2.1 Requirement Analysis**

We collected a number of requirements for project from our primitive research, website visits, and interview to the concerned personnel and their experiences regarding the concepts of its development. We have even visited some organization in Dhaka and analyze its importance and try to develop the project by fulfilling all the weakness that were found in the application. We then decided to build same type of application with different logic flow and new language which will be suitable for the small organization.

The goal for the application is to manage the stock management function of the organization. Once it is automated all the functions can be effectively managed and the organization can achieve the competitive advantage. Business requirement are discussed in the Scope section, with the following additional details:

- Helps to search the specific product and remaining stock.
- Details information about the product sales and purchase.
- Brief Information of the organization todays status in terms of news, number of present stock as per the date entered.
- It helps to identify the total presented inventory in the company.
- To know the balance and details of sales distributed in specific date.
- There is proper transaction management of stock.
- All transaction have specific entry date along with quantity and rate.
- Only admin can login in the page
- We also visited websites for getting knowledge about existing system.

E.g. <https://iqbroker.com>

<https://www.angelone.in>

<https://zerodha.com>

### **Understanding the Process of System:**

- How to Manage all Forms?
- How to Manage Login?
- How to know How Many users are Created and How many Queries are Generated on the Particular Day?
- How to Manage All Forms linked with Each Other?
- How to Manage the Bunch of a Particular Member So that It can have the Security purpose and Keep the Data Private?
- How to Perform All User Security Level and Perform A Authentication and Give Personal Account to each User for Security Purpose?

### **Admin:-**

- Able to create new warehouse along with date.
- Able to edit the entry as per entry.
- Able to add, modify and delete the stock entry.

### **General:-**

- Able to check the stock available.
- Able to check the balance payment.
- Able view the remaining sales stock.
- Able to generate reports.

#### **❖ System should provide following information to Admin**

- Login User
- Stock Information
- Purchase Stock Information
- Portfolio Information
- Sale Stock Information
- Funds Details

## **2.2 Technology Details**

### **Technology used:**

- Maintenance is required at given fixed time duration.
- Power failure may happen so UPS is required.
- Data may be loss at some time because of virus or any take backup at some regular.
- It is a general system; hence there is unique form layout & format.
- This Project is to be developed as a part of curriculum & to be submitted within a period of 1 months.

### **Hardware Specification:**

1. **Processor :** Intel(R) Core(TM) i3-5005U CPU @ 2.00GHz 2.00GHz
2. **Memory :** 4.00 GB
3. **Hard Disk :** 500 GB
4. **SSD :** 256 GB
5. **Printer :** Laser Printer

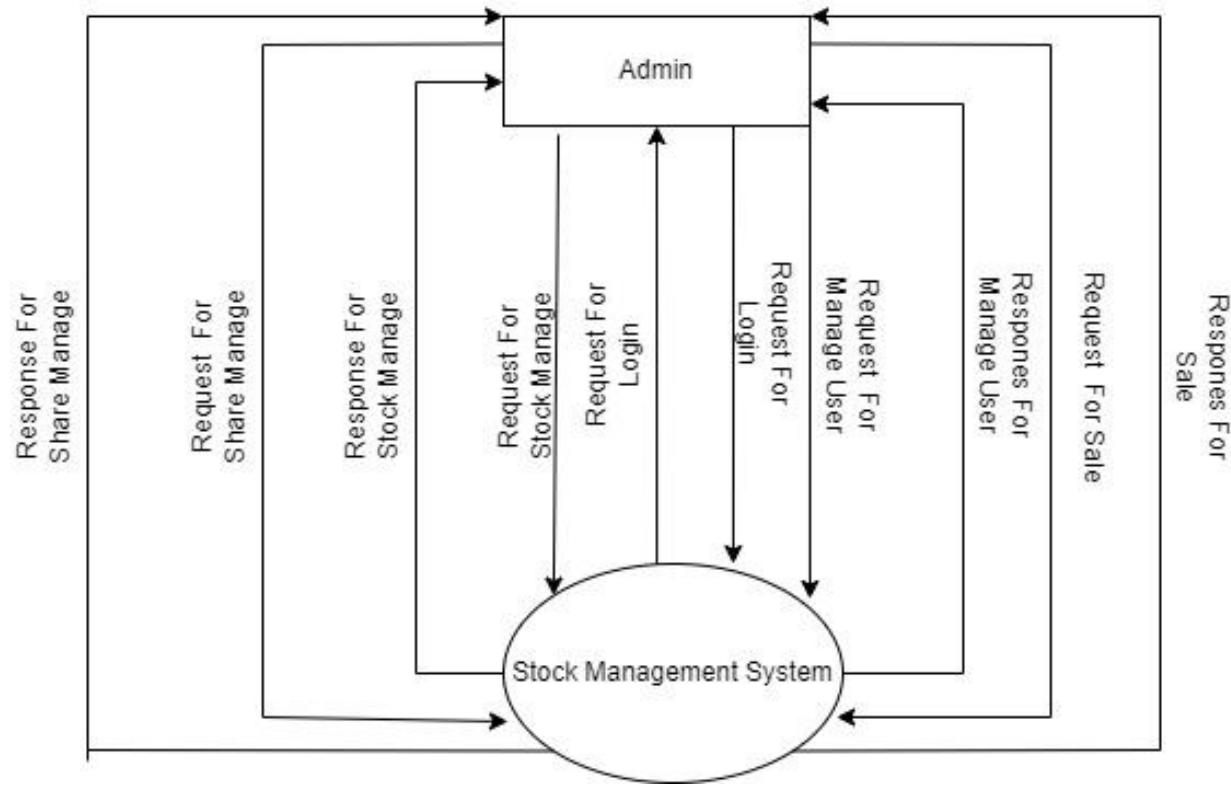
### **Software Specification:**

1. **Operating System :** Microsoft Windows 8.1 and Windows 10 Pro
2. **Front End :** Microsoft Visual Studio 2010
3. **Back End :** Microsoft Office Access
4. **Input Device :** Keyboard, Mouse
5. **Output Device :** Monitor, Printer

