



SOFTWARE DESIGN DOCUMENT



eMart



Session: 2020

Submitted By

Muhammad Talha	2020-SE-01
Qamar Ul Zaman	2020-SE-04

Submitted To

Mr. Zeeshan Ramzan

Department of Computer Science, New Campus
University of Engineering and Technology
Lahore, Pakistan

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Chapter 1: Introduction

Project Description:

We will be designing a simple **Online Shopping System**. The system will allow customer to go to the web page and do online shopping and system will allow admin to update whole web pages. Customer can see the products, products details, deals, register his/her account in system to buy products and login his account whereas Admin can show the products, products details, different deals, allow customer to register his/her account in system to buy products and login to his account.

Vision:

The vision of this project is to provide online facilities to customers to buy different products from home.

Scope:

The scope of this project is to facilitate the customers with online services by creating account on this system. Customers can view different available products in the mart. They can also view the product details, available offers and buy products if they have an account.

Chapter 2: Requirements

Functional requirements:

- Our system shall allow the admin to see Account's login form and enter his Account's username and password to sign in to this system.
- Our system shall allow the customers to see Account's login form and enter his Account's username and password to sign in to this system.
- Our system shall allow the admin to see Sign-up form and enter his/her required information to make an account in this system.
- Our system shall allow the customers to see Sign-up form and enter his/her required information to make an account in this system.
- Our system shall allow the admin to show the company logo to the customers and change or update it anytime.
- Our system shall allow the customers to see the logo and go to home page of this system when they click the logo.
- Our system shall allow admin to show different products currently available in the mart on home page.
- Our system shall allow the customers to see the products currently available in the shop on home page.
- Our system shall allow the admin to provide product details i.e., company name, price, expiry dates, etc.
- Our system shall allow the customers to see product details when they click on the product shown on home page.
- Our system shall allow the admin to change or update product details anytime.
- Our system shall allow the admin to show different deals currently available in the shop.
- Our system shall allow the customers to see available deals of the shop.
- Our system shall allow the customer to add the product to the watchlist.
- Our system shall allow the customer to add the product to the cart.
- Our system shall allow the customers to see the watchlist.
- Our system shall allow the customers to see the cart.
- Our system shall allow the customers to buy products.

Non-functional requirements:

- Responsive: Our system must be responsive from 1 to 3 seconds.
- Security: Our system must provide a functionality to of sign-in/log-in using which user can use this this software.
- Scalability: Our system must have a capability to scale as the number of users increase.
- Availability: Our system must be available 24/7 to every customer by using non-redundant power supply.
- Usability: Our system must be user friendly.
- Reliability: Our system must be reliable by performing its function respectably in a defined environment without failure.
- Manageability: Our system must be manageable by monitoring it to keep the system secure, and running smoothly.
- Maintainability: Our system must be maintainable by modifying to correct faults, improve performance, or adapt to a changed environment.
- Data integrity: Our system must maintain the accuracy and consistency of data through authentication by ongoing use of error checking and validation routines.
- Recoverability: Our system must be recoverable by verifying system's ability to recover from failures like software/hardware crashes, network failures etc.
- Capacity: Our system must be capable to deal with the amount of information or services that can be handled by the system.

Wireframes:

Sign-up

LOGO

Already member? [sign in](#)

Create an Account

first name last name

email

Password

Phone

create account

LOGO

Sign In

LOGO

[back](#)

HELLO
sign in to ebay or [create account](#)
Go to [eMart Admin](#)

LOGO

Home

LOGO

eMart

[Home](#) [Daily Deals](#) [Sign in](#) [register](#)

SLIDER

Products

LOGO

Product Details

Heading level 1

qth

▼

Buy it Now

LOGO

Daily Deals

LOGO

eMart

back

Home

Daily Deals

Show Orders

Products

LOGO

Admin Home

LOGO	eMart			Log Out
Home Daily Deals Show Orders				
SLIDER				
Products				
				
<input type="button" value="change"/>	<input type="button" value="change"/>	<input type="button" value="change"/>	<input type="button" value="change"/>	
LOGO				

Buy

LOGO	how do you like our checkout? Give feedback	
<div><div></div><div></div><div></div><div></div><div></div></div>		<div><div></div><div></div><div></div></div>
<div>Ship to</div> <div></div> <div></div> <div></div>		<div>Order total</div> <div><input type="button" value="buy"/></div>
LOGO		

About us



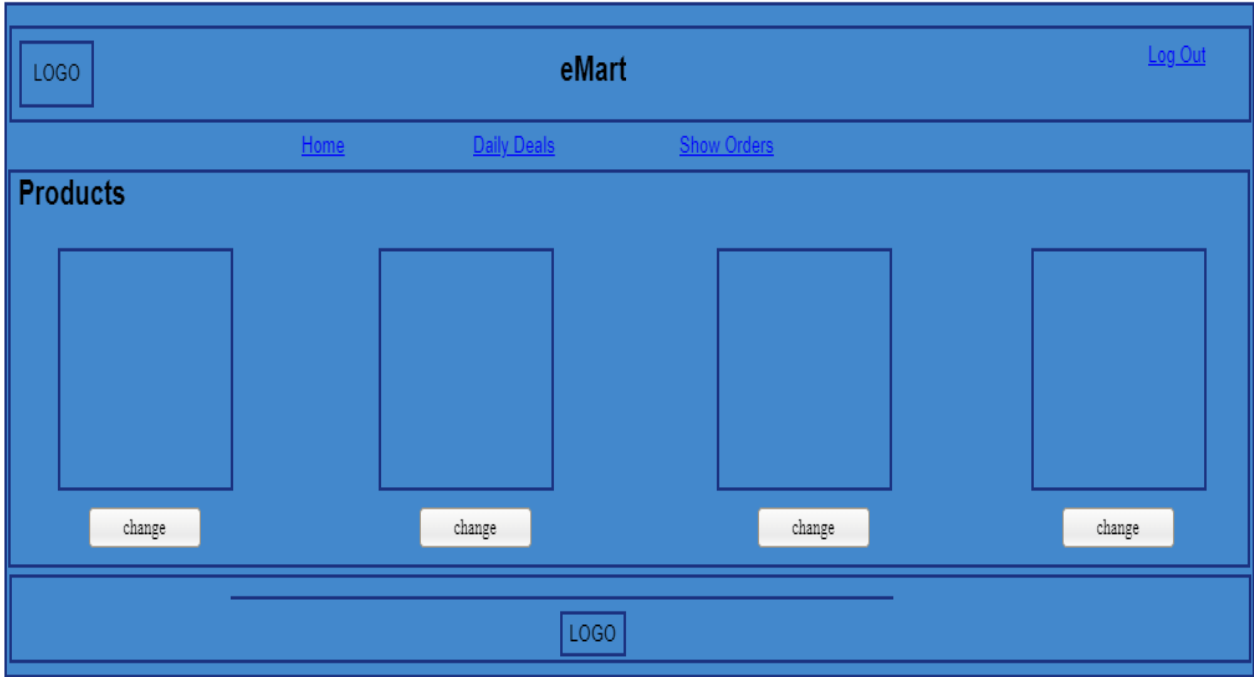
Admin About us



Show Order

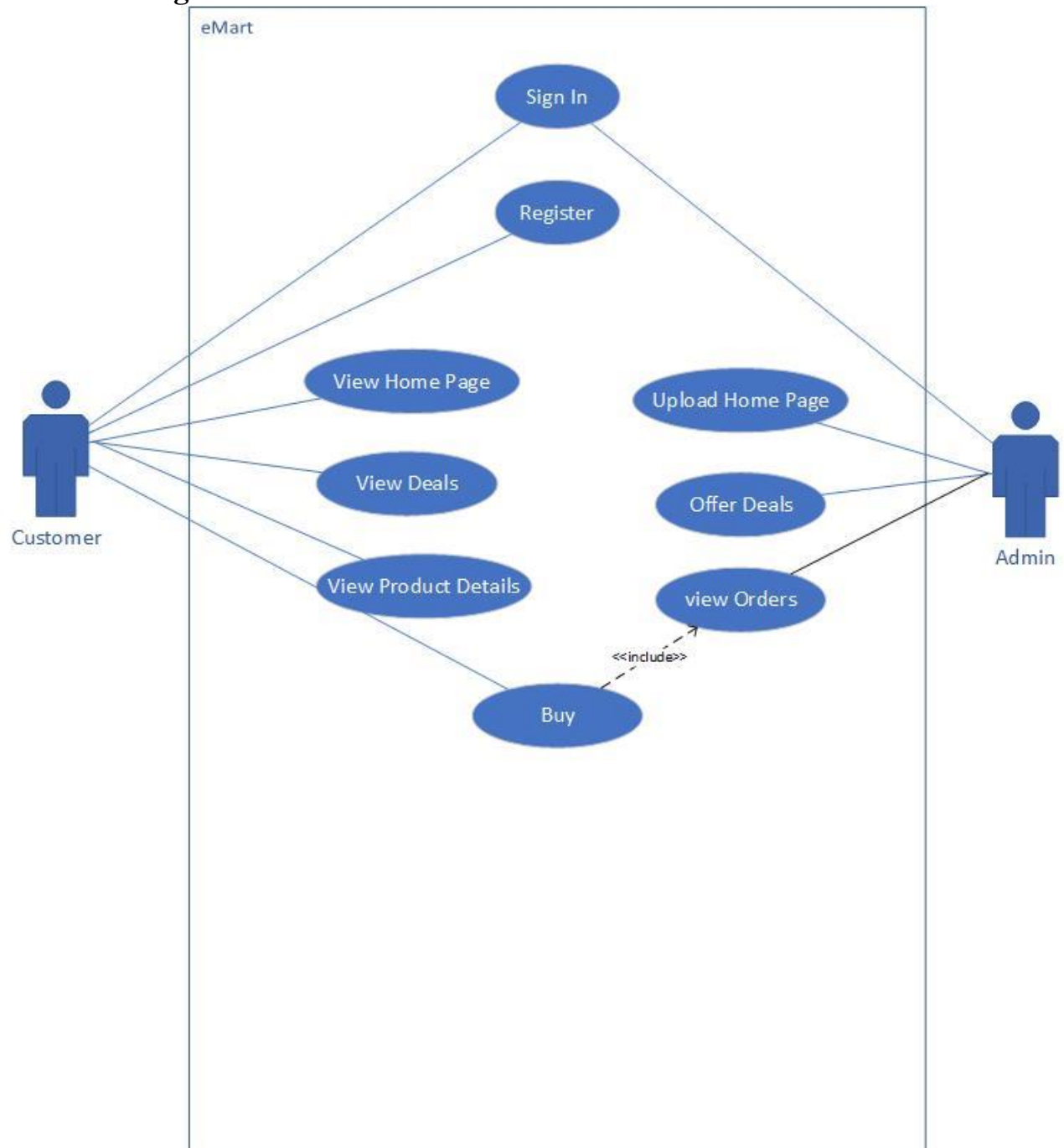


Admin Deals

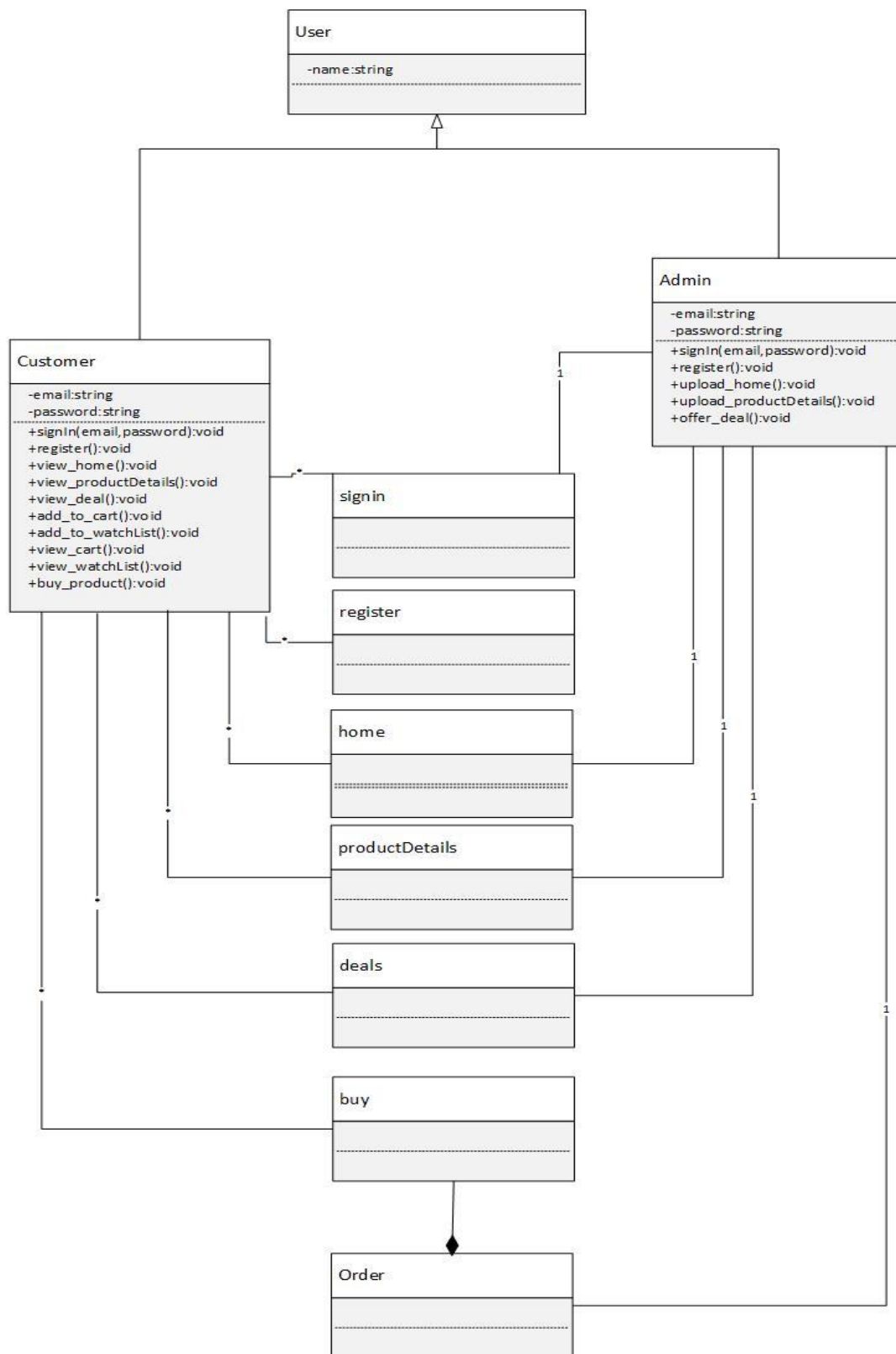


Chapter 3: Design

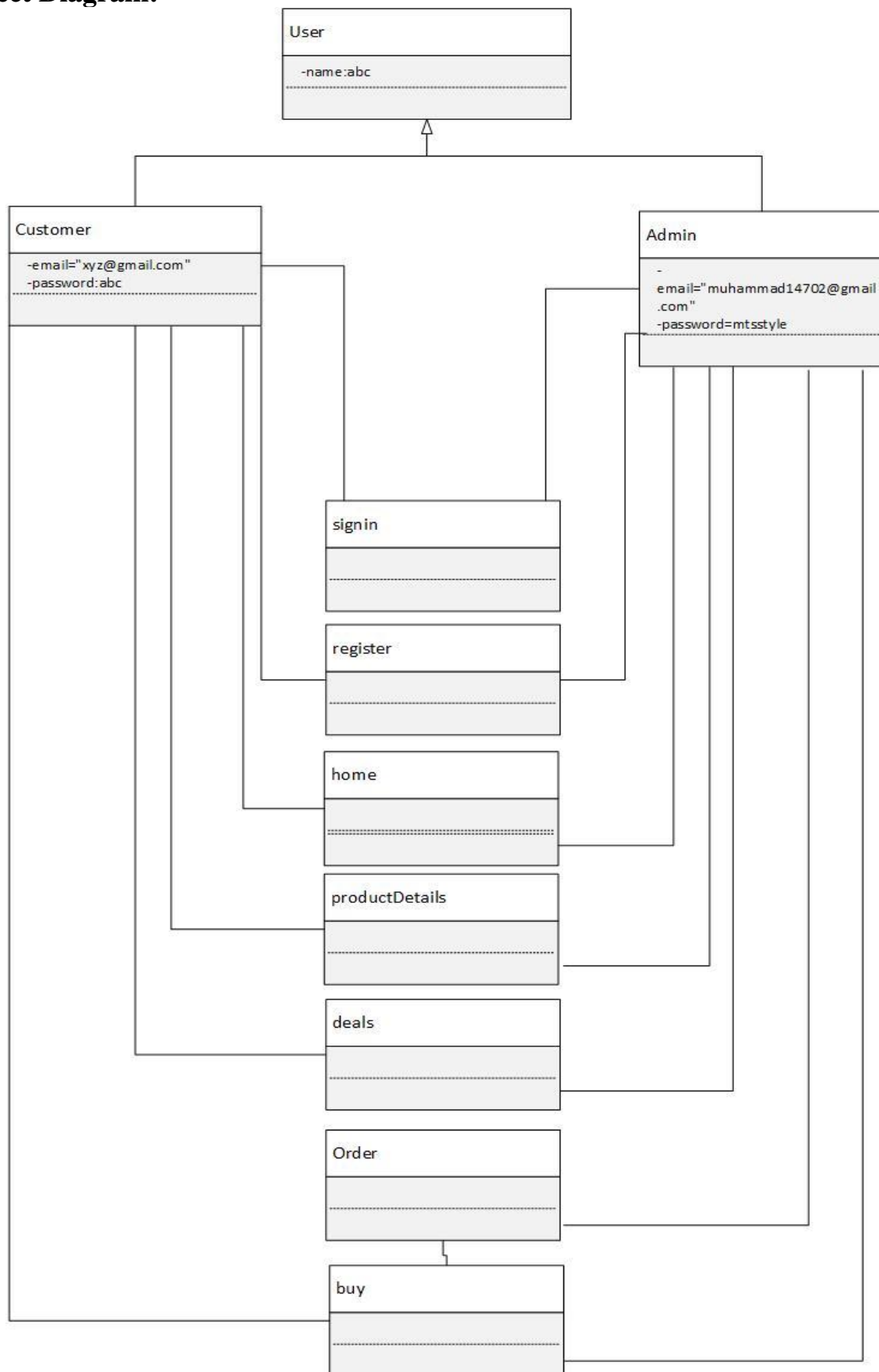
Use Case Diagram:



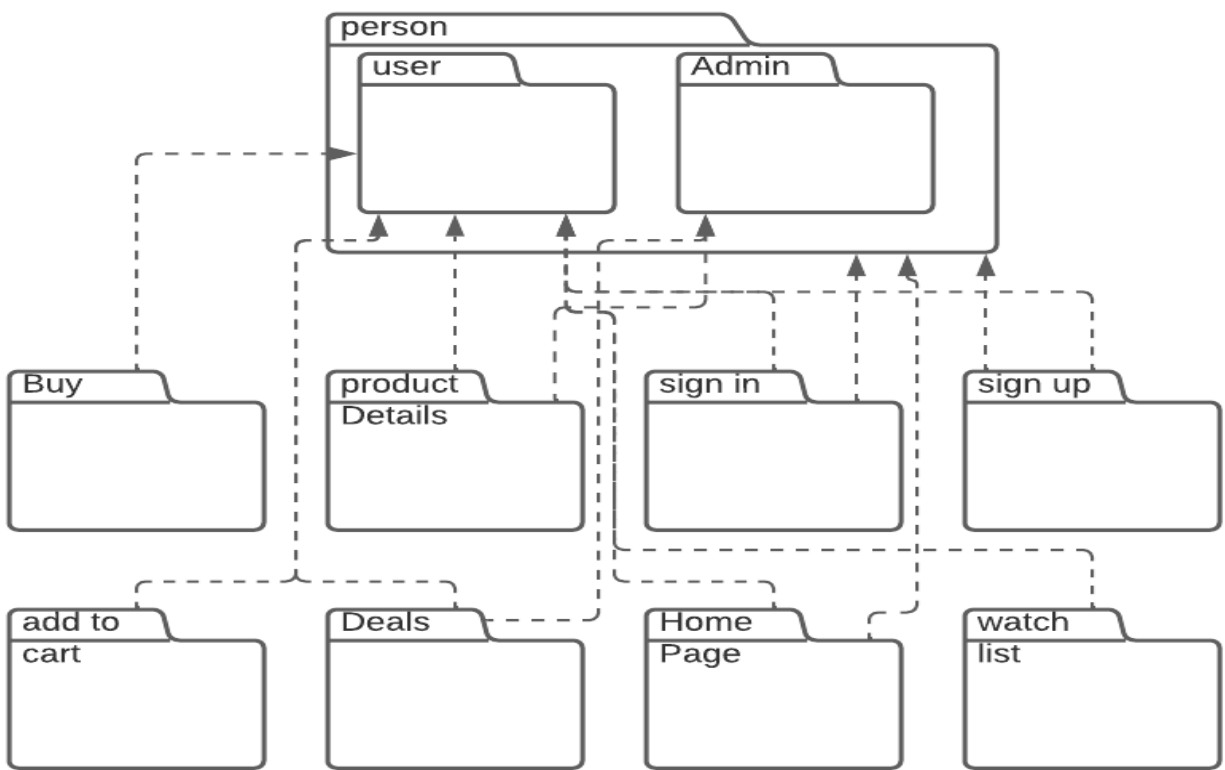
Class Diagram:



Object Diagram:

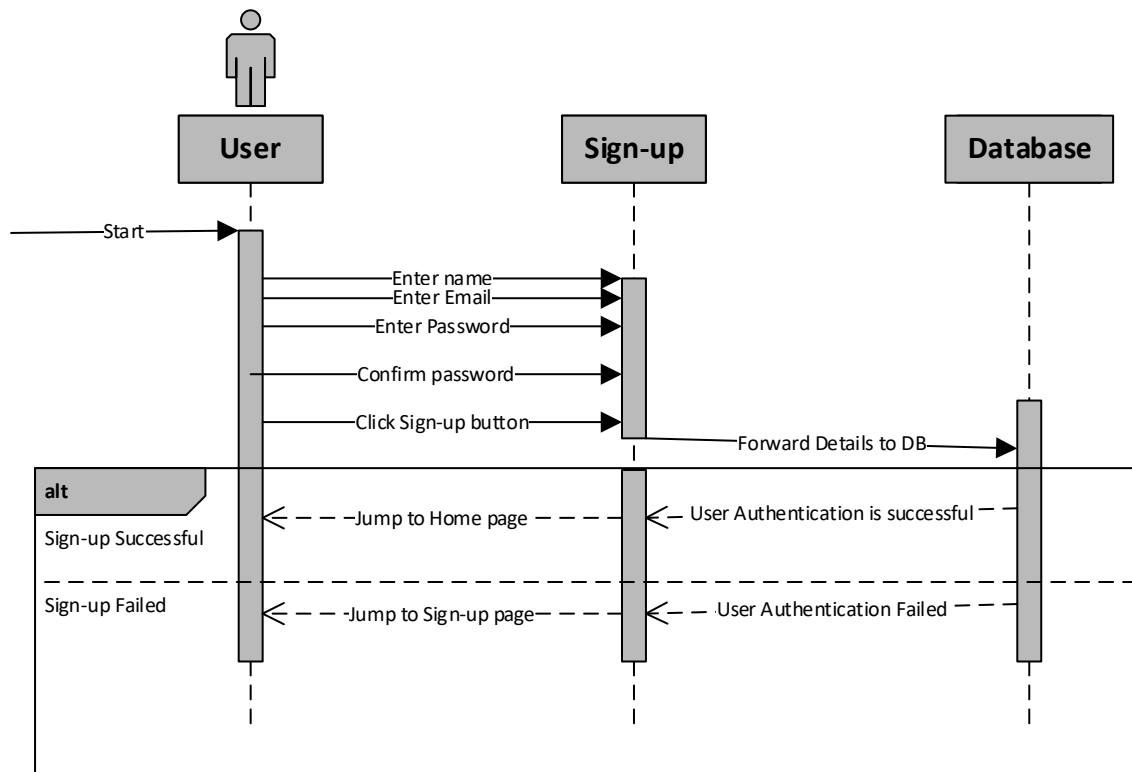


Package Diagram:

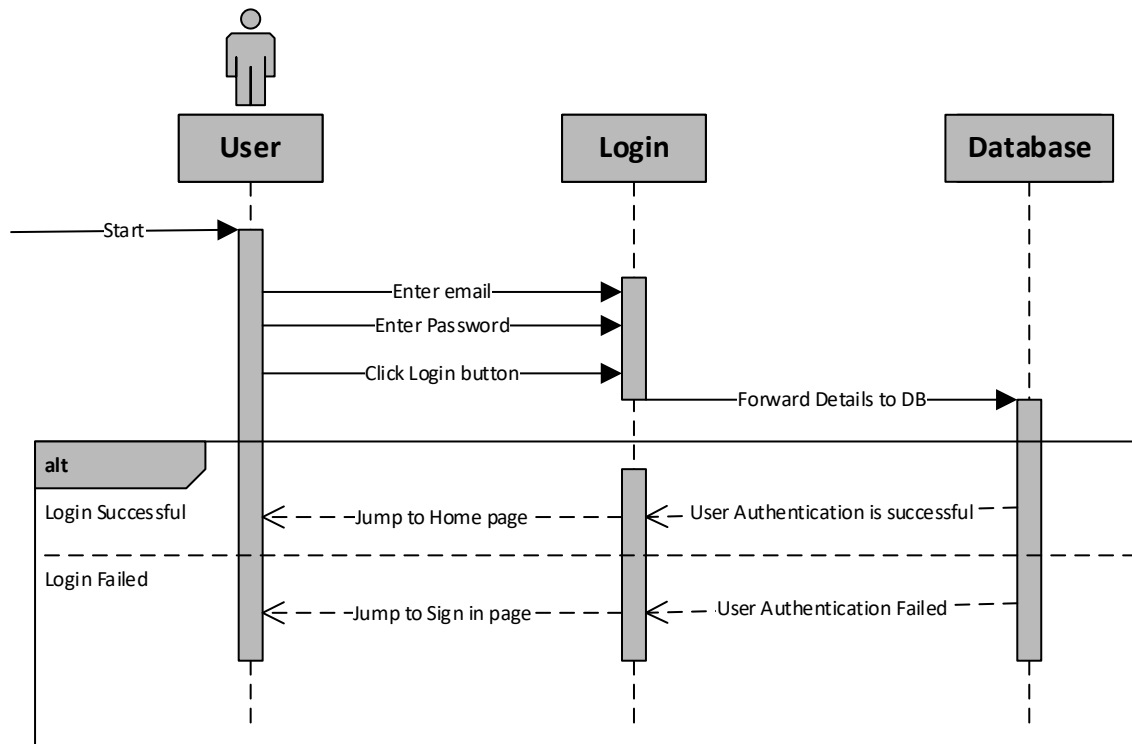


Sequence Diagrams:

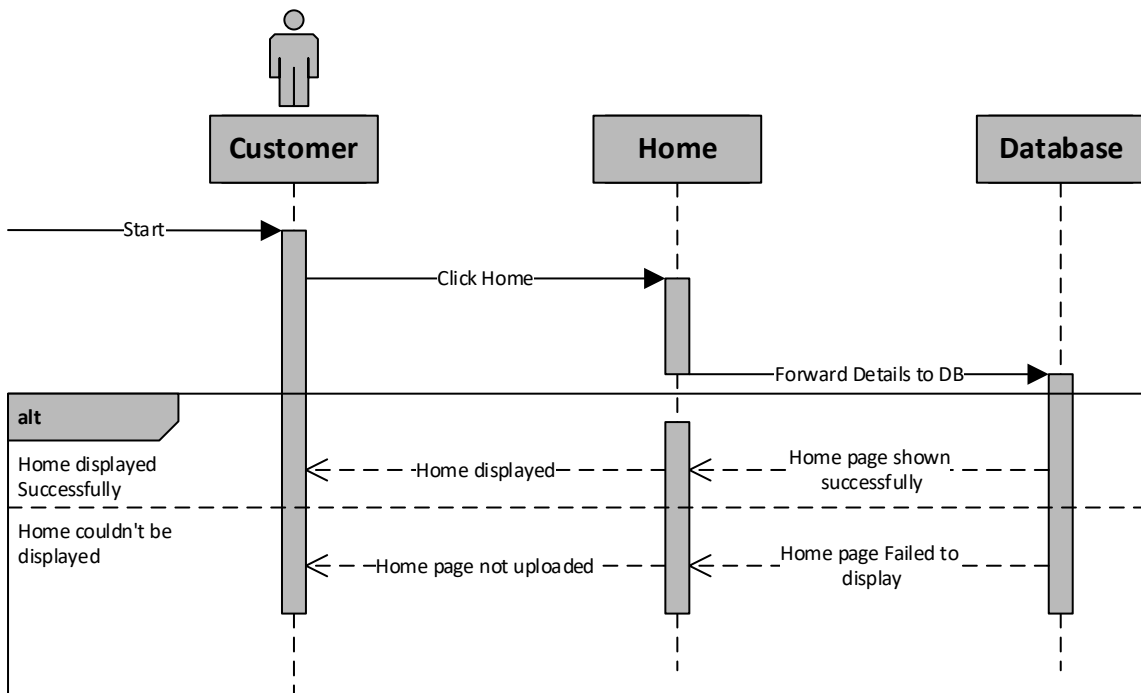
Sign-up



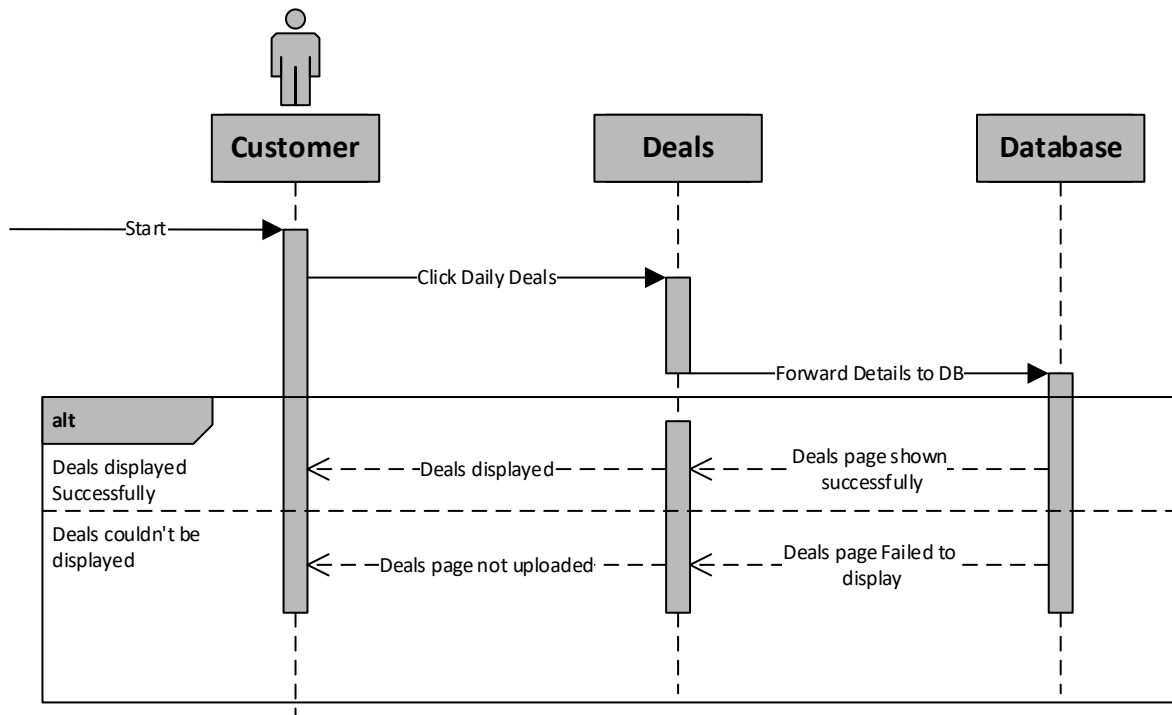
Login



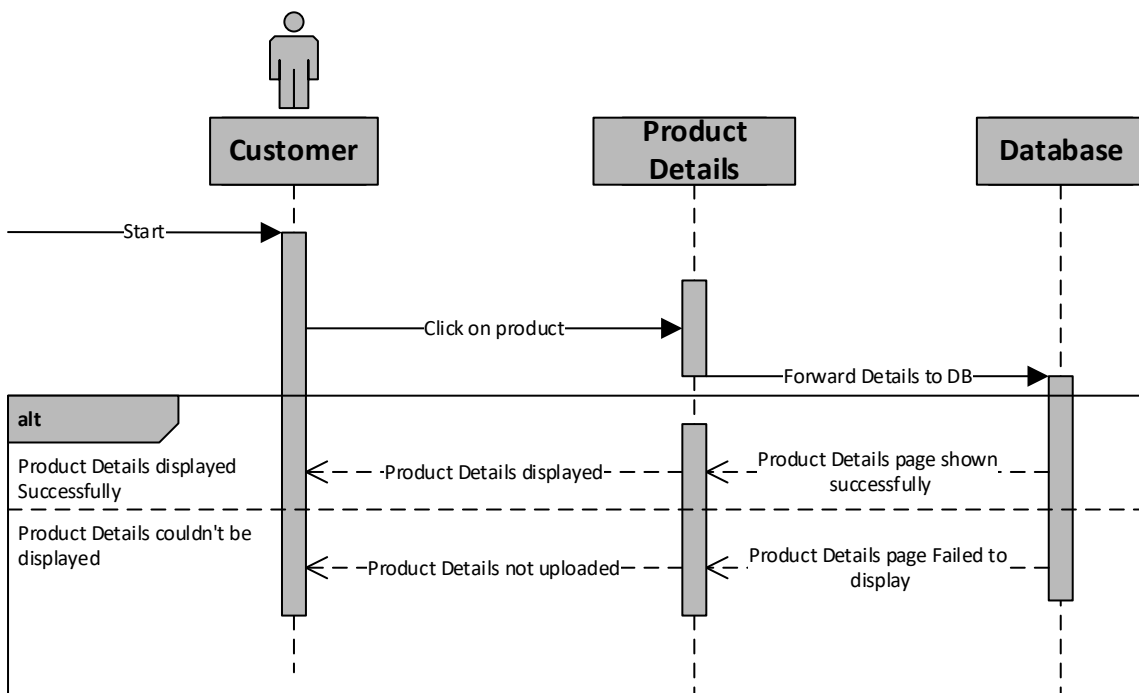
Home



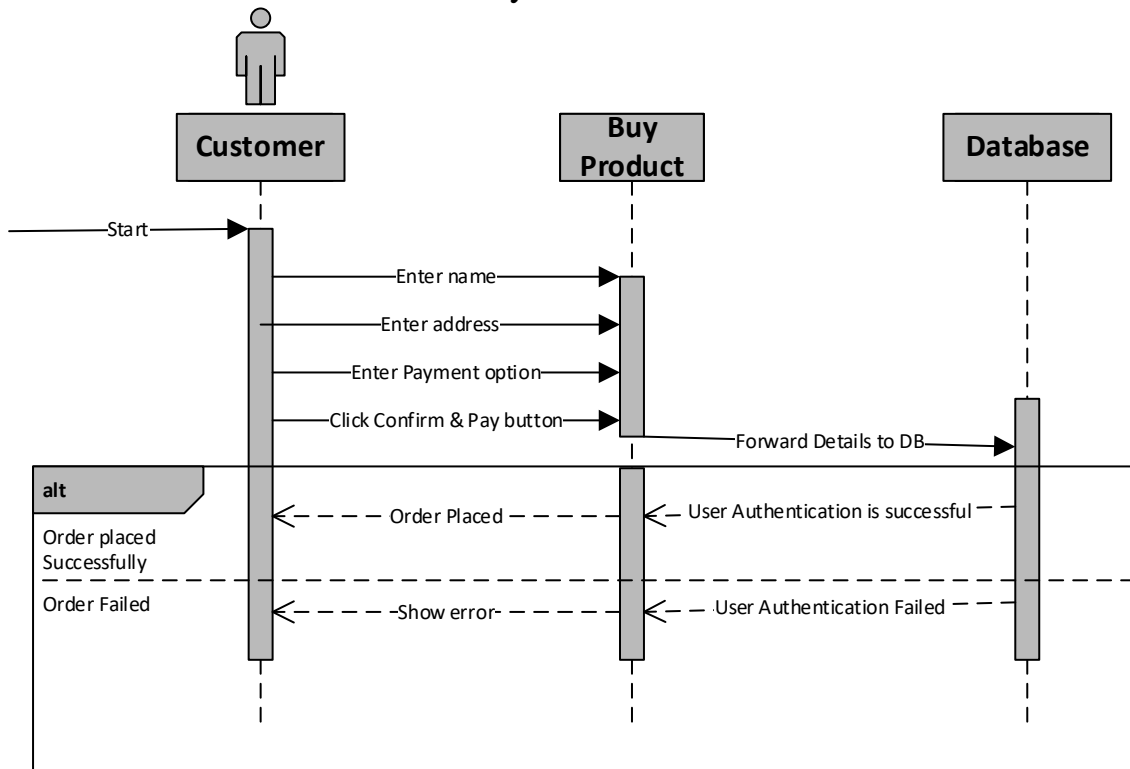
Deals



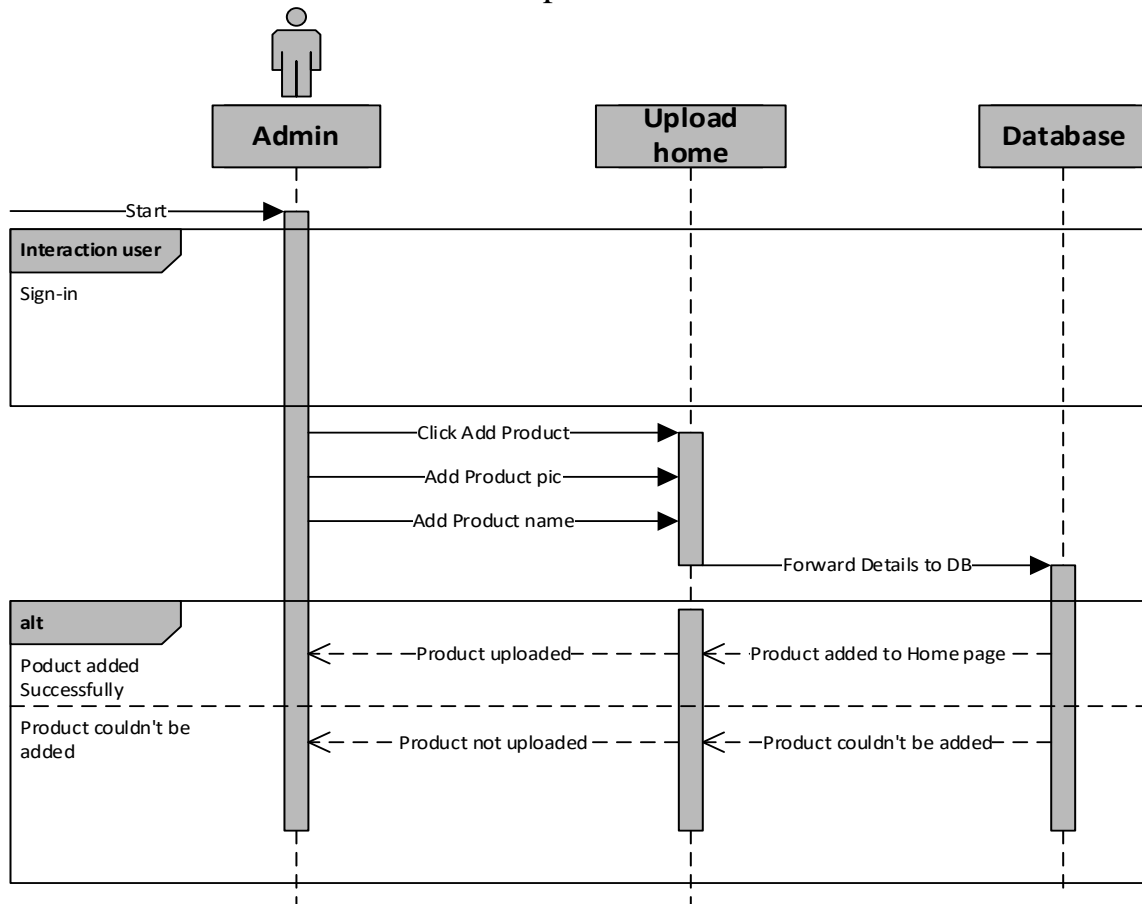
Product Details



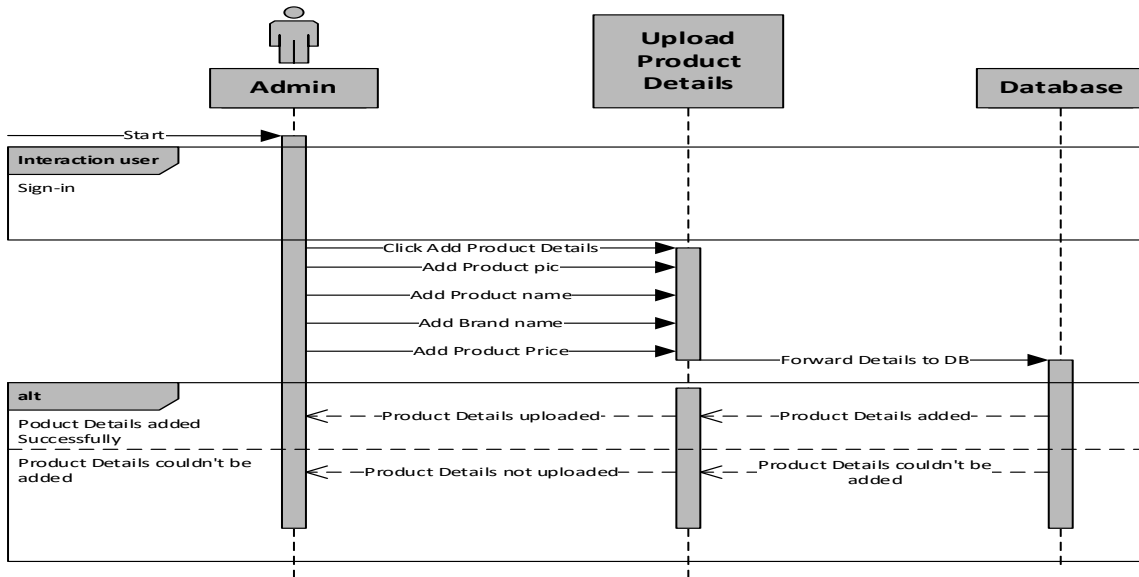
Buy Product



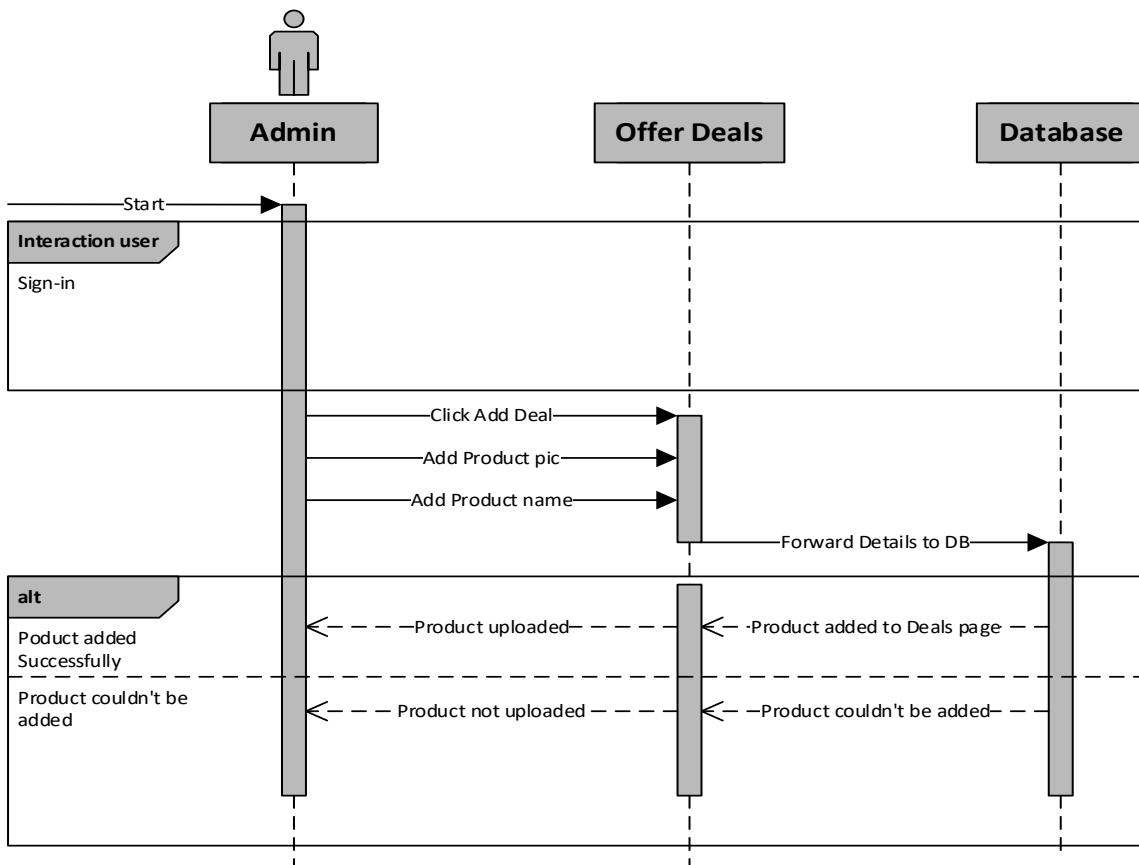
Upload Home



Upload Product Details

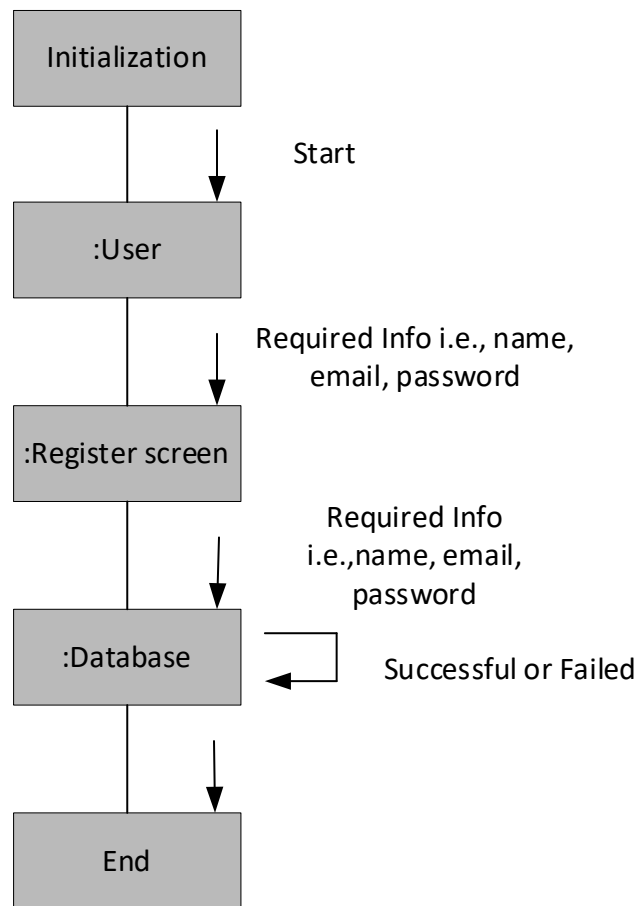


Offer Deals

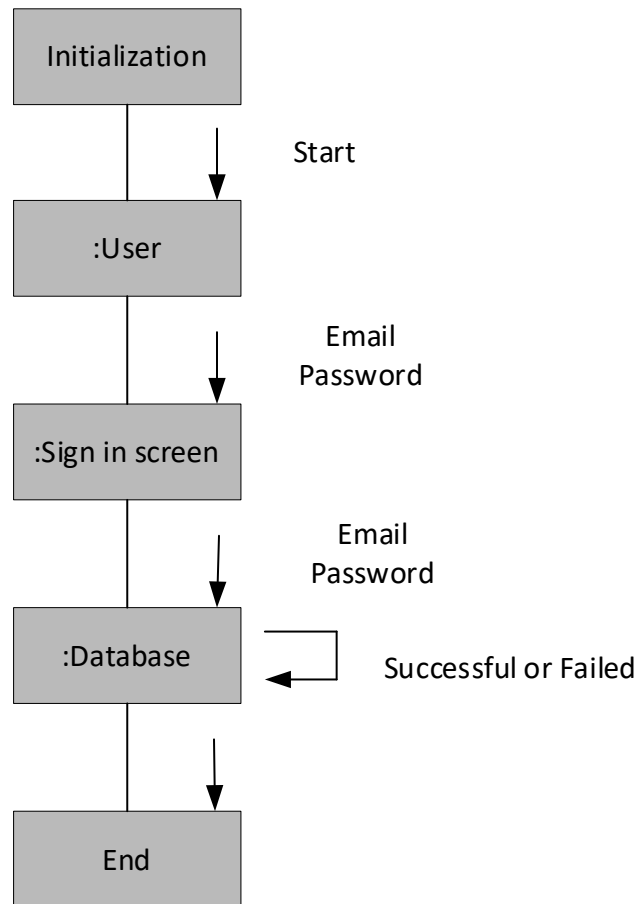


Collaboration Diagrams:

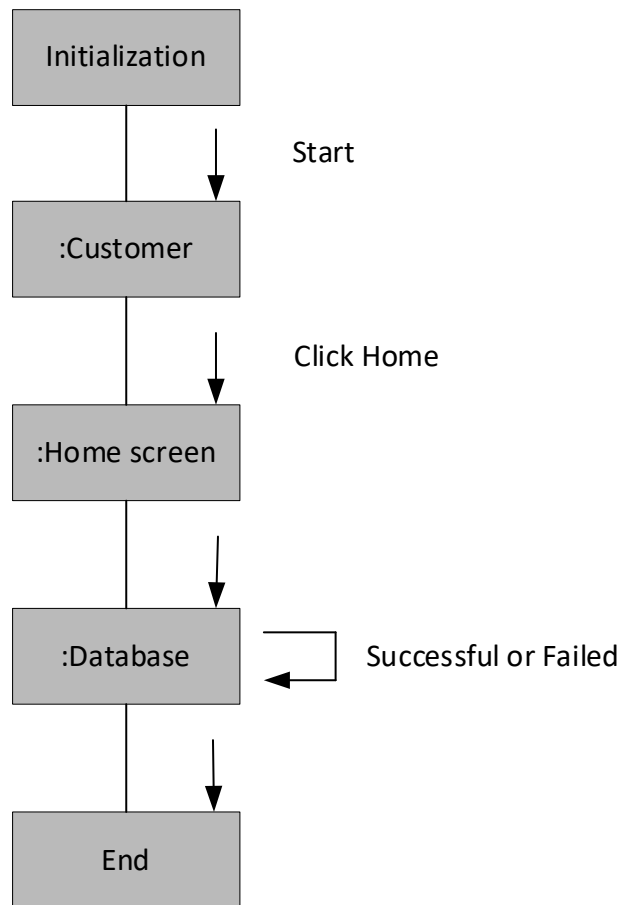
Register



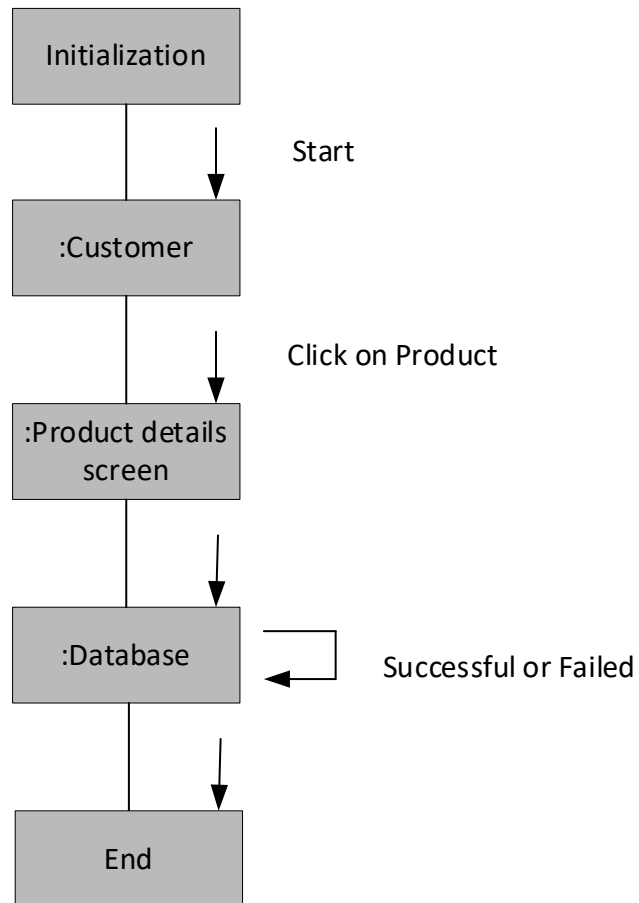
Login



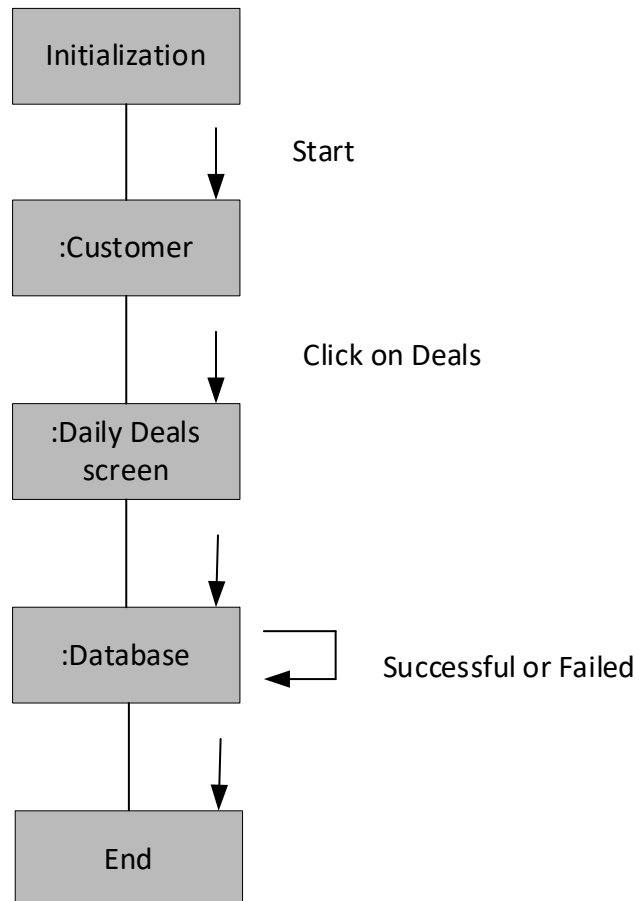
Home



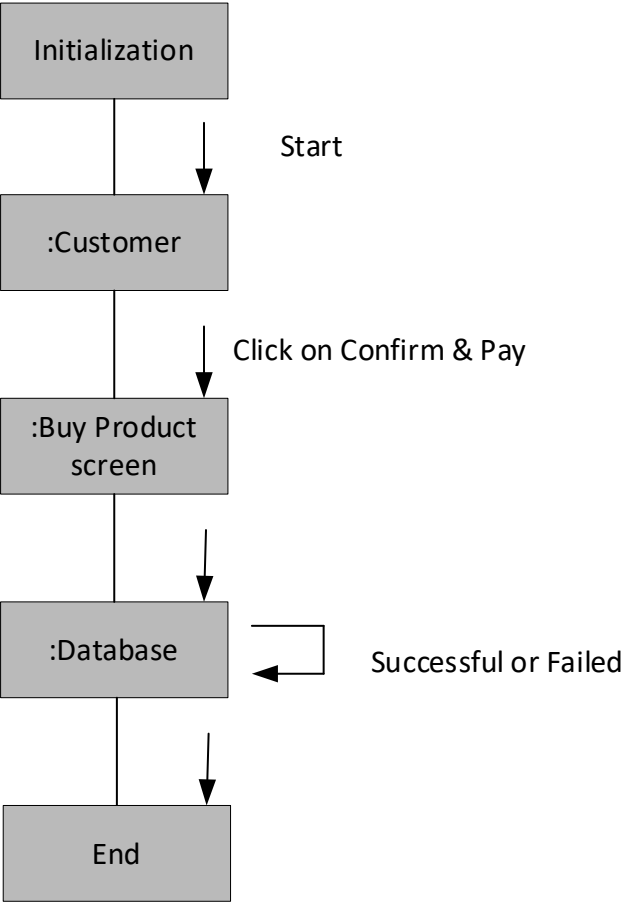
Product Details



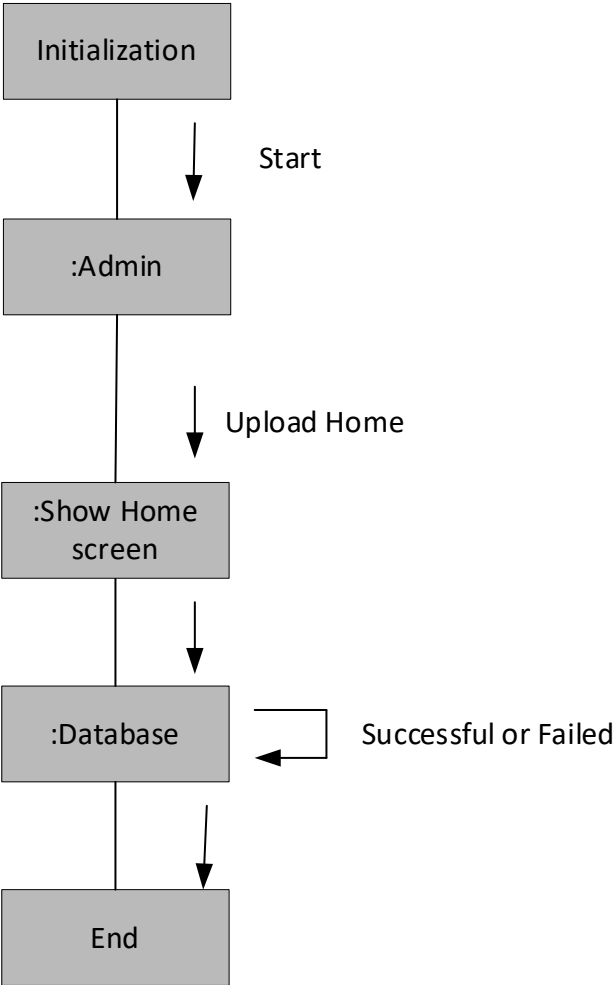
Deals



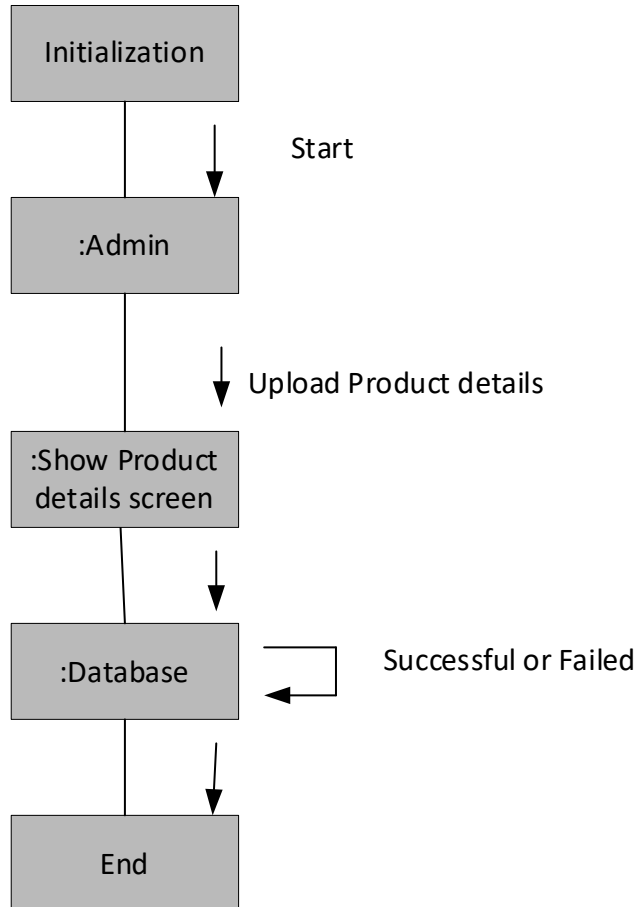
Buy Product



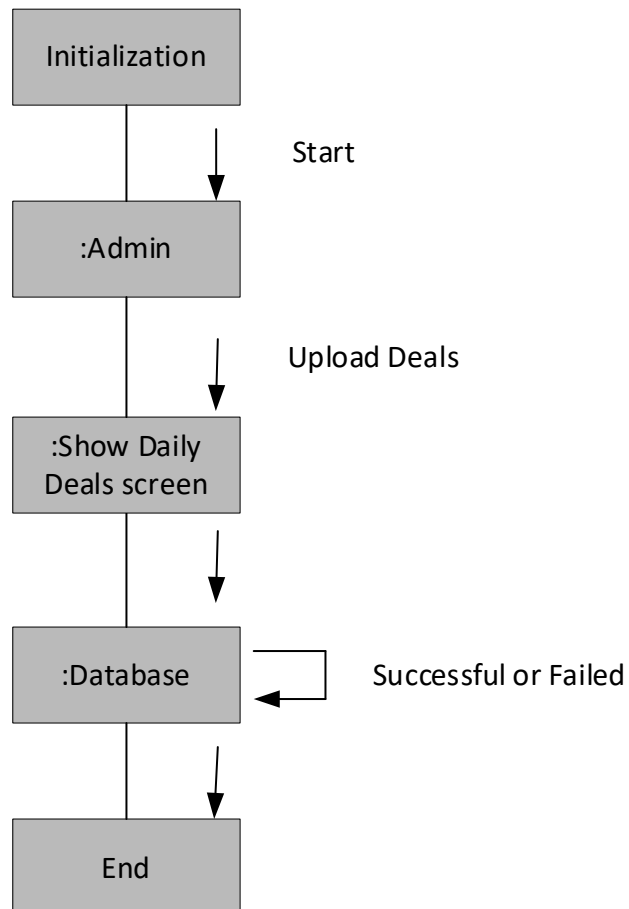
Upload Home



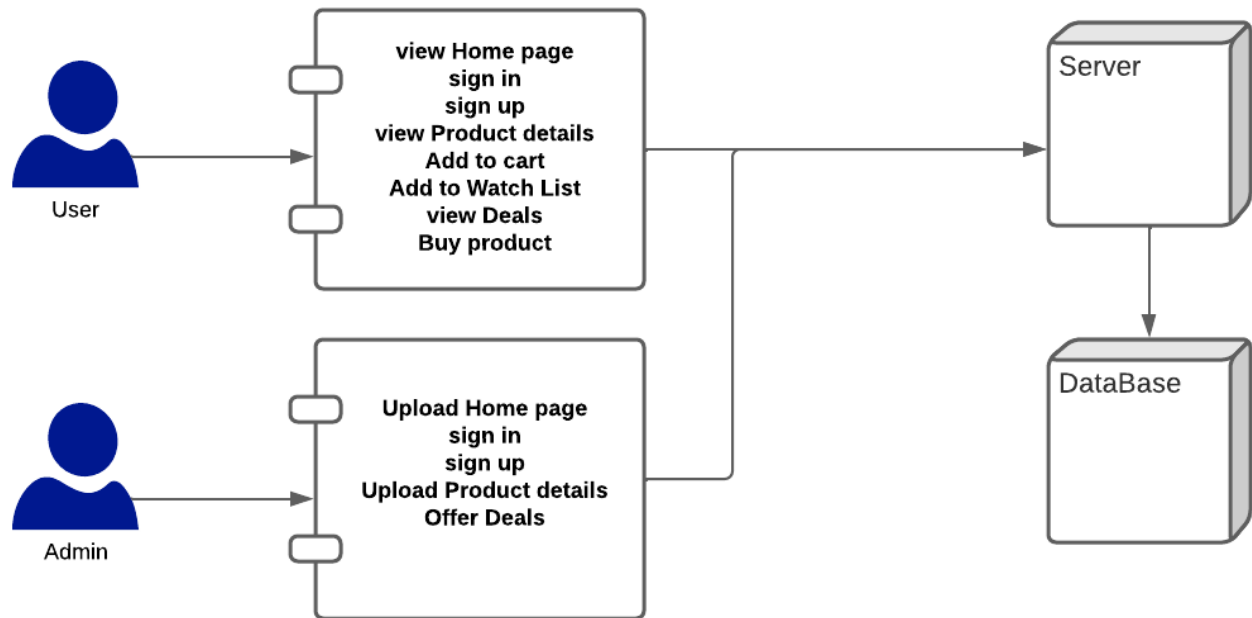
Upload Product Details



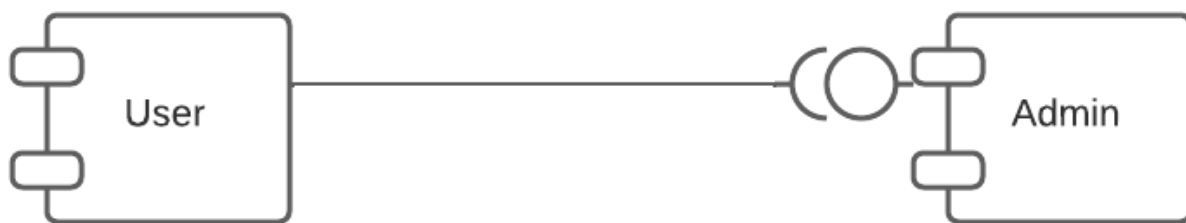
Upload Deals



Deployment Diagram:

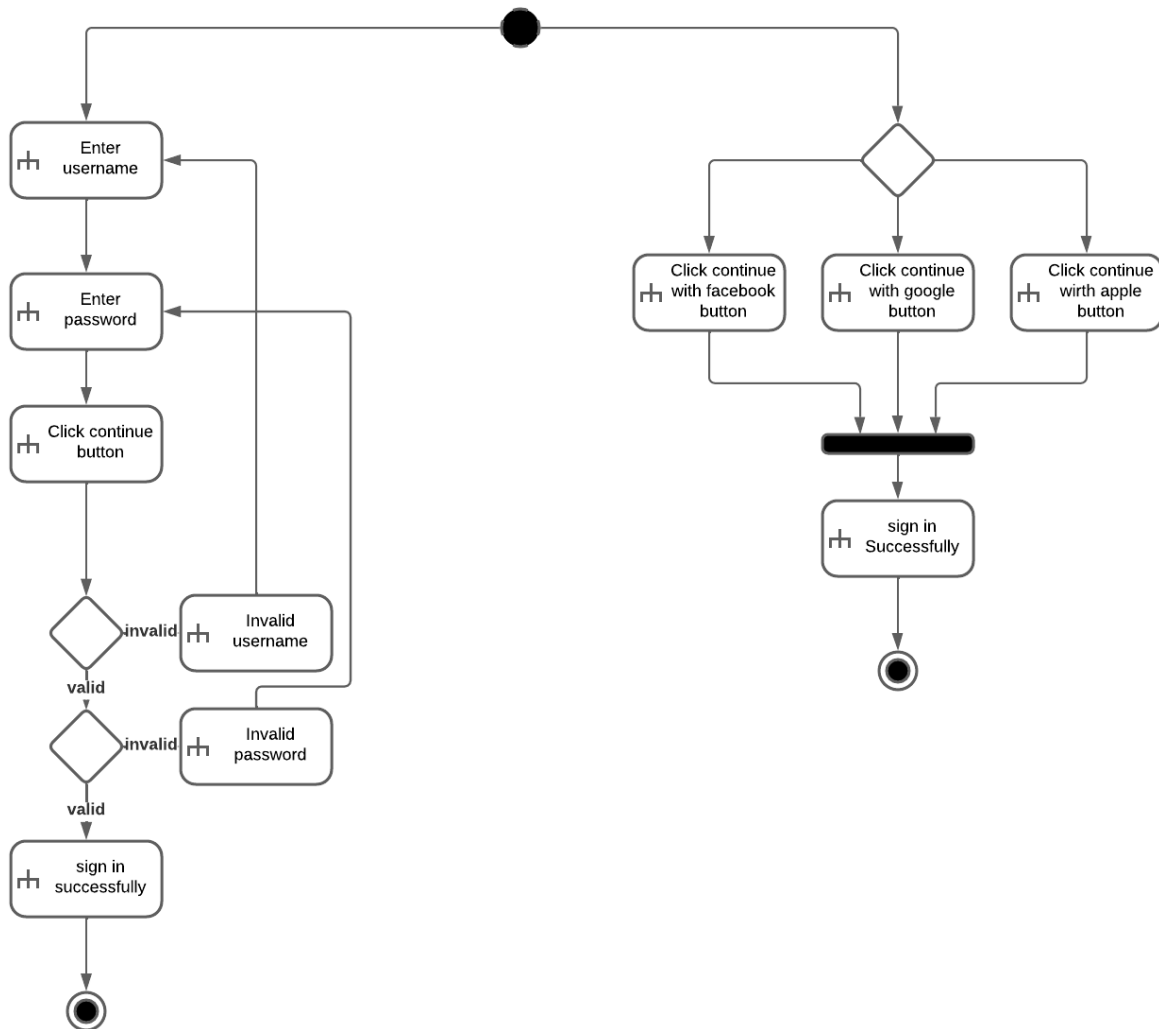


Component Diagram:

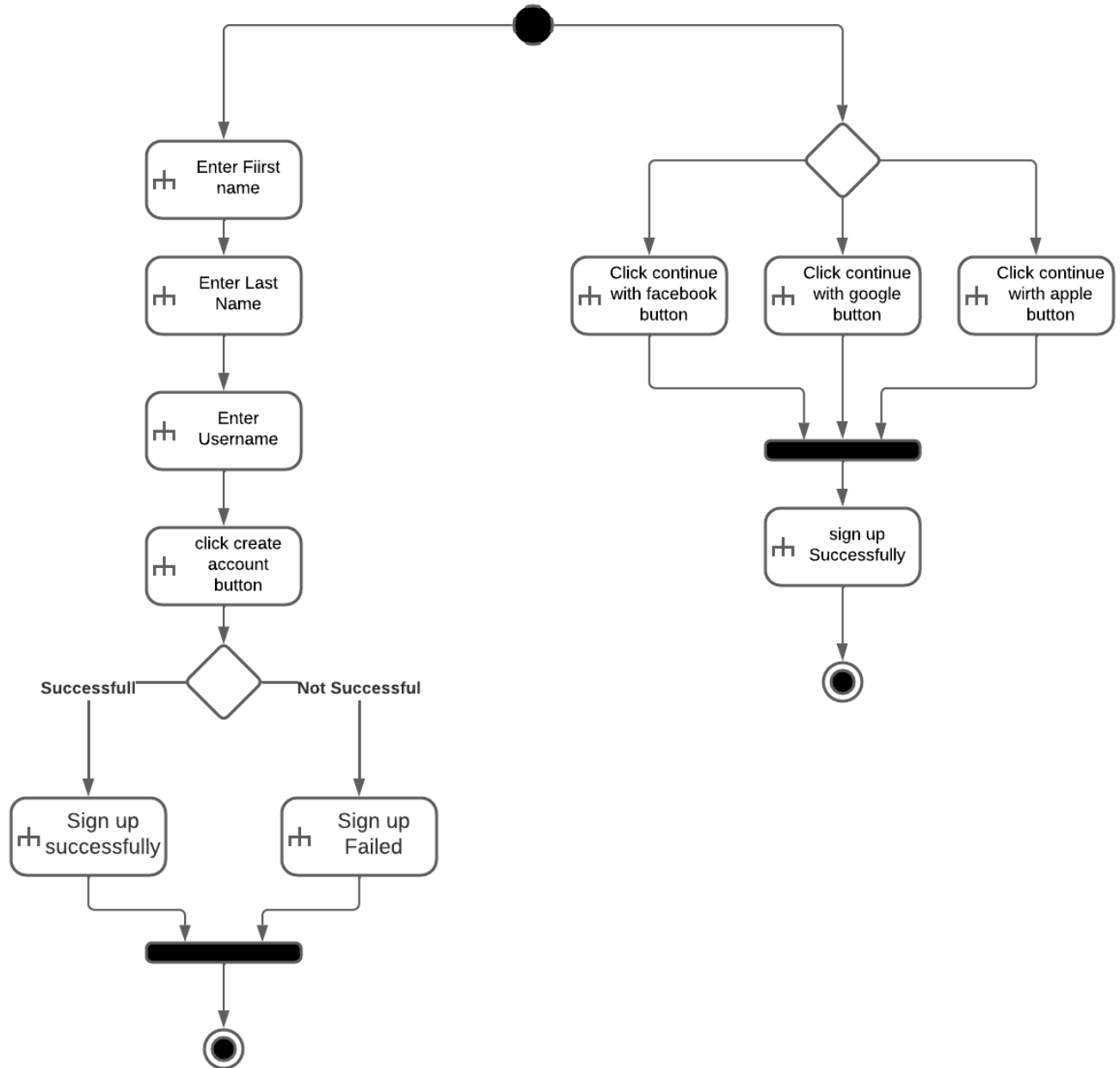


Activity Diagrams:

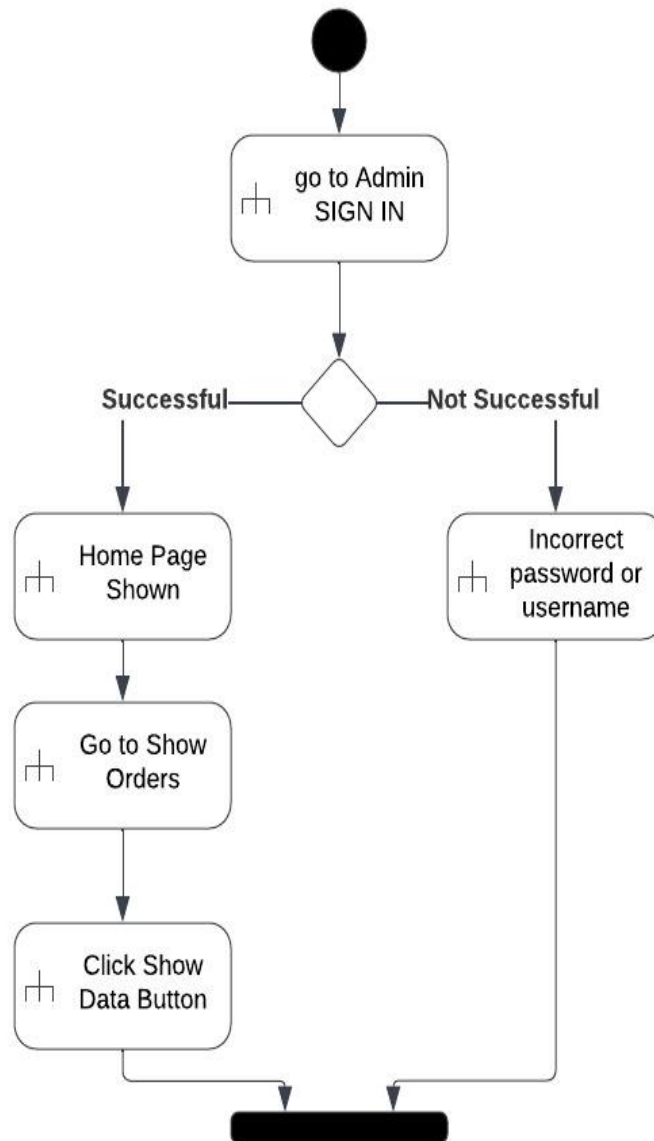
Sign in



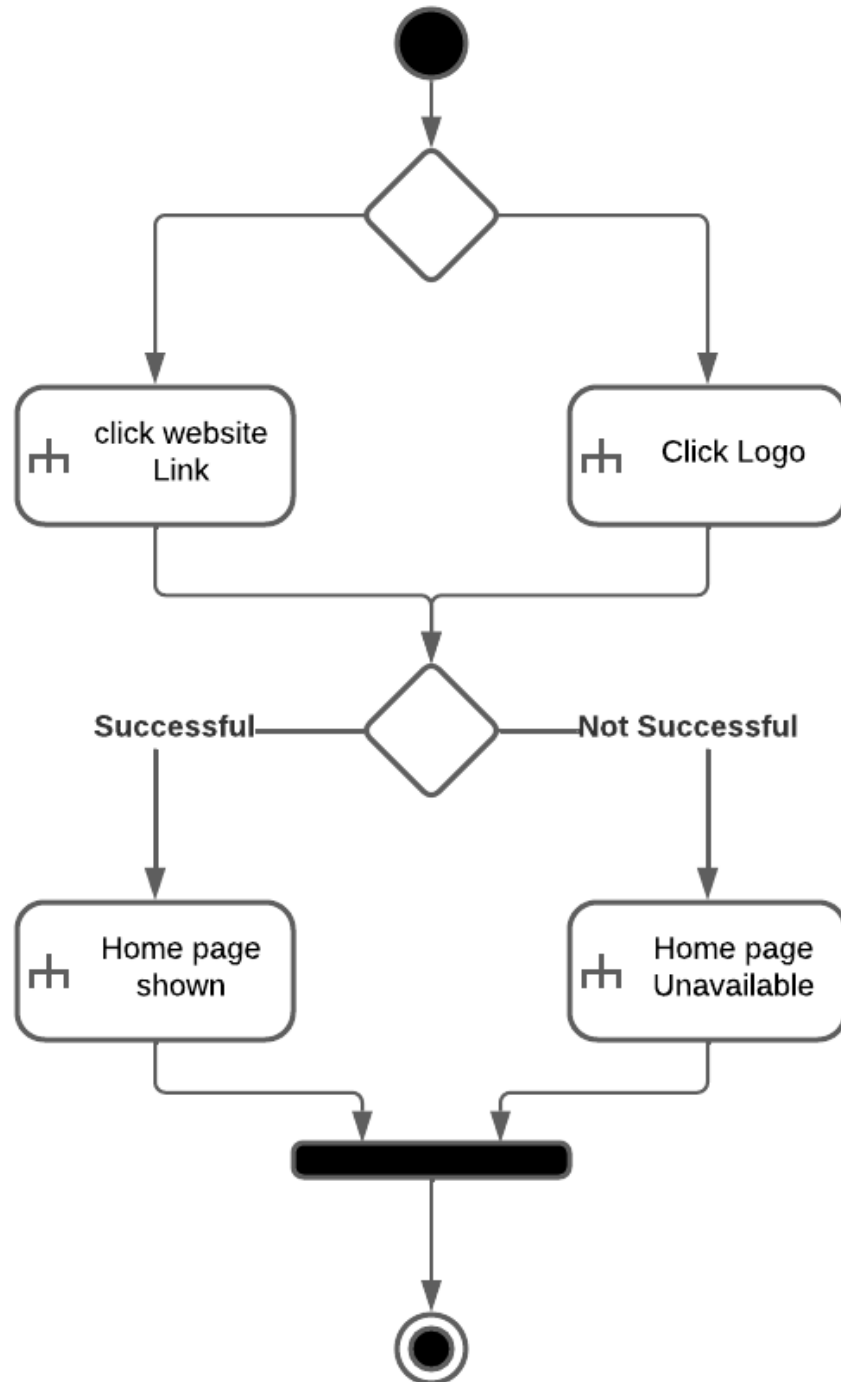
Register



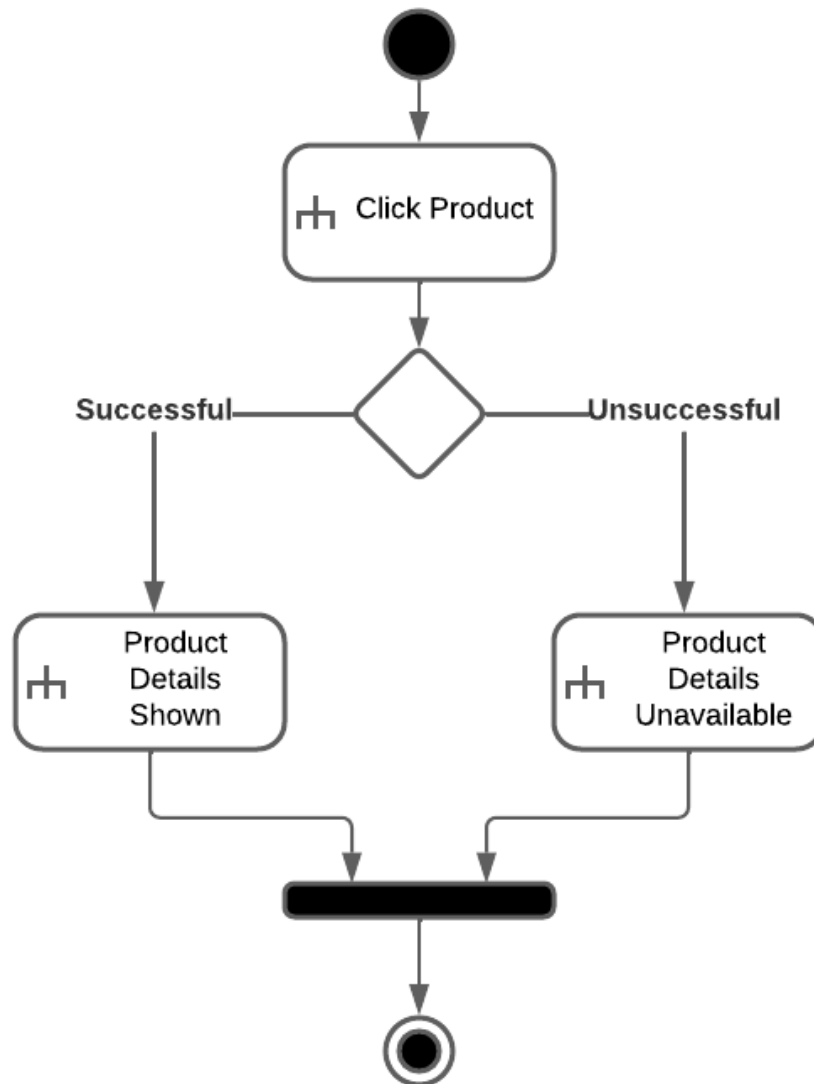
Show Orders



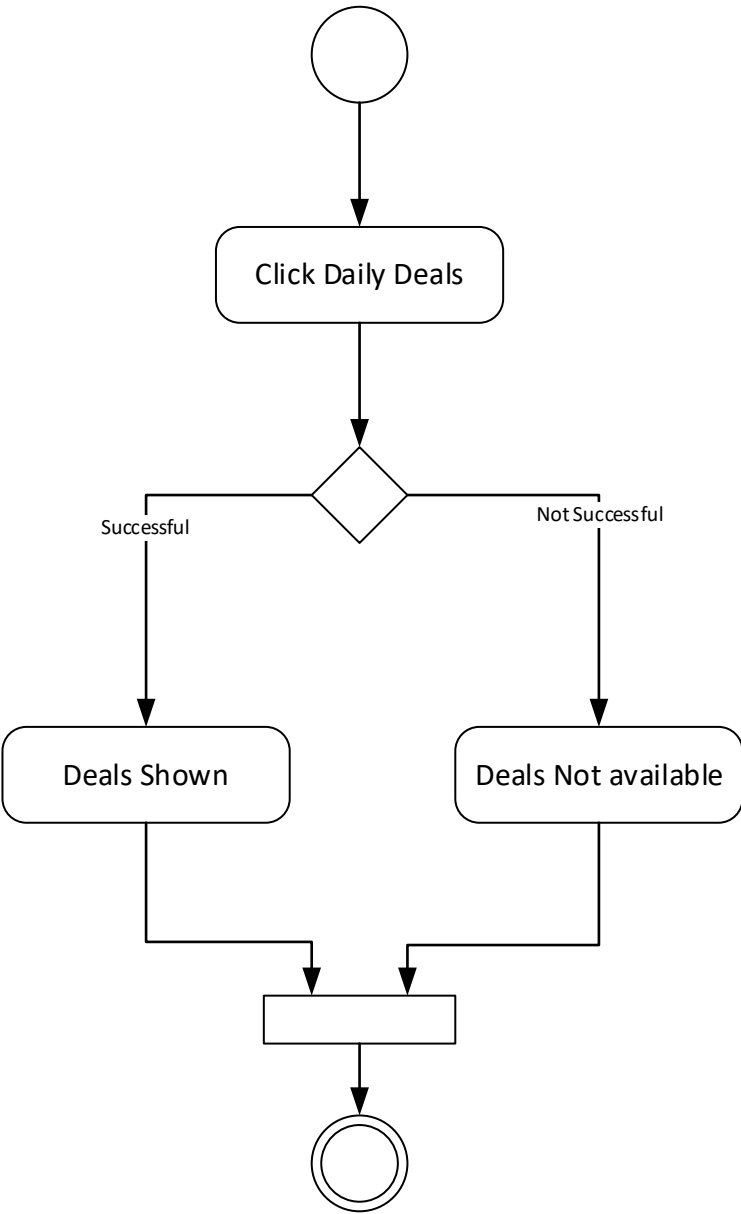
View Home



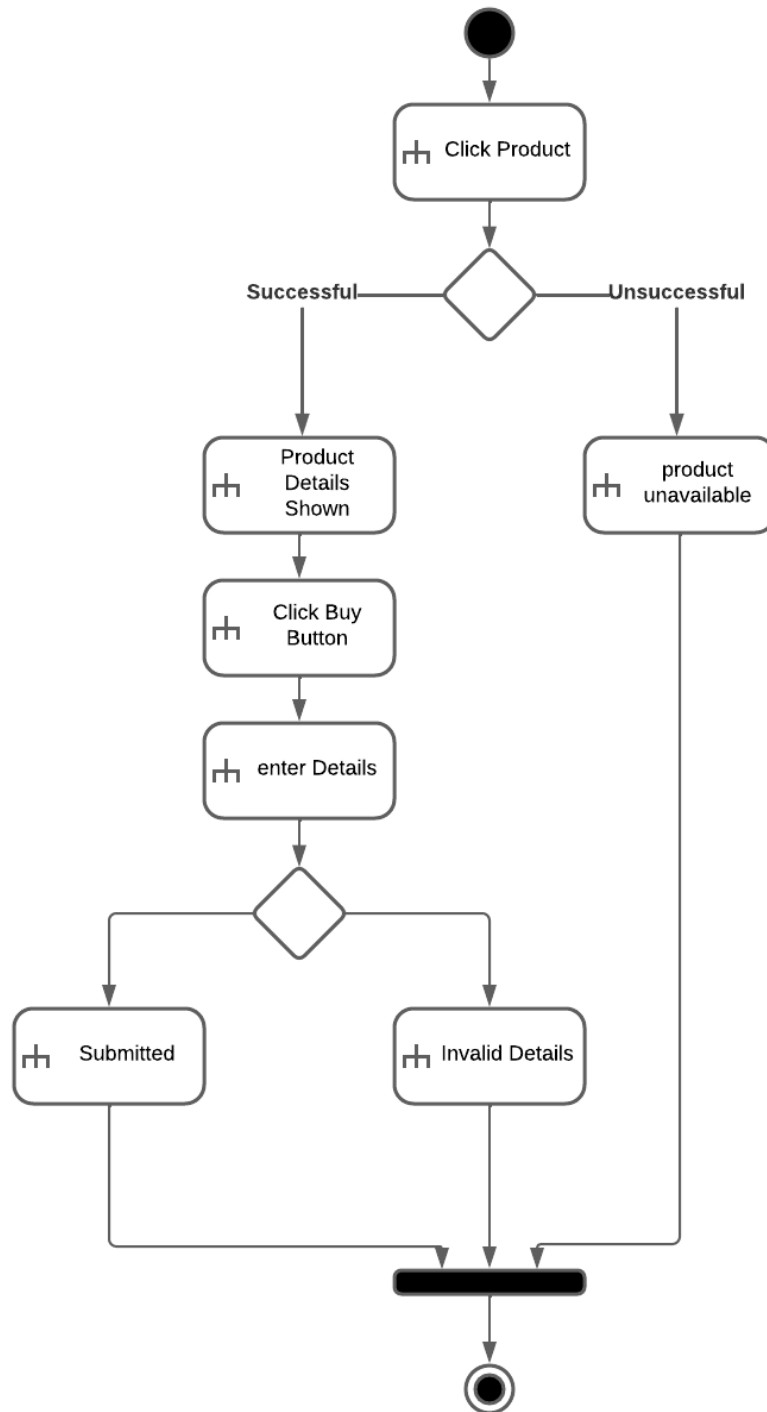
View Product Details



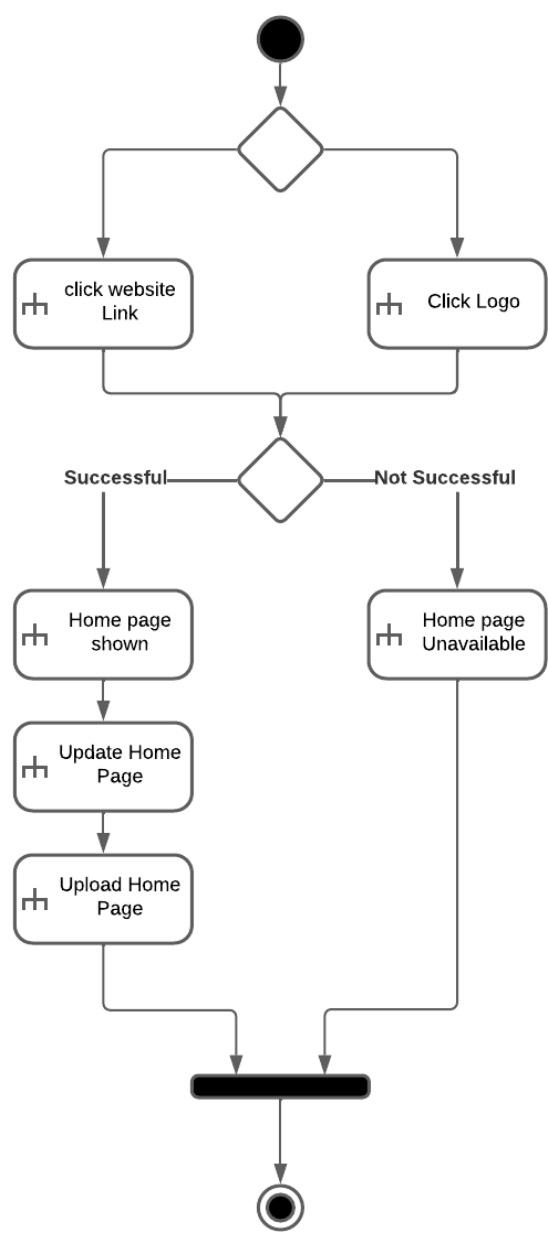
View Deals



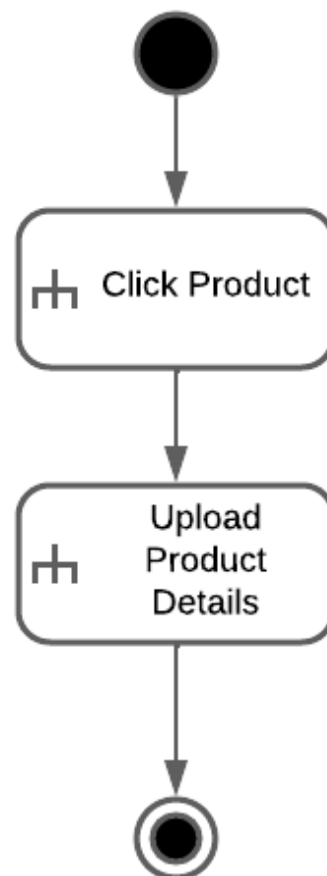
Buy



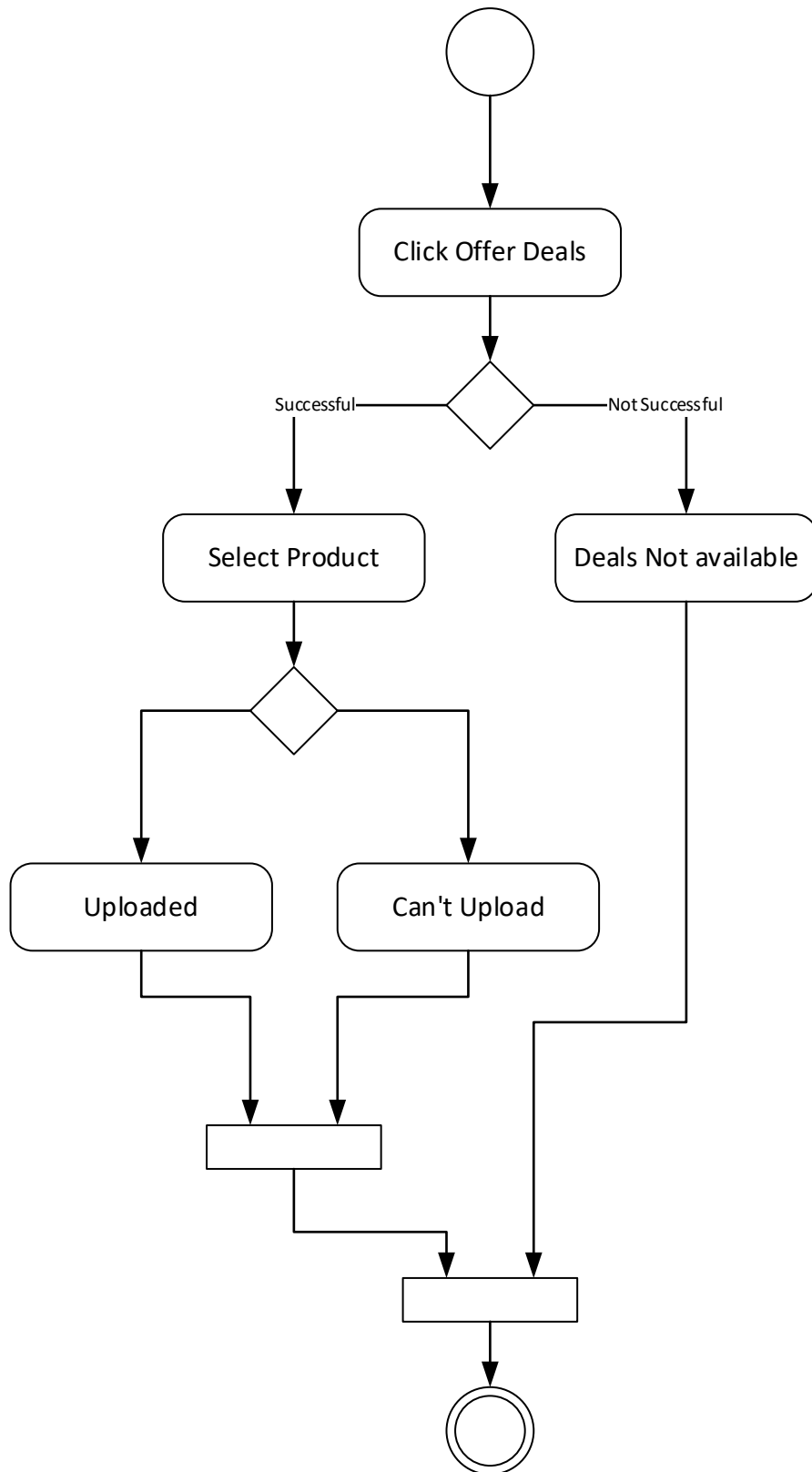
Upload Home



Upload Product Details

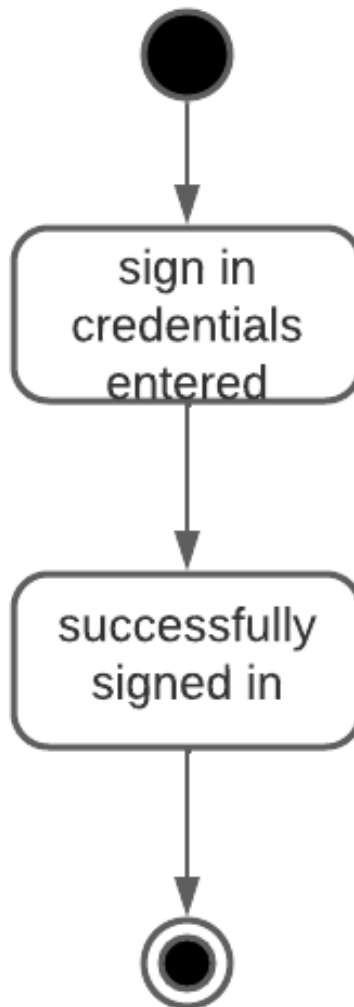


Upload Deals

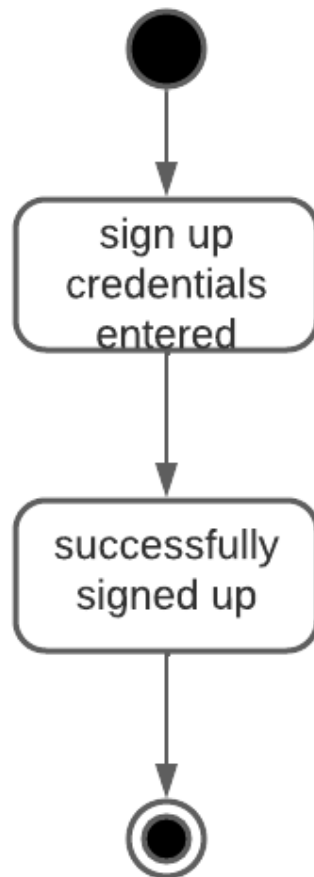


State chart Diagrams:

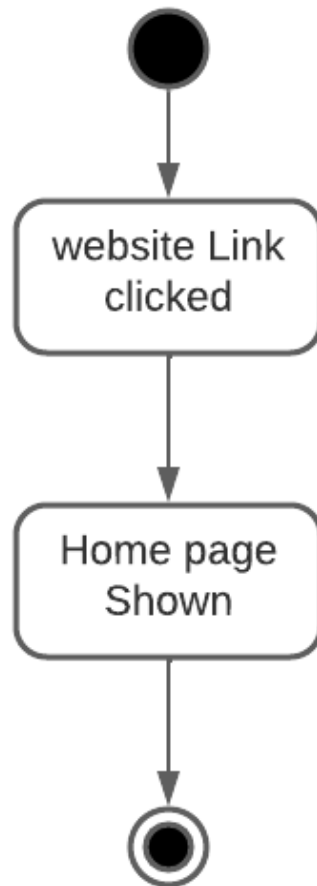
Login



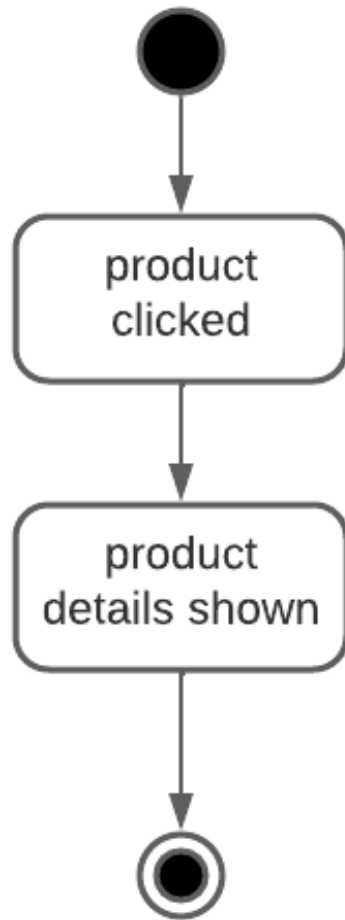
Sign Up



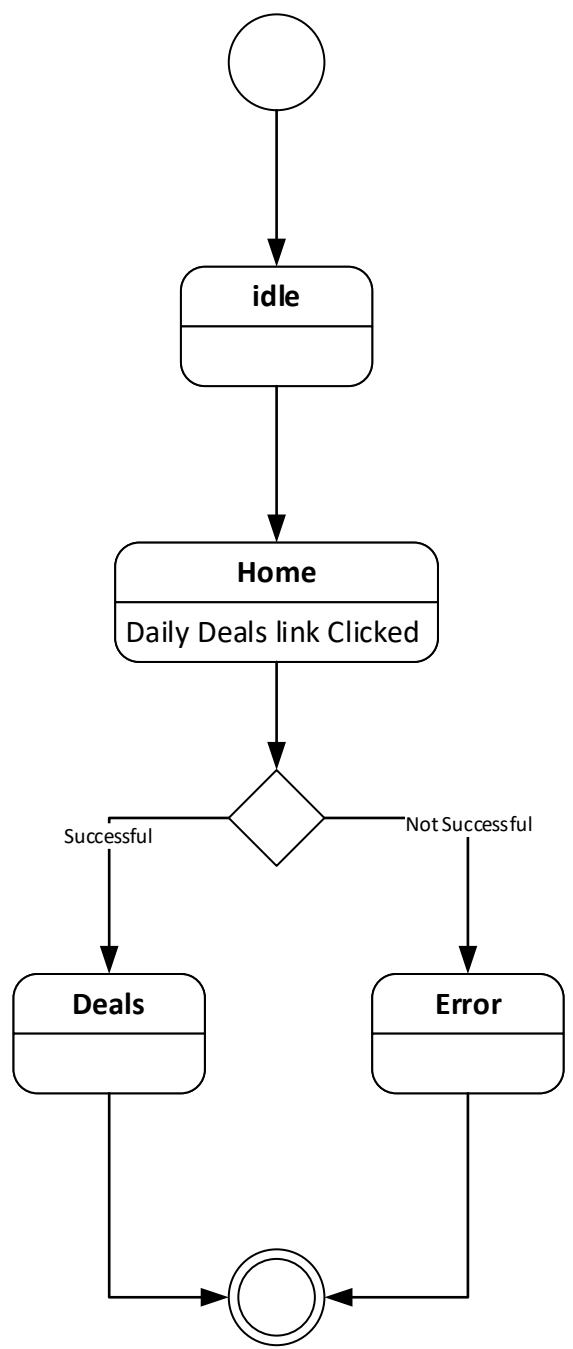
Home



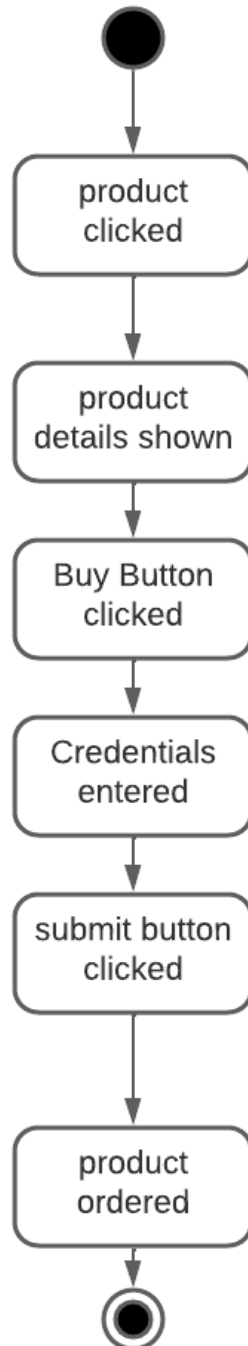
Product Details



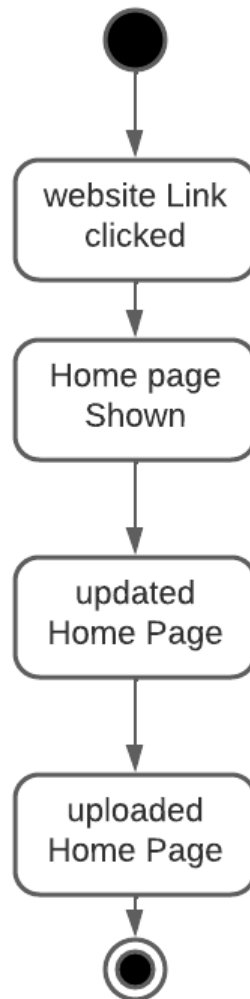
View Deals



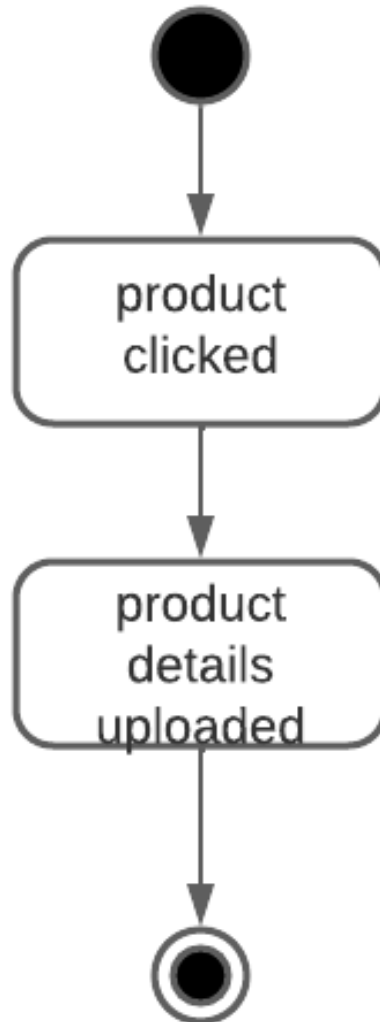
Buy



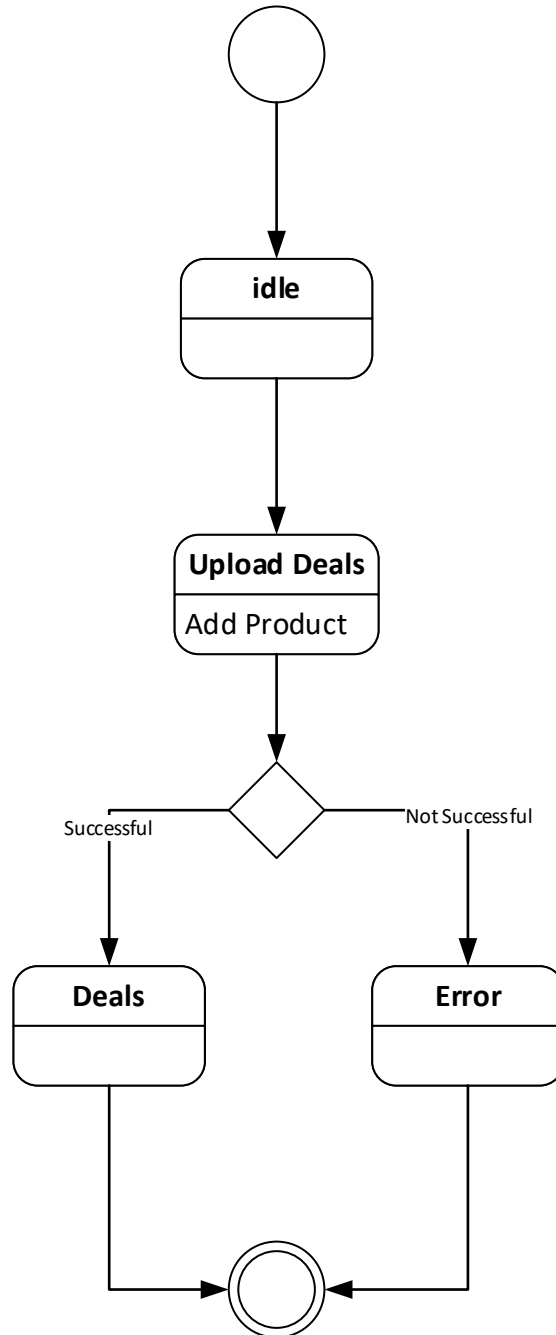
Upload Home



Upload Product Details



Upload Deals



Chapter 4: Software Architecture

We have used **MVC** structure because it has many advantages;

Advantages

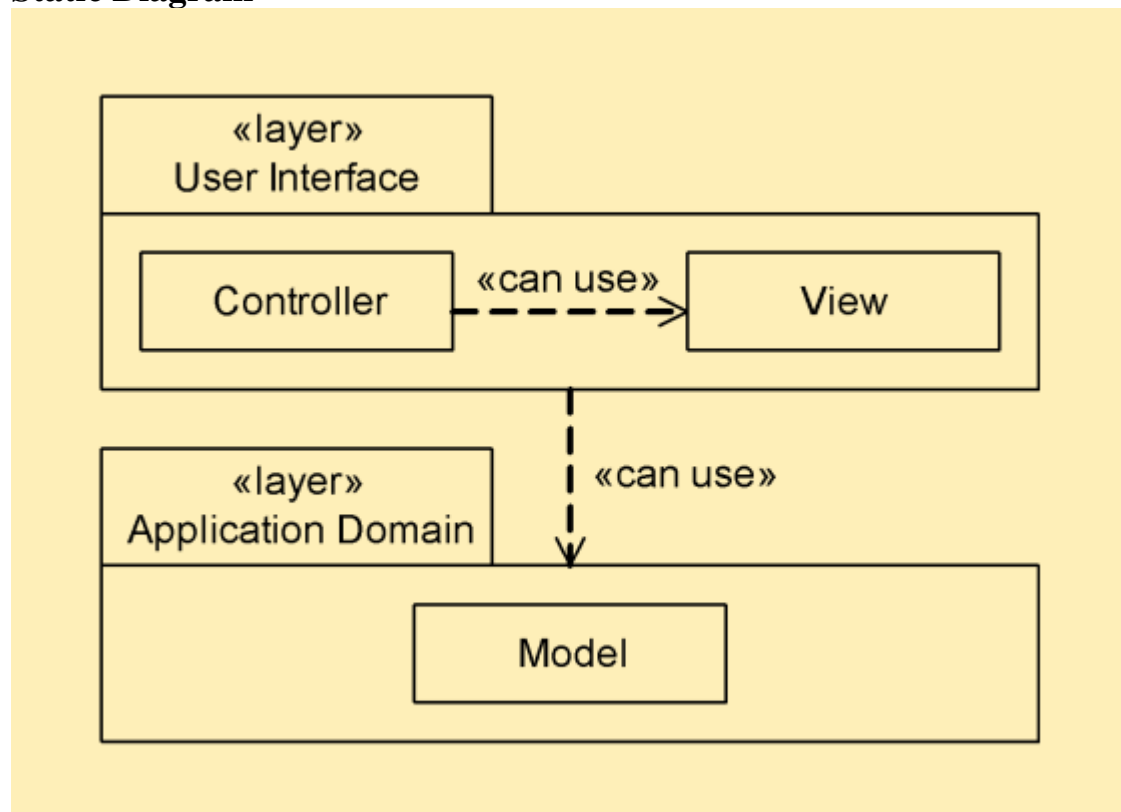
- Views and controllers can be added, removed or changed without disturbing the model
- Views can be added or changed during execution.
- User interface components can be changed, even at runtime.
- In our system, we used MVC to store the users' data in database through array list.
- It helped us to avoid redundancy.
- Also, data is managed well by using MVC.

Drawbacks

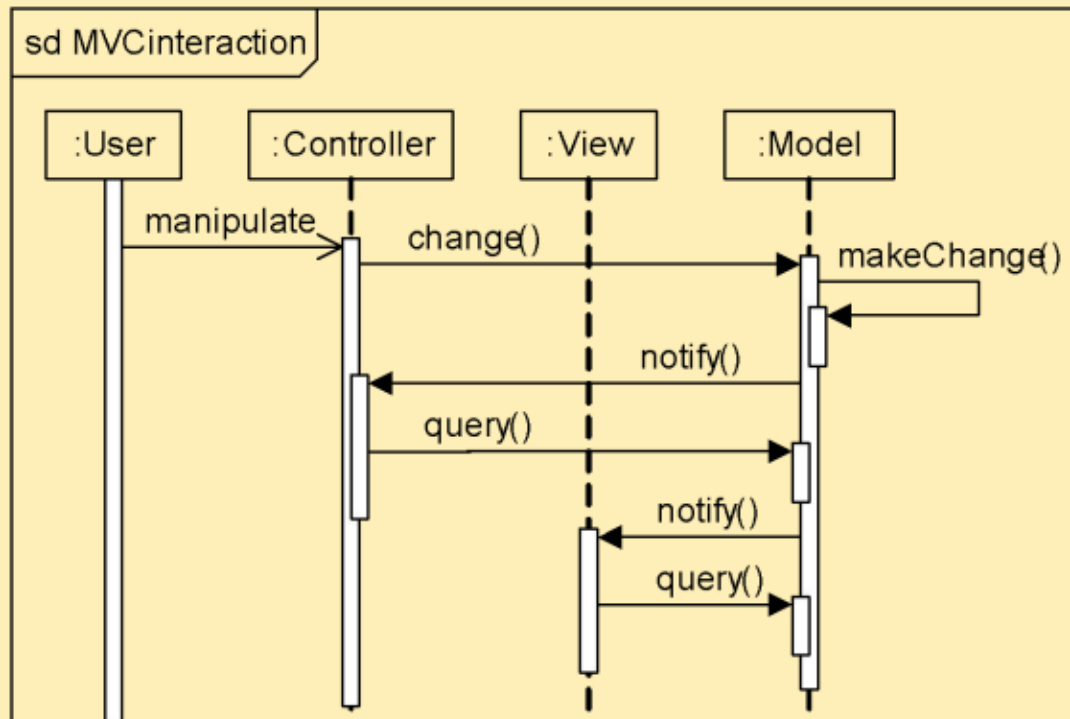
- Views and controller are often hard to separate.
- Frequent updates may slow data display and degrade user interface performance.
- The MVC style makes user interface components highly dependent on model components.