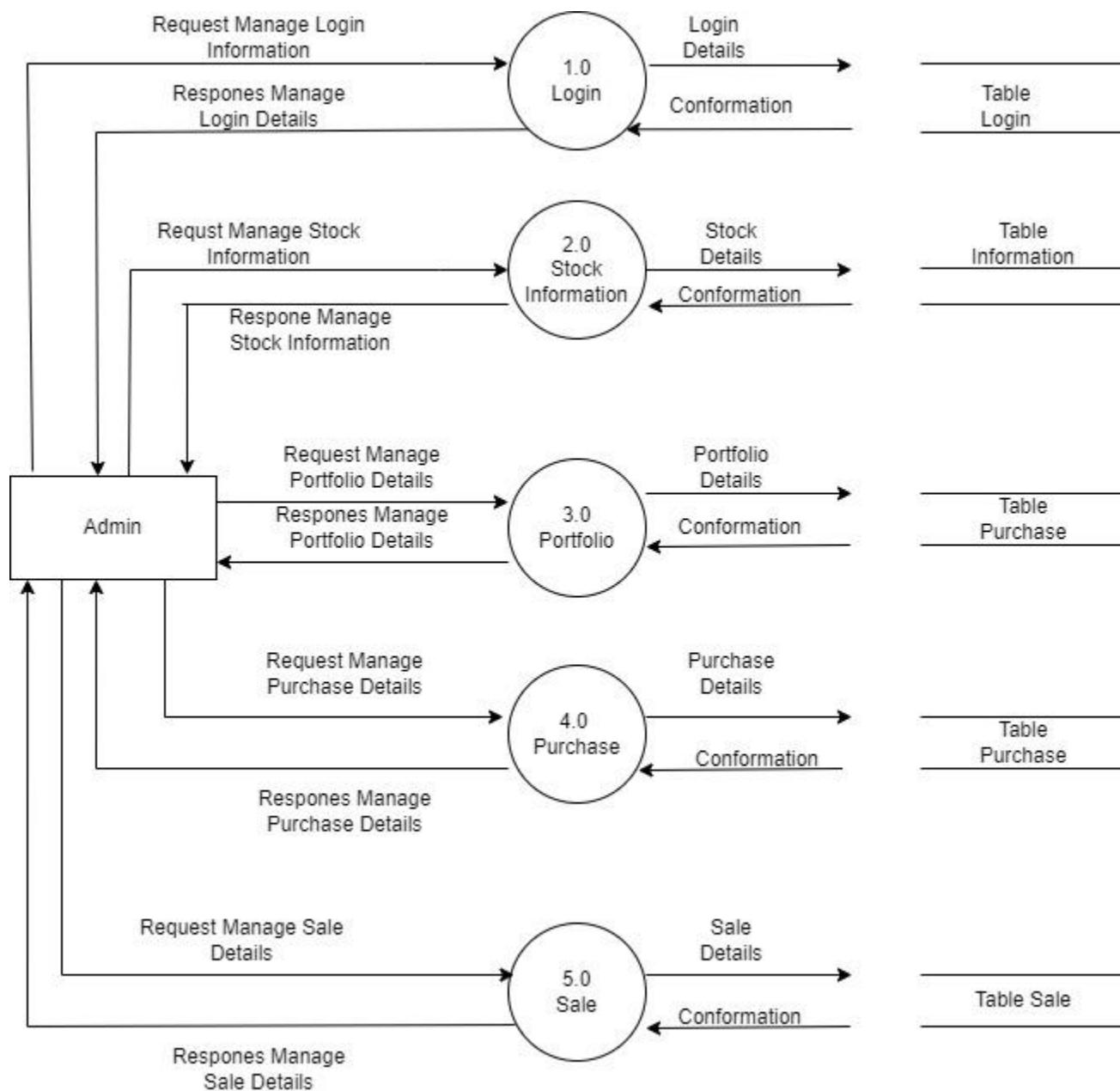
# Designing

## 3.1 Data Flow Diagram

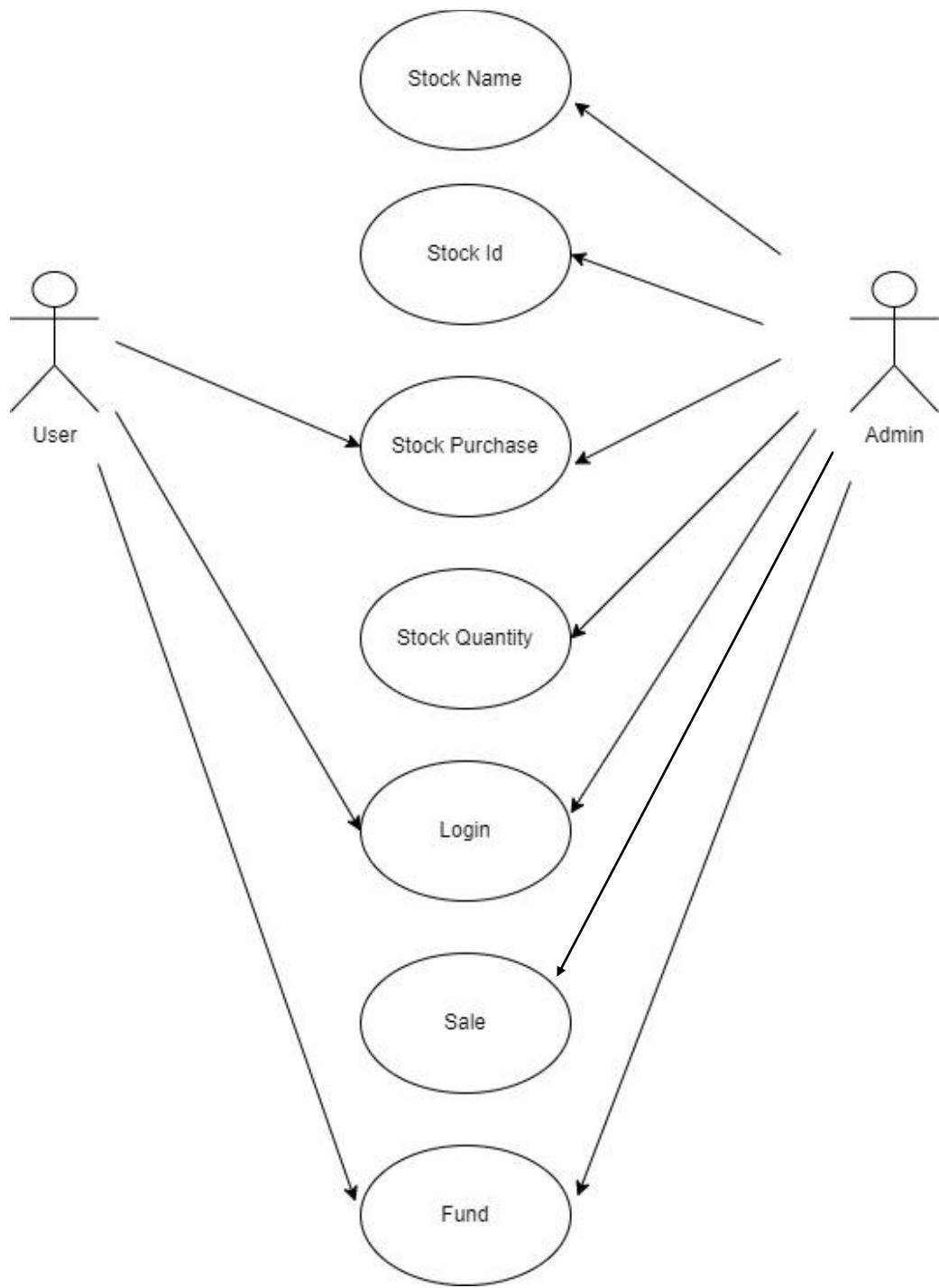
### Context Level



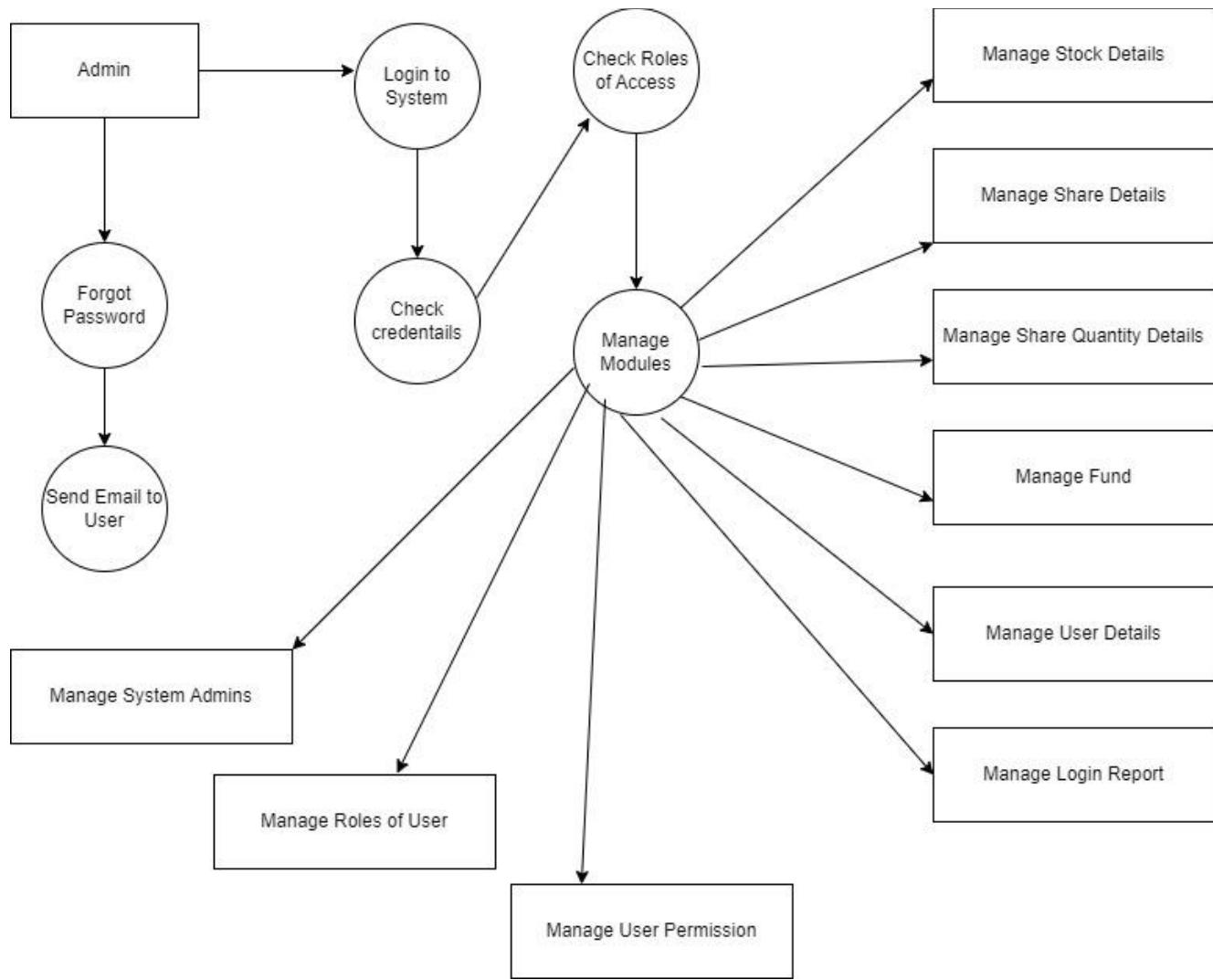
## 1<sup>ST</sup> Level

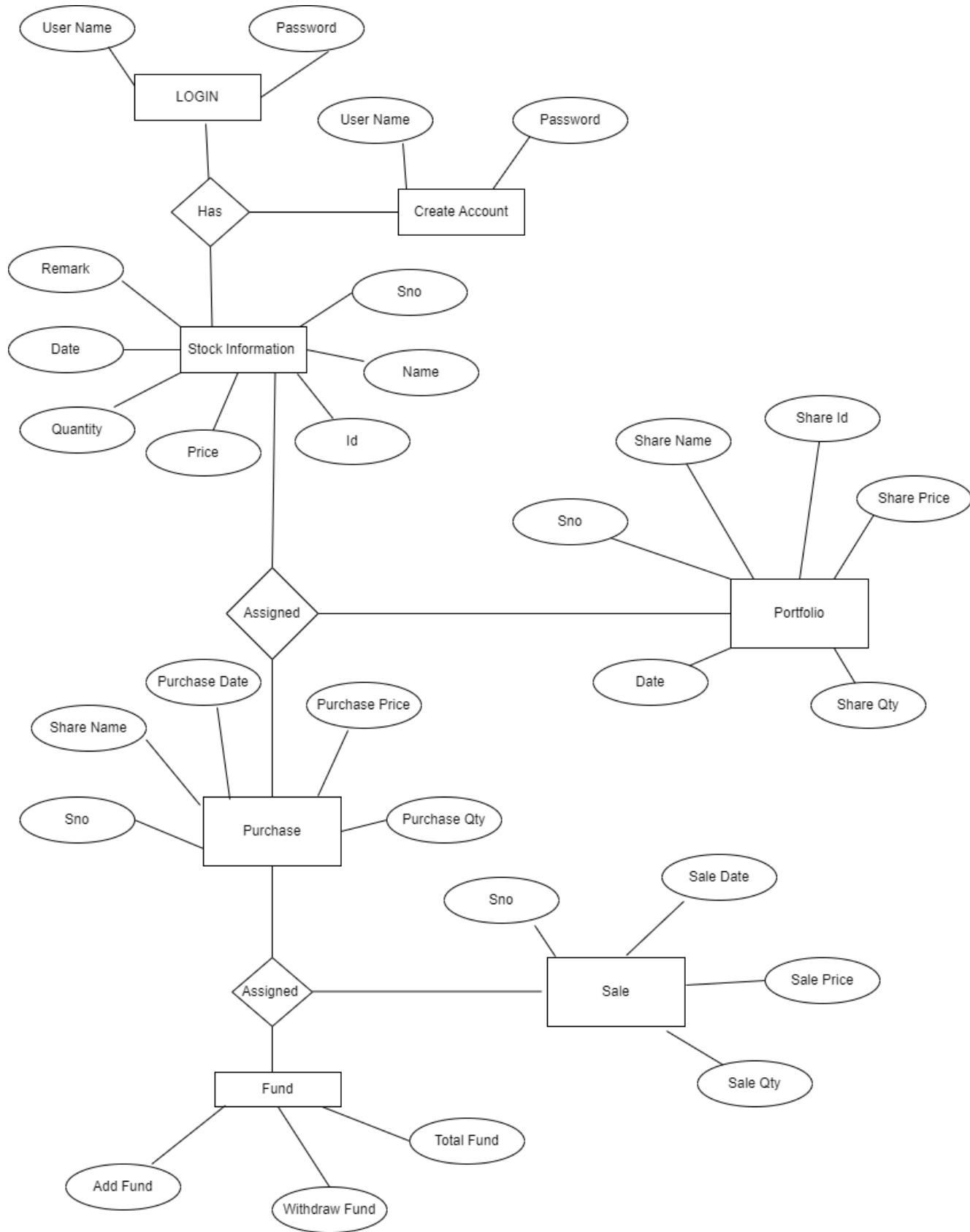


### 3.2 Use Case Diagram



## 2<sup>nd</sup> Level





### 3.4 Database Design & 3.5 Data Dictionary

**Table name:** Login

**Description:** This Table gives Detail about Login Information

FIELD NAME	FIELD TYPE	CONSTRAINT	DESCRIPTION
<b>User Name</b>	Text	Not Null	User Name
<b>Password</b>	Text	Not Null	Password

**Table name:** Create Account

**Description:** This Table gives Detail about Create Account Information

FIELD NAME	FIELD TYPE	CONSTRAINT	DESCRIPTION
<b>User Name</b>	Text	Not Null	User Name
<b>Password</b>	Text	Not Null	Password

**Table name:** Stock Information

**Description:** This Table gives Detail about Stock of Share Information

FIELD NAME	FIELD TYPE	CONSTRAINT	DESCRIPTION
<b>Sno</b>	Number	Primary Key	Serial Number
<b>Stock Id</b>	Number	Not Null	Stock Id
<b>Stock Name</b>	Text	Not Null	Stock Name
<b>Stock Price</b>	Number	Not Null	Stock Price
<b>Quantity</b>	Number	Not Null	Quantity
<b>Date</b>	Date	Not Null	Date
<b>Remark</b>	Text	Not Null	Remark

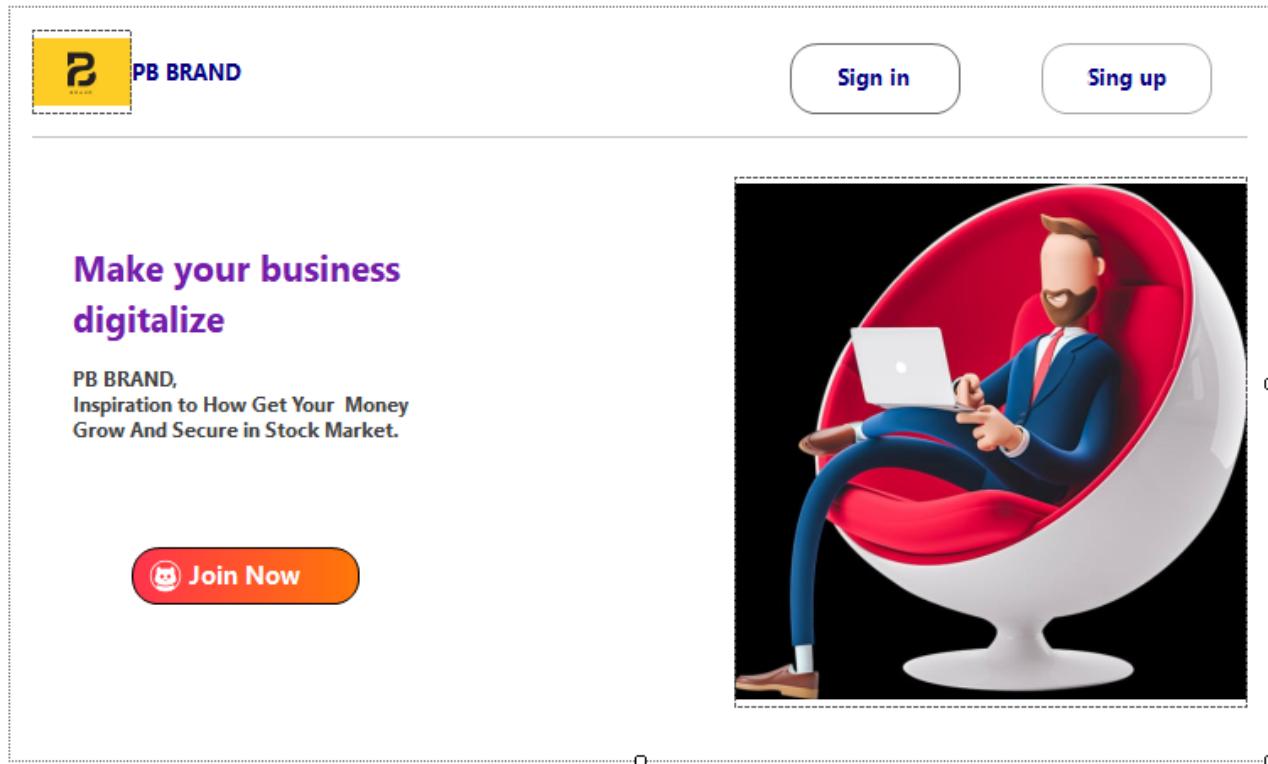
**Table name:** Purchase

**Description:** This Table gives Detail about Share Purchase Information

FIELD NAME	FIELD TYPE	CONSTRAINT	DESCRIPTION
Sno	Number	Primary Key	Serial Number
Share Id	Number	Not Null	Stock Id
Share Name	Text	Not Null	Stock Name
Share Price	Number	Not Null	Stock Price
Share Quantity	Number	Not Null	Quantity
Purchase Date	Date	Not Null	Date
Remark	Text	Not Null	Remark

### 3.6 User Interface & Coding

#### Loading



**Description :-** This is an Loading page and this page is used to Login and Create Account.

```

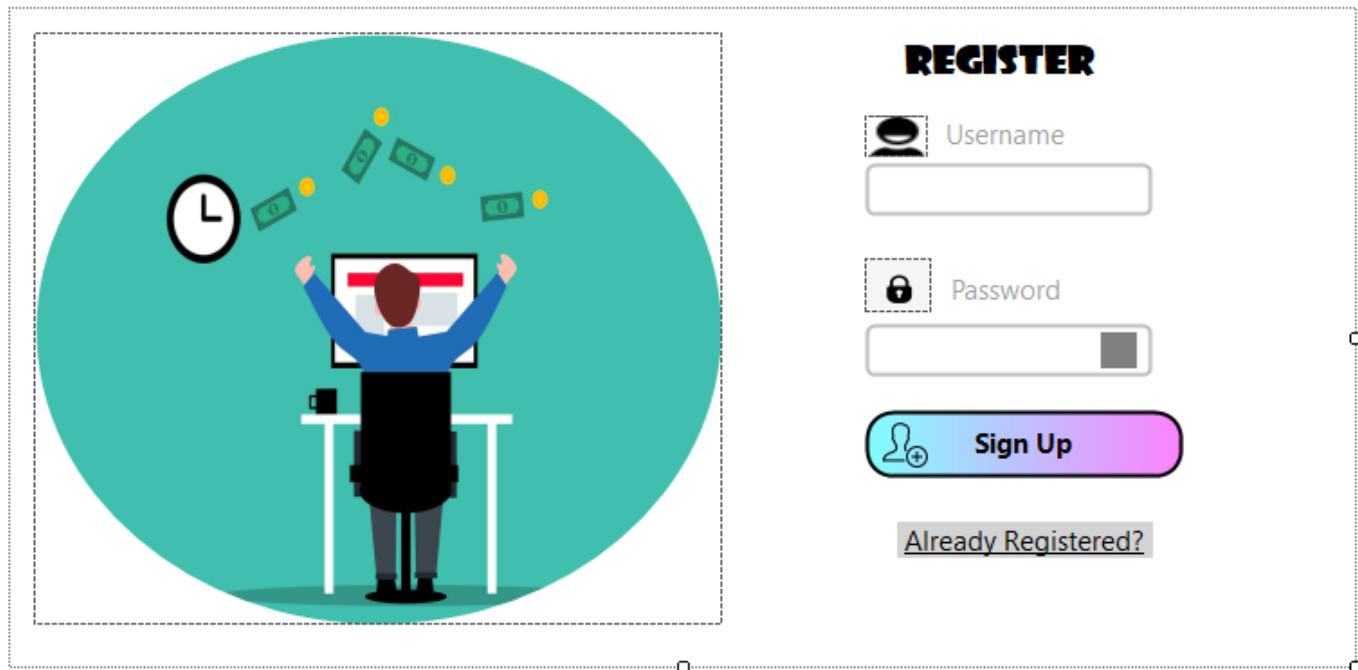
Private Sub GunaButton2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaButton2.Click
    Caccount.Show()
    Me.Hide()
End Sub

Private Sub GunaButton1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaButton1.Click
    Login.Show()
    Me.Hide()
End Sub

Private Sub GunaGradientButton1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaGradient
    MsgBox("Insta Id = prince_.022", MsgBoxStyle.Exclamation)
End Sub

```

## Create Account



**Description :-** This is an admin Register page and this page is used to Create Account.

```

Sub save()
    Try
        cn.Open()

        Dim i As New Integer
        cmd = New OleDbCommand("insert into login values ('" + Username.Text + "','" + Password.Text + "')", cn)

        i = cmd.ExecuteNonQuery()

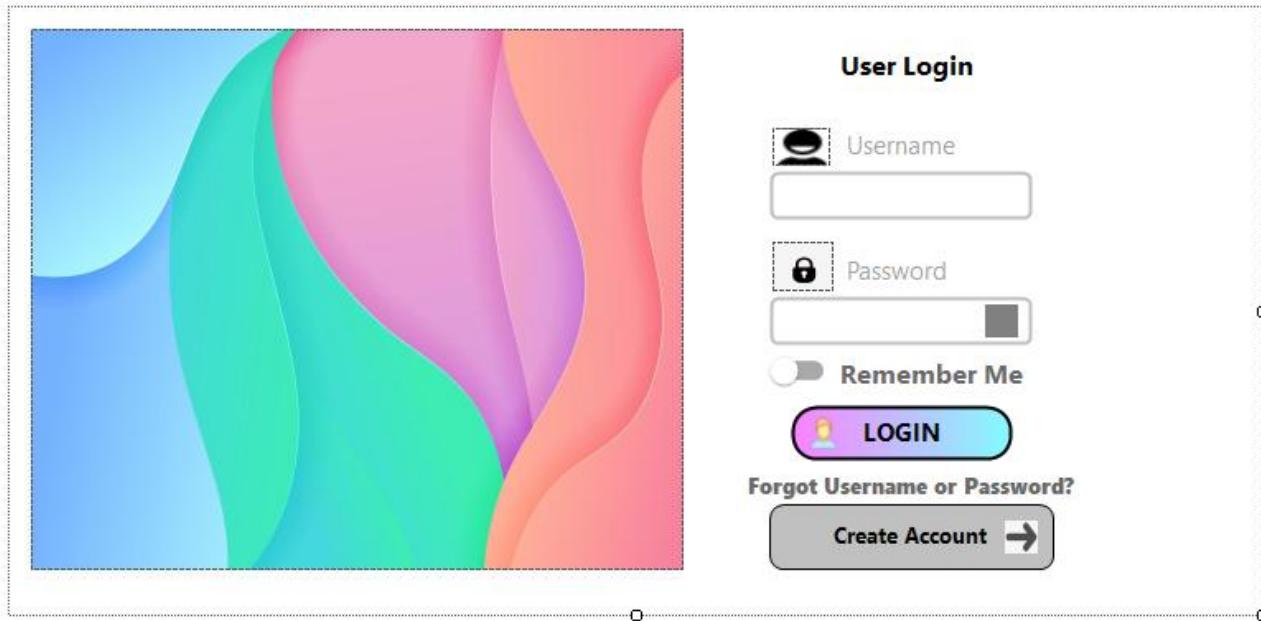
        If i > 0 Then
            MsgBox("New User Register Success !", vbInformation)
        Else
            MsgBox("New User Register Failed !", vbCritical)
        End If

        Catch ex As Exception
            MsgBox(ex.Message)
        End Try
        cn.Close()
        Login.Show()
        Me.Hide()
    End Sub

    Private Sub GunaGradientButton1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaGradientButton1.Click
        save()
    End Sub

```

## Login



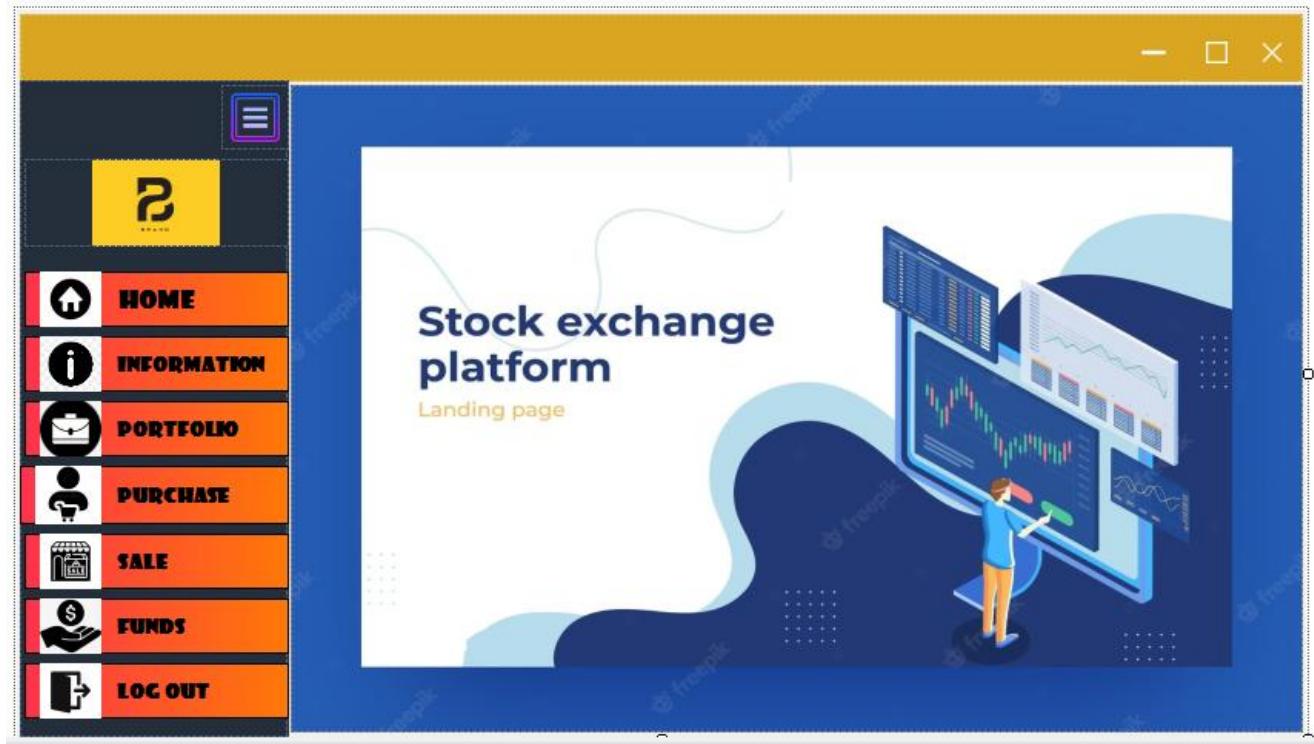
**Description :-** This is an admin Login page and this page is used to Login.

```

Private Sub GunaGradientButton1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Btnlogin.Click
    cn.Open()
    Dim cmd As OleDbCommand = New OleDbCommand("select * from login where [Username]='" + User.Text + "' and [Password] ='" + Pass.Text + "'")
    Dim ad As OleDbDataReader = cmd.ExecuteReader
    If (ad.read() = True) Then
        Me.Hide()
        Home.Show()
        MsgBox("login success" + vbCrLf + "login user : " + User.Text, MsgBoxStyle.Information)
    Else
        MsgBox("login failed", MsgBoxStyle.Critical)
    End If
    cn.Close()
    Pass.Clear()
    User.Clear()
End Sub

```

## Home Page



**Description :-** This is an admin Main page and this page is connected with every page.

```
Private Sub GunaGradientButton3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaGradient
    Dim f1 As New Infomation
    f1.Owner = Me
    f1.ShowInTaskbar = False
    f1.ShowDialog()

End Sub

Private Sub GunaGradientButton2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaGradient
    Dim f2 As New portfolio
    f2.Owner = Me
    f2.ShowInTaskbar = False
    f2.ShowDialog()

End Sub

Private Sub GunaGradientButton4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaGradient
    Dim f3 As New purchase
    f3.Owner = Me
    f3.ShowInTaskbar = False
    f3.ShowDialog()

End Sub
```

Ac

## Insert Stock Details

**Description :-** This is an Insert Information page by this page you can Insert Information of Stock.

```
Private Sub btnInsert_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnInsert.Click
    If cn.State = ConnectionState.Closed Then
        cn.Open()
    End If
    If GunaTextBox1.Text = "" Then
        MsgBox("Enter the Detail", MsgBoxStyle.Exclamation)
    Else
        cmd = New OleDbCommand("insert into Info values ('" + GunaTextBox1.Text + "','" + GunaTextBox2.Text + "','" + GunaTextBox3.Text + "','" + GunaTextBox4.Text + "','" + Guna
        cmd.ExecuteNonQuery()

        MsgBox("Inserted...")
    End If
    GunaTextBox1.Clear()
    GunaTextBox2.Clear()
    GunaTextBox3.Clear()
    GunaTextBox4.Clear()
    GunaTextBox5.Clear()
    RichTextBox1.Clear()
    cn.Close()
    load_data()
End Sub
```

## Update Stock Details



- [!\[\]\(a9de43cf9992a9de1ce3730357a47d91\_img.jpg\) HOME](#)
- [!\[\]\(810a357440b2516c9a71943a739f83ff\_img.jpg\) INFORMATION](#)
- [!\[\]\(16ee02bd6e33643dc29fe53fb353f96a\_img.jpg\) PORTFOLIO](#)
- [!\[\]\(7e1e071a520ac388a6fcdd1c7c1ee1d7\_img.jpg\) PURCHASE](#)
- [!\[\]\(ad1c84f2878fc2d8e7a79604069750a5\_img.jpg\) SALE](#)
- [!\[\]\(0fffe6602d01c96b9a7b420d3f1d4785\_img.jpg\) FUNDS](#)
- [!\[\]\(64b03fded82e8a7f35c7ce677cf2e746\_img.jpg\) LOG OUT](#)

**Stock Information**

Stock Description

S.no	3
Stock Id	453647
Stock Name	Axis Bank
Price	700
Qty	3000
Date	23 January 2023

Remark

Karki and gupta suggest buying axis ba



Insert
Update
Search
Delete

New Update has been set.

Changes are now saved

### STOCK LIST

1	123321	Hdfc Bank	1500	1000	13-07-2022	Hdfc Bank private Se...
2	768798	Apple	2000	5000	20-10-2021	Apple is one of the lar...
3	453647	Axis Bank	700	4000	22-02-2020	Karki and gupta sugg...
4	174973	Wipro	1000	1000	17-08-2019	Wipro is the multinati...
5	194857	TCS	600	3000	23-07-2020	Tech mahindra and t...
6	129845	Nestle	2000	25000	02-01-2021	Nestle association wit...
8	129856	Hindalgo	750	5000	13-01-2023	Higer stock
11	123498	LIC	1000	1200	22-01-2023	LIC IPO NOW LAUN...

**Description :-** This is an Update Information page by this page you can Update Information of Stock .

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```

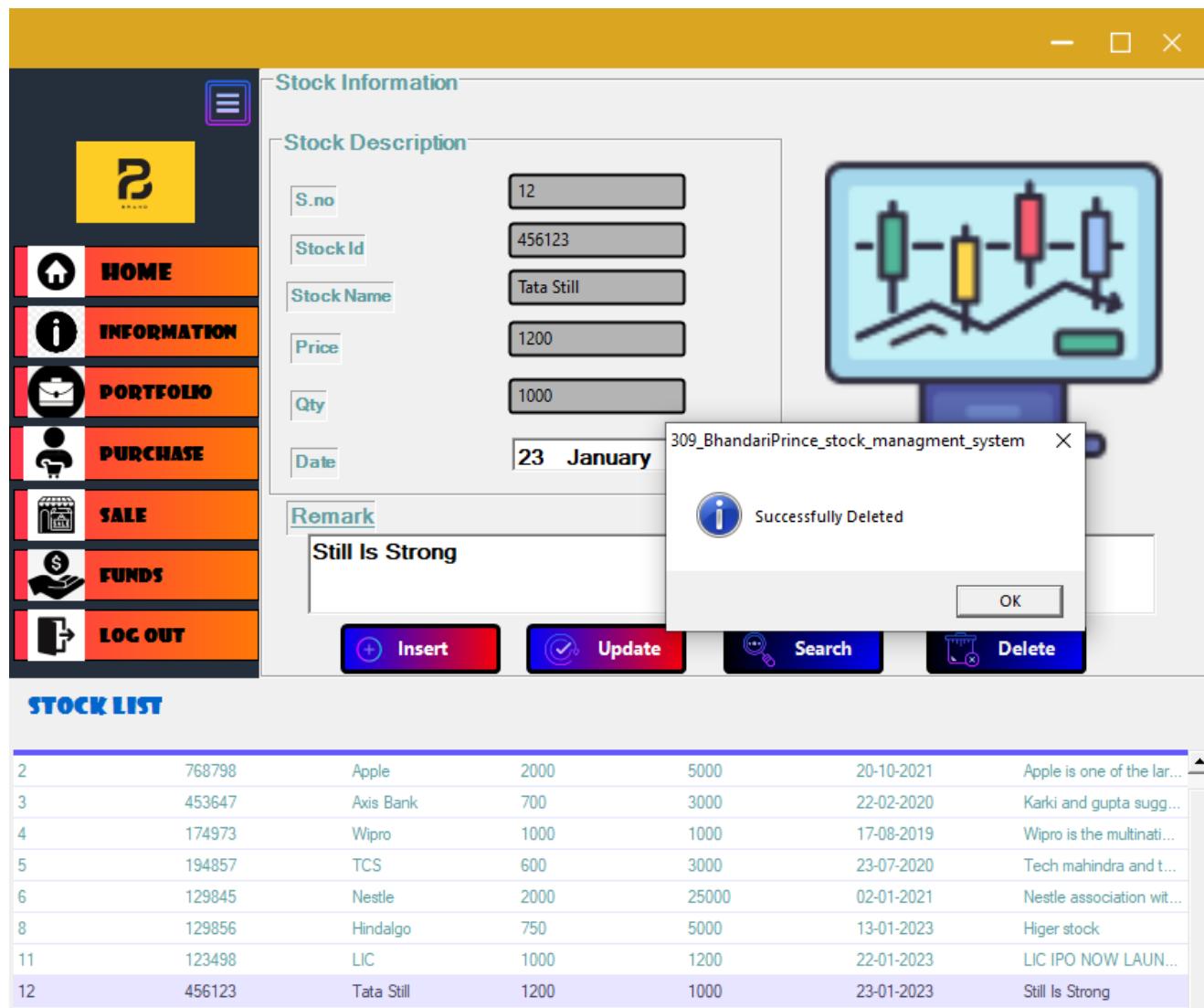
Private Sub btnUpdate_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnUpdate.Click
    If cn.State = ConnectionState.Closed Then
        cn.Open()
    End If
    If GunaTextBox1.Text = "" Then
        MsgBox("Select The Sher", MsgBoxStyle.Exclamation)
    Else

        Dim sqlUpdate As String
        Dim sqlUpdatePass As DialogResult
        sqlUpdate = "UPDATE Info SET [Stock Id] = '" & GunaTextBox2.Text & "','" & [Stock Name] = '" & GunaTextBox3.Text & "','" & [Price] = " & GunaTextBox4.Text & ",[Qty] = " & GunaTextBox5.Text & "'"
        cmd = New OleDbCommand(sqlUpdate, cn)
        Try
            sqlUpdatePass = MessageBox.Show("Are you sure to save this changes?", "Save changes?", MessageBoxButtons.YesNo, MessageBoxIcon.Question)
            If sqlUpdatePass = vbYes Then
                cmd.ExecuteNonQuery()
                MsgBox("Changes are now saved", MsgBoxStyle.Information, "New Update has been set.")
                load_data()
            Else
                Exit Sub
            End If
        Catch ex As Exception
            MsgBox("Could not perform this task because " & ex.Message, MsgBoxStyle.Exclamation, "Error")
        End Try
    End If
    cn.Close()

```

[Activate Windows](#)

## Delete Stock Details



**Stock Description**

S.no	12
Stock Id	456123
Stock Name	Tata Still
Price	1200
Qty	1000
Date	23 January

**Remark**  
Still Is Strong

**Buttons:** Insert, Update, Search, Delete

**STOCK LIST**

2	768798	Apple	2000	5000	20-10-2021	Apple is one of the lar...
3	453647	Axis Bank	700	3000	22-02-2020	Karki and gupta sugg...
4	174973	Wipro	1000	1000	17-08-2019	Wipro is the multinati...
5	194857	TCS	600	3000	23-07-2020	Tech mahindra and t...
6	129845	Nestle	2000	25000	02-01-2021	Nestle association wit...
8	129856	Hindalgo	750	5000	13-01-2023	Higer stock
11	123498	LIC	1000	1200	22-01-2023	LIC IPO NOW LAUN...
12	456123	Tata Still	1200	1000	23-01-2023	Still Is Strong

**Description :-** This is an Delete Information page by this page you can Delete Information of Stock .

---

```
Private Sub btnDelete_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnDelete.Click
    If cn.State = ConnectionState.Closed Then
        cn.Open()
    End If

    If GunaTextBox1.Text = "" Then
        MsgBox("Select The Sher", MsgBoxStyle.Exclamation)
    Else
        MsgBox("Successfully Deleted", MsgBoxStyle.Information)

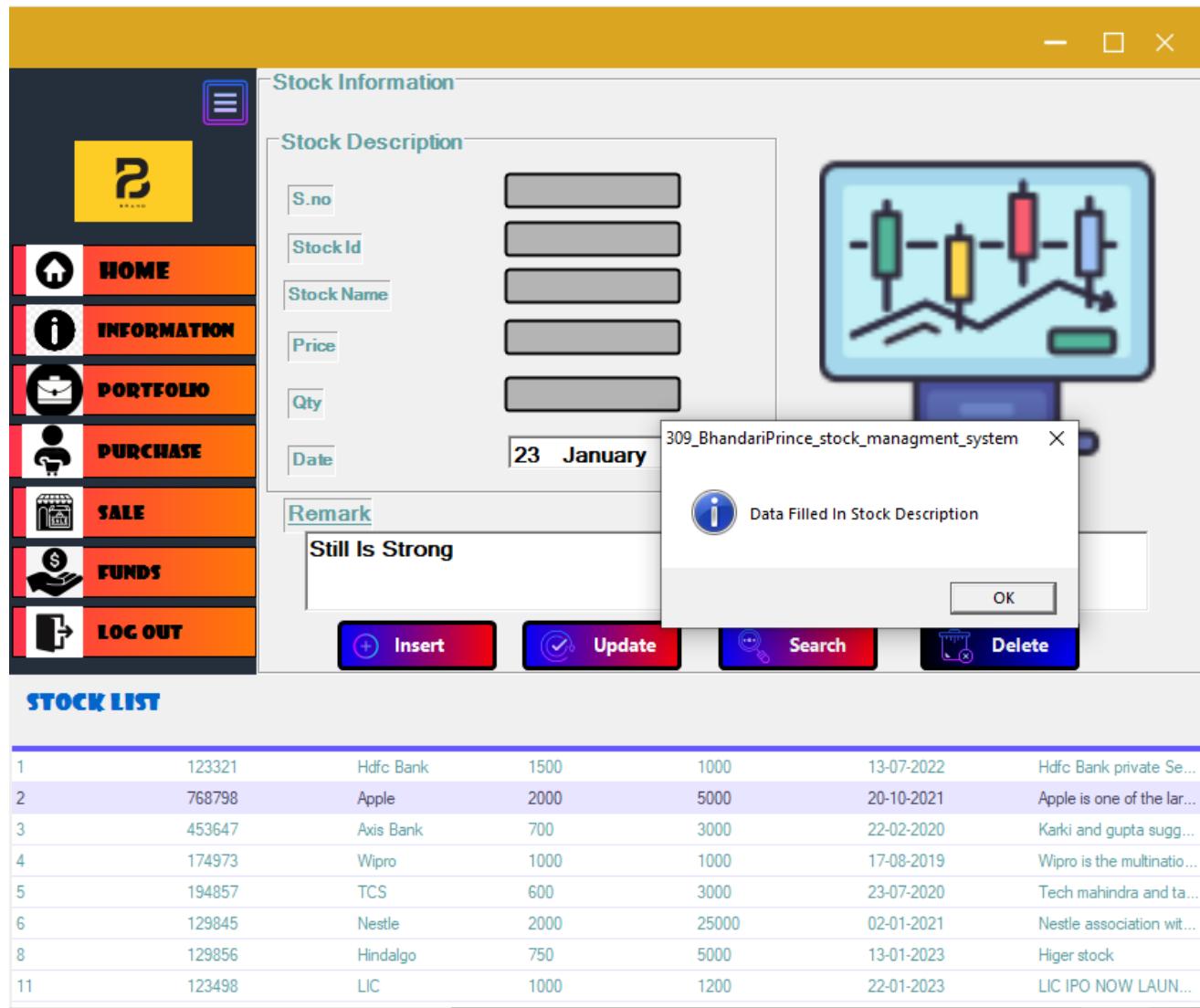
        Dim cmd As OleDbCommand
        cmd = New OleDbCommand("delete from Info where Sno=" + GunaTextBox1.Text + "", cn)
        cmd.ExecuteNonQuery()
    End If

    cn.Close()

    GunaTextBox1.Clear()
    GunaTextBox2.Clear()
    GunaTextBox3.Clear()
    GunaTextBox4.Clear()
    GunaTextBox5.Clear()
    load_data()
End Sub
```

---

## Search Stock Details



The screenshot shows the Stock Management System interface. On the left, there is a vertical navigation menu with icons and labels: HOME, INFORMATION, PORTFOLIO, PURCHASE, SALE, FUNDS, and LOG OUT. The main area is titled "Stock Information" and contains a form for "Stock Description". The form fields include S.no, Stock Id, Stock Name, Price, Qty, and Date (set to 23 January). Below the form is a "Remark" section containing the text "Still Is Strong". At the bottom of the form are four buttons: Insert, Update, Search, and Delete. A tooltip window titled "309\_BhandariPrince\_stock\_managment\_system" appears, stating "Data Filled In Stock Description" with an "OK" button.

STOCK LIST						
1	123321	Hdfc Bank	1500	1000	13-07-2022	Hdfc Bank private Se...
2	768798	Apple	2000	5000	20-10-2021	Apple is one of the lar...
3	453647	Axis Bank	700	3000	22-02-2020	Karki and gupta sugg...
4	174973	Wipro	1000	1000	17-08-2019	Wipro is the multinatio...
5	194857	TCS	600	3000	23-07-2020	Tech mahindra and ta...
6	129845	Nestle	2000	25000	02-01-2021	Nestle association wit...
8	129856	Hindalco	750	5000	13-01-2023	Higer stock
11	123498	LIC	1000	1200	22-01-2023	LIC IPO NOW LAUN...

**Description :-** This is an Search Information page by this page you can Search Information of Stock.

```
Private Sub btnSearch_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnSearch.Click
    If cn.State = ConnectionState.Closed Then
        cn.Open()
    End If

    GunaTextBox1.Clear()
    GunaTextBox2.Clear()
    GunaTextBox3.Clear()
    GunaTextBox4.Clear()
    GunaTextBox5.Clear()

    If GunaTextBox1.Text = "" Then
        MsgBox("Select The Sher", MsgBoxStyle.Exclamation)
    End If
End Sub

Private Sub GunaDataGridView1_CellContentClick(ByVal sender As System.Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs) Handles GunaDataGridView1.CellContentClick
End Sub

Private Sub GunaDataGridView1_CellClick(ByVal sender As System.Object, ByVal e As System.Windows.Forms.DataGridViewCellEventArgs) Handles GunaDataGridView1.CellClick
    MsgBox("Data Filled In Stock Description", MsgBoxStyle.Information)
    GunaTextBox1.Text = GunaDataGridView1.CurrentRow.Cells(0).Value
    GunaTextBox2.Text = GunaDataGridView1.CurrentRow.Cells(1).Value
    GunaTextBox3.Text = GunaDataGridView1.CurrentRow.Cells(2).Value.ToString
    GunaTextBox4.Text = GunaDataGridView1.CurrentRow.Cells(3).Value
    GunaTextBox5.Text = GunaDataGridView1.CurrentRow.Cells(4).Value
    RichTextBox1.Text = GunaDataGridView1.CurrentRow.Cells(6).Value.ToString
End Sub
```

## Portfolio



The screenshot shows a Windows-style application window titled "PORTFOLIO LIST". On the left is a vertical navigation sidebar with icons and labels: HOME, INFORMATION, PORTFOLIO (highlighted in blue), PURCHASE, SALE, FUNDS, and LOG OUT. The main area displays a table of stock holdings:

Sno	Stock Id	Stock Name	Price	Qty	Dop
2	768798	Apple	2500	1200	19-01-2023
6	129845	Nestle	2000	200	20-01-2023
4	174973	Wipro	1000	10000	20-01-2023
3	453647	Axis Bank	700	45	20-01-2023
2	768798	Apple	2500	1000	22-01-2023
4	174973	Wipro	1000	600	22-01-2023
4	174973	Wipro	1000	500	22-01-2023

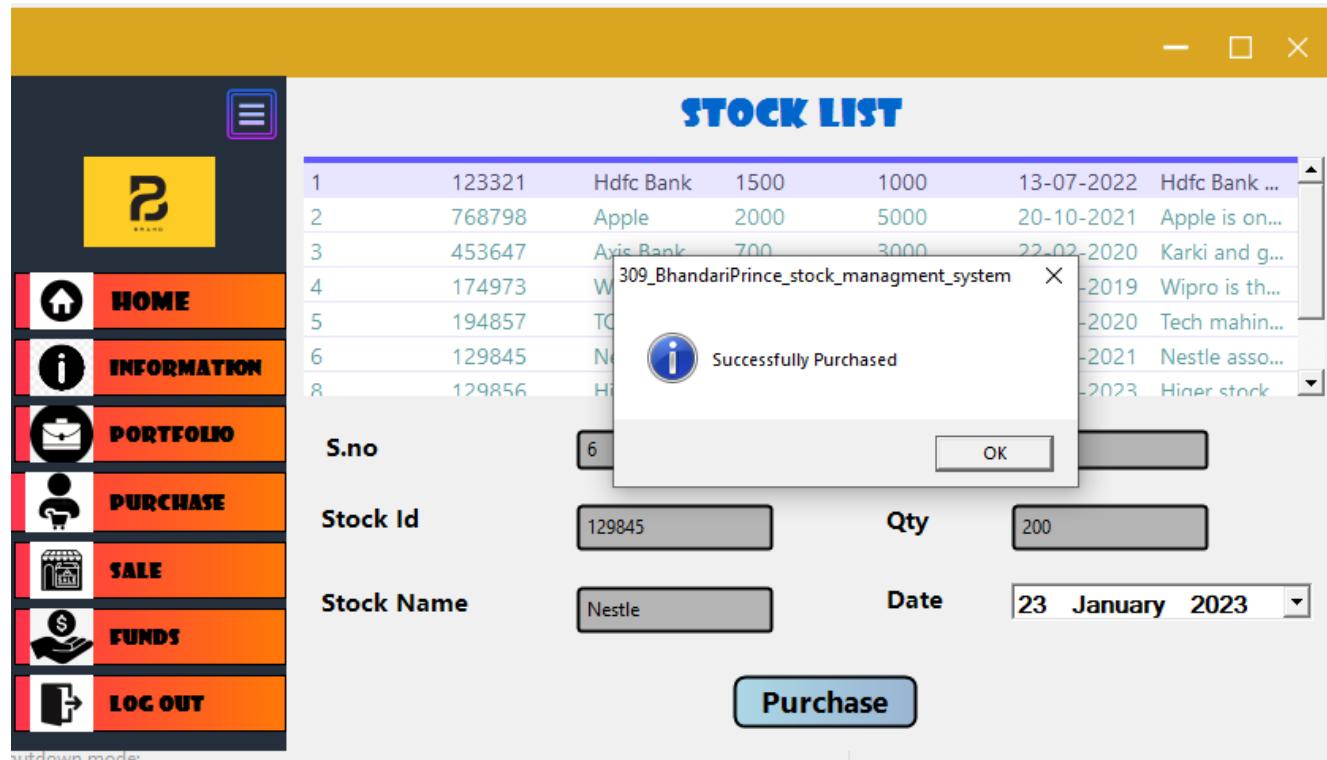
**Description :-** This is an Portfolio page by this page you can gave Information of Purchase Share.

```

| Private Sub Home_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
|     cn = New OleDbConnection("Provider=Microsoft.ACE.OLEDB.12.0;Data Source=C:\Users\Prince\Documents\Visual Studio 2010\Bhanda...
|     If cn.State = ConnectionState.Closed Then
|         cn.Open()
|     End If
|
|     da = New OleDbDataAdapter("select * from purch", cn)
|     ds = New DataSet()
|
|     da.Fill(ds)
|    .GunaDataGridView1.DataSource = ds.Tables(0)
|
|
|     cn.Close()
End Sub

```

## Purchase



**Description :-** This is an Purchase page by this page you can Purchase the Share.

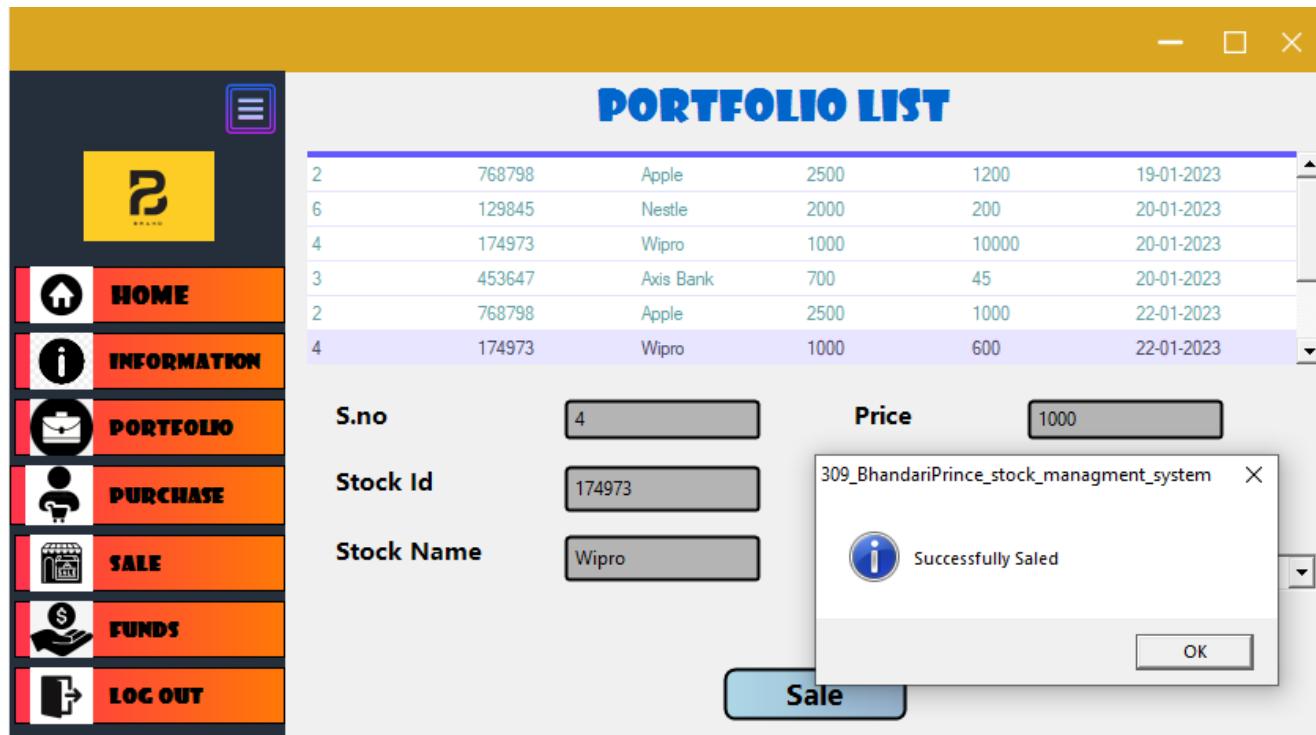
```

Dim x As Integer
Private Sub GunaGradientButton8_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaGradientButton8.Click
    x = GunaDataGridView1.CurrentRow.Cells(4).Value

    If cn.State = ConnectionState.Closed Then
        cn.Open()
    End If
    If GunaTextBox1.Text = "" Then
        MsgBox("Select The Share", MsgBoxStyle.OkCancel)
    ElseIf GunaTextBox5.Text = "" Then
        MsgBox("Enter Quantity", MsgBoxStyle.OkCancel)
    ElseIf x < GunaTextBox5.Text Then
        MsgBox("Quantity, Must Be Less Than Total Quantity", MsgBoxStyle.Exclamation)
    Else
        MsgBox("Successfully Purchased", MsgBoxStyle.Information)
        cmd = New OleDbCommand("insert into purch values ('" + GunaTextBox1.Text + "','" + GunaTextBox2.Text + "','" + GunaTextBox3.Text + "','" + GunaTextBox4.Text + "','" + GunaTextBox5.Text + "')")
        cmd.ExecuteNonQuery()
        GunaTextBox1.Clear()
        GunaTextBox2.Clear()
        GunaTextBox3.Clear()
        GunaTextBox4.Clear()
        GunaTextBox5.Clear()
    End If

```

## Sale



The screenshot shows the Stock Management System interface. On the left is a vertical navigation menu with icons and labels: HOME, INFORMATION, PORTFOLIO, PURCHASE, SALE, FUNDS, and LOG OUT. The PORTFOLIO button is highlighted.

The main area displays a "PORTFOLIO LIST" table with the following data:

2	768798	Apple	2500	1200	19-01-2023
6	129845	Nestle	2000	200	20-01-2023
4	174973	Wipro	1000	10000	20-01-2023
3	453647	Axis Bank	700	45	20-01-2023
2	768798	Apple	2500	1000	22-01-2023
4	174973	Wipro	1000	600	22-01-2023

Below the table, there are input fields for "S.no" (4), "Price" (1000), "Stock Id" (174973), and "Stock Name" (Wipro). A "Sale" button is located at the bottom right of these fields.

A modal dialog box is open, displaying the message "Successfully Saled" with an information icon. The dialog has an "OK" button at the bottom right.

**Description :-** This is an Sale page by this page you can Sale the Share.

```
[] Private Sub GunaGradientButton8_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaGradientButton8.Click
    If cn.State = ConnectionState.Closed Then
        cn.Open()
    End If

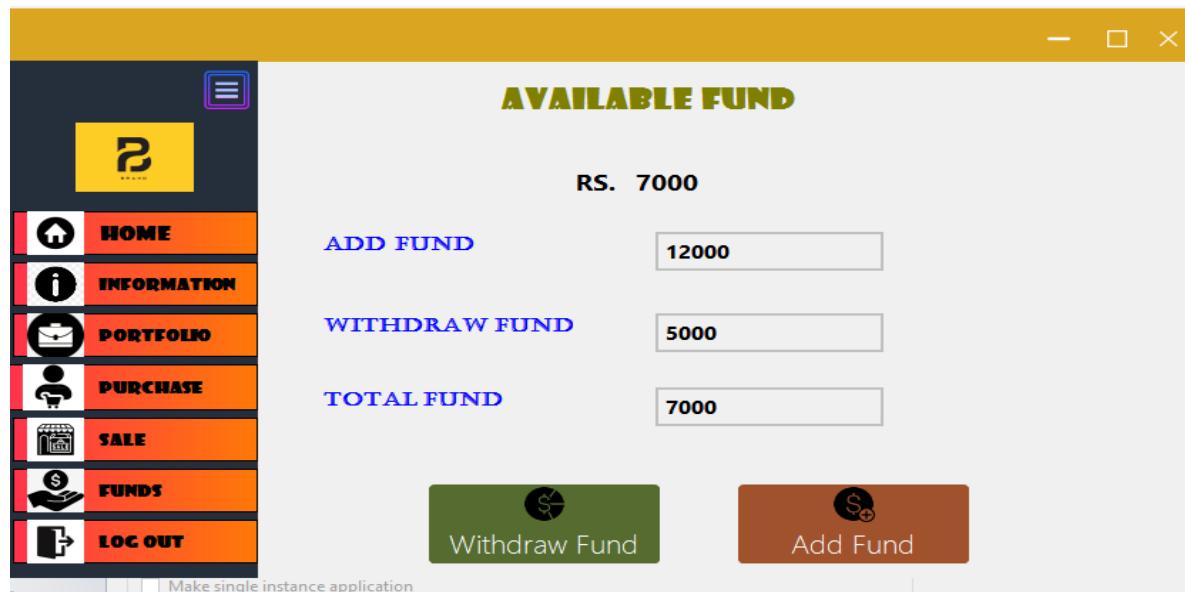
    If GunaTextBox1.Text = "" Then
        MsgBox("Select The Sher", MsgBoxStyle.OkCancel)
    Else
        MsgBox("Successfully Saled", MsgBoxStyle.Information)

        Dim cmd As OleDbCommand
        cmd = New OleDbCommand("delete from purch where Sno=" + GunaTextBox1.Text + "", cn)
        cmd.ExecuteNonQuery()
        cn.Close()

        GunaTextBox1.Clear()
        GunaTextBox2.Clear()
        GunaTextBox3.Clear()
        GunaTextBox4.Clear()
        GunaTextBox5.Clear()

        data_load()
    End If
A
```

## Fund



**Description :-** This is an Fund page by this page you can Fund Calculation.

```

Dim a1 As Integer
Private Sub GunaTileButton2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles GunaTileButton2.Click
    If GunaTextBox2.Text = "" Then
        MsgBox("Enter Amount", MsgBoxStyle.Exclamation)
    Else
        a1 = GunaTextBox2.Text
        If a1 < GunaTextBox1.Text Then
            GunaTextBox3.Text = GunaTextBox1.Text - GunaTextBox2.Text
            GunaTextBox5.Text = GunaTextBox1.Text - GunaTextBox2.Text
        Else
            MsgBox("Invalid Amount", MsgBoxStyle.Exclamation)
            GunaTextBox2.Clear()
        End If
    End If
End Sub

```

## 4.1 Unit Testing

- A unit is the smallest testable part of software. It usually has one or a few inputs and usually a single output.
- In procedural programming a unit may be an individual program, function, procedure, etc.
- In object-oriented programming, the smallest unit is a method, which may belong to a base/super class, abstract class or derived/child class.
- Some treat a module of an application as a unit. This is to be discouraged as there will probably be many individual units within that module.
- Unit testing is the first level of testing and is performed prior to Integration Testing.
- Unit Testing is normally performed by software developers themselves or their peers. In rare cases it may also be performed by independent software testers
- **Unit Testing** is a software testing technique by means of which individual units of software i.e. group of computer program modules, usage procedures, and operating procedures are tested to determine whether they are suitable for use or not.
- It is a testing method using which every independent module is tested to determine if there is an issue by the developer himself.

- It is correlated with the functional correctness of the independent modules.
  - Unit Testing is defined as a type of software testing where individual components of a software are tested. Unit Testing of the software product is carried out during the development of an application.
  - An individual component may be either an individual function or a procedure. Unit Testing is typically performed by the developer.

## **Test Cases:-**

<b>Name</b>	<b>User Login</b>
<b>Description</b>	This test case will check whether User Name and password is valid or not. If not then it will not allow the user will login.
<b>Input Data</b>	<ul style="list-style-type: none"> <li>✓ Valid User Name and Password which is already define.</li> <li>✓ Define Blank User Name and valid Password.</li> <li>✓ Valid User Name and Blank Password.</li> <li>✓ Valid User Name but Wrong Password.</li> <li>✓ Wrong Username and Valid Password.</li> <li>✓ Wrong User Name and Password.</li> </ul>
<b>Output</b>	<ul style="list-style-type: none"> <li>✓ System allows Login.</li> <li>✗ User Name Must be required.</li> <li>✗ Password must be required.</li> <li>✗ System prompt error that Admin is not valid.</li> <li>✗ System prompt error that Enter User Name and password.</li> </ul>
<b>Actual Output</b>	System allows Login

<b>Name</b>	<b>Stock Information</b>
<b>Description</b>	This test case will check whether Stock Information is valid or not. If not then it will not allow the Purchase share.
<b>Input Data</b>	<ul style="list-style-type: none"> <li>✓ Valid Stock Name and Sno Valid all field</li> </ul>

	<p>record with particular data type.</p> <ul style="list-style-type: none"> <li>✓ Invalid all field record.</li> <li>✓ Blank Stock Sno valid all remaining details</li> <li>✓ Blank Stock Id valid all remaining details</li> <li>.</li> <li>✓ Blank Stock Name description all remaining details.</li> <li>✓ Blank Stock Price valid all remaining details.</li> <li>✓ Blank Stock Quantity amount all remaining details.</li> <li>✓ Blank Stock Date all remaining details</li> </ul>
<b>Output</b>	<ul style="list-style-type: none"> <li>✓ System allows Purchased Share</li> <li>.</li> <li>✗ system Prompt error that Admin is not valid</li> <li>✗ Stock Sno must be required.</li> <li>✗ Stock Id must be required</li> <li>.</li> <li>✗ Stock Name must be required.</li> <li>✗ Stock Date must be required.</li> </ul>
<b>Actual Output</b>	System allows Purchased Share

<b>Name</b>	<b>Share Purchase</b>
<b>Description</b>	This test case will check weather Stock Information is valid or not. If not then it will not allow the Purchase share.

<b>Input Data</b>	<ul style="list-style-type: none"> <li>✓ Valid Share Name and Sno Valid all field record with particular data type.</li> <li>✓ Invalid all field record.</li> <li>✓ Blank Share Sno valid all remaining details</li> <li>✓ Blank Share Id valid all remaining details</li> <li>.</li> <li>✓ Blank Share Name description all remaining details.</li> <li>✓ Blank Share Price valid all remaining details.</li> <li>✓ Blank Share Quantity amount all remaining details.</li> <li>✓ Blank Share Date all remaining details</li> </ul>
<b>Output</b>	<ul style="list-style-type: none"> <li>✓ System allows Purchased Share</li> <li>.</li> <li>✗ system Prompt error that Admin is not valid</li> <li>✗ Share Sno must be required.</li> <li>✗ Share Id must be required</li> <li>.</li> <li>✗ Share Name must be required.</li> <li>✗ Share Date must be required.</li> </ul>
<b>Actual Output</b>	System allows Share Purchased

<b>Name</b>	<b>Share Sell</b>
<b>Description</b>	This test case will check weather Stock Information is valid or not. If not then it will not allow the Share Sell
<b>Input Data</b>	✓ Valid Share Name and Sno Valid all field

	record with particular data type. <input checked="" type="checkbox"/> Invalid all field record. <input checked="" type="checkbox"/> Blank Share Sno valid all remaining details <input checked="" type="checkbox"/> Blank Share Id valid all remaining details  <input checked="" type="checkbox"/> Blank Share Name description all remaining details. <input checked="" type="checkbox"/> Blank Share Price valid all remaining details. <input checked="" type="checkbox"/> Blank Share Quantity amount all remaining details. <input checked="" type="checkbox"/> Blank Share Date all remaining details
<b>Output</b>	<input checked="" type="checkbox"/> System allows Sell Share  <input checked="" type="checkbox"/> system Prompt error that Admin is not valid <input checked="" type="checkbox"/> Share Sno must be required. <input checked="" type="checkbox"/> Share Id must be required  <input checked="" type="checkbox"/> Share Name must be required. <input checked="" type="checkbox"/> Share Date must be required.
<b>Actual Output</b>	System allows Share Sale

## 4.2 Integration Testing

Link	Expected Page	Result of Page
<b>Register</b>	Register Page	Register page

<b>Login</b>	Login Page	Login Page
<b>Stock Information</b>	Add Stock Information And View Information Page.	Add Stock Information And View Information Page.
<b>Portfolio</b>	Show Purchased Share Page	Show Purchased Share Page
<b>Purchase</b>	Share Purchased Page	Share Purchased Page
<b>Sale</b>	Share Sale Page	Share Sale Page
<b>Funds</b>	Fund Calculation Page	Fund Calculation Page

### 4.3 System Testing

- System Testing is a level of the software testing where complete and integrated software is tested.

- **The purpose of this test is to evaluate the system's compliance with the specified requirements.**
- **Firefox browser, Internet explorer and chrome consider testing for environment operability of software.**
- **The process of testing an integrated system to verify that it meets specified requirements.**
- **System Testing includes testing of a fully integrated software system.**
- **System Testing performed after Integration Testing and before Acceptance Testing.**
- **The software is developed in units and then interfaced with other software and hardware to create a complete computer system.**
- **System testing is a series of different type of tests with the purpose to exercise and examine the full working of an integrated software computer system against requirements.**
- **Normally, independent Testers perform System Testing.**

- ◆ Web server - IIS/Apache
- ◆ Database – Microsoft Office Access
- ◆ OS – Windows
- ◆ Browser – Firefox/Internet Explorer/Chrome

- ◆ Microsoft Visual Studio version – version 10
- ◆ Purpose of this website is to make the work easier for customers.
- ◆ Automation of the system improves the efficiency level.
- ◆ It is a friendly graphical user interface when compared to the system that already exists.
- ◆ It give authenticate access to the authorized users depending upon their user type.
- ◆ It effectively overcomes the delay in communications.
- ◆ The System has adequate scope for modification in future if it is necessary.

## **Conclusion**

**You can make a lot of money investing in stocks or trading in the stock market, but it is not something for the new investors. Care must be taken when it comes to stock investments. The investor must have a solid**

**understanding of stocks and how they trade in the market or risk losing money in a volatile type of investment.**

**Let's review what we've learned in this tutorial:**

- Having stock in a company means you are an owner. How many shares of stock you have determines the extent of that ownership. As part owner, you receive dividends and have voting rights.
- A stock represents equity, while a bonds is a debt. Bonds are low-risk investment vehicles with guaranteed returns, while stocks involves more risk. This is why stocks have a higher rate of return compared to bonds.
- In investing, the riskier the investment the bigger the chance of making more money. Investing in stocks can make you lots of money if you invest in the right company. However, you can lose all of it too.
- There are two main types of stocks: common and preferred. Stocks can be further classified into different classes depending on the company.
- The stock market is a place where people go to trade stocks. Two of the most important stock exchanges in the United States are the NYSE and Nasdaq..
- Purchase of stocks are commonly done through a brokerage. You can also get a dividend reinvestment plan (DRIP).
- Stocks are volatile. Prices change according to supply and demand. Many people have different opinions on why stock prices move the way they do. One of the most important factors that influence prices is earnings.
- Learning how to read stock tables or a stock quote is a must if you are planning to be a serious investor in stocks. It is not hard to read a stock quote once you know what the different terms and symbols stand for.

- Always remember the old stock market saying: “Bulls make money, bears make money, but pigs get slaughtered!”. This will perhaps save you many times from losing on your investment.

## Bibliography & Reference

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