Diagram

Static Diagram

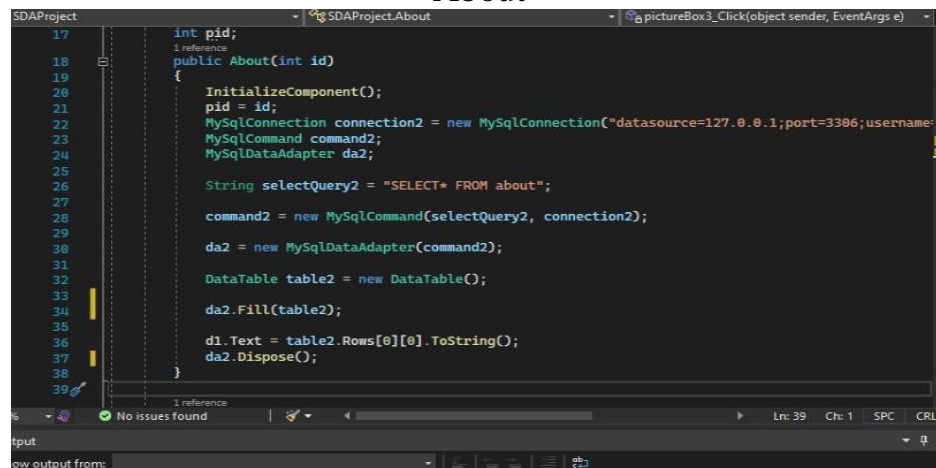


Behavior Diagram



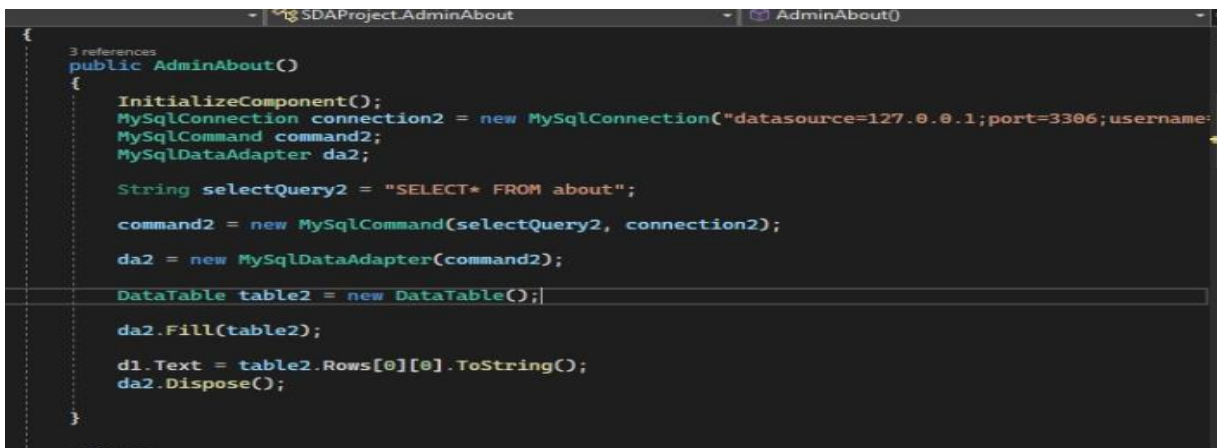
Chapter 5: Code Snippets

About



```
17  int pid;
18  1 reference
19  public About(int id)
20  {
21      InitializeComponent();
22      pid = id;
23      MySqlConnection connection2 = new MySqlConnection("datasource=127.0.0.1;port=3306;username=
24      MySqlCommand command2;
25      MySqlDataAdapter da2;
26
27      String selectQuery2 = "SELECT* FROM about";
28
29      command2 = new MySqlCommand(selectQuery2, connection2);
30
31      da2 = new MySqlDataAdapter(command2);
32
33      DataTable table2 = new DataTable();
34
35      da2.Fill(table2);
36
37      d1.Text = table2.Rows[0][0].ToString();
38      da2.Dispose();
39  }
```

Admin About



```
1  3 references
2  public AdminAbout()
3  {
4      InitializeComponent();
5      MySqlConnection connection2 = new MySqlConnection("datasource=127.0.0.1;port=3306;username=
6      MySqlCommand command2;
7      MySqlDataAdapter da2;
8
9      String selectQuery2 = "SELECT* FROM about";
10
11      command2 = new MySqlCommand(selectQuery2, connection2);
12
13      da2 = new MySqlDataAdapter(command2);
14
15      DataTable table2 = new DataTable();
16
17      da2.Fill(table2);
18
19      d1.Text = table2.Rows[0][0].ToString();
20      da2.Dispose();
21  }
```

```

private void button1_Click(object sender, EventArgs e)
{
    MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=;password=");
    MySqlCommand command;
    String insertQuery = "DELETE FROM about;";
    connection.Open();
    command = new MySqlCommand(insertQuery, connection);
    command.ExecuteNonQuery();
    connection.Close();

    insertQuery = "INSERT INTO about(Description) VALUES(@desc)";
    connection.Open();
    command = new MySqlCommand(insertQuery, connection);

    command.Parameters.Add("@desc", MySqlDbType.Text);
    command.Parameters["@desc"].Value = d1.Text;
    if (command.ExecuteNonQuery() == 1)
    {
        // Success
    }
    connection.Close();
    MessageBox.Show("Changed\n");
}

```

Admin Deals

```

3 references
public AdminDeals()
{
    InitializeComponent();
    MySqlConnection connection2 = new MySqlConnection("datasource=127.0.0.1;port=3306;username=;password=");
    MySqlCommand command2;
    MySqlDataAdapter da2;

    String selectQuery2 = "SELECT* FROM picture where id=5";
    command2 = new MySqlCommand(selectQuery2, connection2);

    da2 = new MySqlDataAdapter(command2);

    DataTable table2 = new DataTable();
    da2.Fill(table2);

    byte[] img2 = (byte[])table2.Rows[0][4];
    MemoryStream ms2 = new MemoryStream(img2);
    pictureBox6.Image = Image.FromStream(ms2);
    n1.Text = table2.Rows[0][1].ToString();
    p1.Text = table2.Rows[0][5].ToString();
    d1.Text = table2.Rows[0][2].ToString();
    da2.Dispose();
}

```

No issues found

Ln: 48 Ch: 1 SPC CRLF

```
SDAPProject.AdminDeals | AdminDeals()
p1.Text = table2.Rows[0][5].ToString();
d1.Text = table2.Rows[0][2].ToString();
da2.Dispose();

string selectQuery3 = "SELECT* FROM picture where id=6";
command2 = new MySqlCommand(selectQuery3, connection2);
da2 = new MySqlDataAdapter(command2);

DataTable table3 = new DataTable();

da2.Fill(table3);

byte[] img3 = (byte[])table3.Rows[0][4];
MemoryStream ms3 = new MemoryStream(img3);
pictureBox5.Image = Image.FromStream(ms3);
n2.Text = table3.Rows[0][1].ToString();
p2.Text = table3.Rows[0][5].ToString();
d2.Text = table3.Rows[0][2].ToString();
da2.Dispose();

No issues found | Ln: 48 Ch: 1 SPC CRLF
```

```
string selectQuery5 = "SELECT* FROM picture where id=8";
command2 = new MySqlCommand(selectQuery5, connection2);

da2 = new MySqlDataAdapter(command2);

DataTable table5 = new DataTable();

da2.Fill(table5);

byte[] img5 = (byte[])table5.Rows[0][4];
MemoryStream ms5 = new MemoryStream(img5);
pictureBox7.Image = Image.FromStream(ms5);
n4.Text = table5.Rows[0][1].ToString();
p4.Text = table5.Rows[0][5].ToString();
d4.Text = table5.Rows[0][2].ToString();
da2.Dispose();
}

SDAPProject.AdminDeals | button3_Click(object sender, EventArgs e)
```

```
private void button2_Click(object sender, EventArgs e)
{
    if (n1.Text != "" && p1.Text != "" && d1.Text != "")
    {
        MemoryStream ms = new MemoryStream();
        pictureBox6.Image.Save(ms, pictureBox6.Image.RawFormat);
        byte[] img = ms.ToArray();
        MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
        MySqlCommand command;
        String insertQuery = "DELETE FROM picture WHERE id=5;";
        connection.Open();
        command = new MySqlCommand(insertQuery, connection);
        command.ExecuteNonQuery();
        connection.Close();

        insertQuery = "INSERT INTO picture(id,name,Description,quantity,address,price) VALUES(@id,@name,@desc,@qth,@img,@pri)";
        connection.Open();
        command = new MySqlCommand(insertQuery, connection);

        command.Parameters.Add("@id", MySqlDbType.VarChar, 20);
        command.Parameters.Add("@name", MySqlDbType.VarChar, 200);
        command.Parameters.Add("@desc", MySqlDbType.Text);
        command.Parameters.Add("@qth", MySqlDbType.Int64);
        command.Parameters.Add("@pri", MySqlDbType.Int64);
    }
}

Issues found | Ln: 178 Ch: 1 SPC CRLF
```

```
SDAPProject.AdminDeals button2_Click(object sender, EventArgs e)

    command = new MySqlCommand(insertQuery, connection);

    command.Parameters.Add("@id", MySqlDbType.VarChar, 20);
    command.Parameters.Add("@name", MySqlDbType.VarChar, 200);
    command.Parameters.Add("@desc", MySqlDbType.Text);
    command.Parameters.Add("@qth", MySqlDbType.Int64);
    command.Parameters.Add("@pri", MySqlDbType.Int64);
    command.Parameters.Add("@img", MySqlDbType.Blob);

    command.Parameters["@id"].Value = 5;
    command.Parameters["@name"].Value = n1.Text;
    command.Parameters["@desc"].Value = d1.Text;
    command.Parameters["@pri"].Value = p1.Text;
    command.Parameters["@img"].Value = img;

    if (command.ExecuteNonQuery() == 1)
    {
    }

    connection.Close();
}
MessageBox.Show("Changed\n");

}

1 reference
private void pictureBox3_Click(object sender, EventArgs e)
{
    System.Diagnostics.Process.Start("https://us.norton.com/");
}

1 reference
private void pictureBox6_Click(object sender, EventArgs e)
{
    OpenFileDialog opf = new OpenFileDialog();
    opf.Filter = "Choose Image(*.jpg; *.png; *.gif)|*.jpg; *.png; *.gif";
    if (opf.ShowDialog() == DialogResult.OK)
    {
        pictureBox6.Image = Image.FromFile(opf.FileName);
    }
}

1 reference
private void pictureBox5_Click(object sender, EventArgs e)
{
    OpenFileDialog opf = new OpenFileDialog();
    CRLF
```



```

1 reference
private void pictureBox5_Click(object sender, EventArgs e)
{
    OpenFileDialog opf = new OpenFileDialog();
    opf.Filter = "Choose Image(*.jpg; *.png; *.gif)|*.jpg; *.png; *.gif";
    if (opf.ShowDialog() == DialogResult.OK)
    {
        pictureBox5.Image = Image.FromFile(opf.FileName);
    }
}

1 reference
private void pictureBox4_Click(object sender, EventArgs e)
{
    OpenFileDialog opf = new OpenFileDialog();
    opf.Filter = "Choose Image(*.jpg; *.png; *.gif)|*.jpg; *.png; *.gif";
    if (opf.ShowDialog() == DialogResult.OK)
    {
        pictureBox4.Image = Image.FromFile(opf.FileName);
    }
}

1 reference
private void pictureBox7_Click(object sender, EventArgs e)

```

Admin Home

```

6 references
public AdminHome()
{
    InitializeComponent();
    MySqlConnection connection2 = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand command2;
    MySqlDataAdapter da2;

    String selectQuery2 = "SELECT* FROM picture where id=1";

    command2 = new MySqlCommand(selectQuery2, connection2);

    da2 = new MySqlDataAdapter(command2);

    DataTable table2 = new DataTable();

    da2.Fill(table2);

    byte[] img2 = (byte[])table2.Rows[0][4];
    MemoryStream ms2 = new MemoryStream(img2);
    pictureBox6.Image = Image.FromStream(ms2);
    n1.Text = table2.Rows[0][1].ToString();
    p1.Text = table2.Rows[0][5].ToString();
    d1.Text = table2.Rows[0][2].ToString();
}

```

No issues found

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```
Project          SDAProject.AdminHome          AdminHome()
33      da2.Fill(table2);
34
35      byte[] img2 = (byte[])table2.Rows[0][4];
36      MemoryStream ms2 = new MemoryStream(img2);
37      pictureBox6.Image = Image.FromStream(ms2);
38      n1.Text = table2.Rows[0][1].ToString();
39      p1.Text = table2.Rows[0][5].ToString();
40      d1.Text = table2.Rows[0][2].ToString();
41      da2.Dispose();
42
43
44      string selectQuery3 = "SELECT* FROM picture where id=2";
45
46      command2 = new MySqlCommand(selectQuery3, connection2);
47
48      da2 = new MySqlDataAdapter(command2);
49
50      DataTable table3 = new DataTable();
51
52      da2.Fill(table3);
53
54      byte[] img3 = (byte[])table3.Rows[0][4];
55      MemoryStream ms3 = new MemoryStream(img3);
56      pictureBox5.Image = Image.FromStream(ms3);
57      n2.Text = table3.Rows[0][1].ToString();
58      p2.Text = table3.Rows[0][5].ToString();
59      d2.Text = table3.Rows[0][2].ToString();
60      da2.Dispose();
61
62
63      string selectQuery4 = "SELECT* FROM picture where id=3";
64
65      command2 = new MySqlCommand(selectQuery4, connection2);
66
67      da2 = new MySqlDataAdapter(command2);
68
69      DataTable table4 = new DataTable();
70
71      da2.Fill(table4);
72
73      byte[] img4 = (byte[])table4.Rows[0][4];
74      MemoryStream ms4 = new MemoryStream(img4);
75      pictureBox4.Image = Image.FromStream(ms4);
76      n3.Text = table4.Rows[0][1].ToString();
77      d3.Text = table4.Rows[0][2].ToString();
78      p3.Text = table4.Rows[0][5].ToString();
79
80      da2.Dispose();
```



```
SDAPProject.AdminHome button2_Click(object sender, EventArgs e)

    p4.Text = table5.Rows[0][5].ToString();
    d4.Text = table5.Rows[0][2].ToString();
    da2.Dispose();
}

1 reference
private void pictureBox6_Click(object sender, EventArgs e)
{
    OpenFileDialog opf = new OpenFileDialog();
    opf.Filter = "Choose Image(*.jpg; *.png; *.gif)|*.jpg; *.png; *.gif";
    if (opf.ShowDialog() == DialogResult.OK)
    {
        pictureBox6.Image = Image.FromFile(opf.FileName);
    }
}

1 reference
private void button2_Click(object sender, EventArgs e)
{
    if(n1.Text!=" && p1.Text!=" && d1.Text!=")
    {
        MemoryStream ms = new MemoryStream();
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```
1 reference
private void pictureBox5_Click(object sender, EventArgs e)
{
    OpenFileDialog opf = new OpenFileDialog();
    opf.Filter = "Choose Image(*.jpg; *.png; *.gif)|*.jpg; *.png; *.gif";
    if (opf.ShowDialog() == DialogResult.OK)
    {
        pictureBox5.Image = Image.FromFile(opf.FileName);
    }
}

1 reference
private void pictureBox4_Click(object sender, EventArgs e)
{
    OpenFileDialog opf = new OpenFileDialog();
    opf.Filter = "Choose Image(*.jpg; *.png; *.gif)|*.jpg; *.png; *.gif";
    if (opf.ShowDialog() == DialogResult.OK)
    {
        pictureBox4.Image = Image.FromFile(opf.FileName);
    }
}

1 reference
private void pictureBox7_Click(object sender, EventArgs e)
```

Admin Orders

```
1 reference
private void button1_Click(object sender, EventArgs e)
{
    string connectionString = "datasource=127.0.0.1;port=3306;username=root;password=;database=eMart";
    using (MySqlConnection sqlcon = new MySqlConnection(connectionString))
    {
        sqlcon.Open();
        MySqlDataAdapter sqlad = new MySqlDataAdapter("SELECT * FROM order_place ", sqlcon);
        DataTable student = new DataTable();
        sqlad.Fill(student);
        dataGridView1.DataSource = student;
        sqlcon.Close();
    }
}

1 reference
private void linkLabel4_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)
{
    AdminDeals d = new AdminDeals();
    this.Hide();
    d.Show();
}

1 reference
```

Buy Now

```
SDAProject.Buy_Now | Buy_Now(string email, int i)
1 reference
public Buy_Now(string email, int i)
{
    InitializeComponent();
    ep = email;
    id = i;

    MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand command;
    MySqlDataAdapter da;

    String selectQuery = "SELECT* FROM picture where id=" + id;
    command = new MySqlCommand(selectQuery, connection);

    da = new MySqlDataAdapter(command);

    DataTable table = new DataTable();

    da.Fill(table);

    qn.Text = table.Rows[0][3].ToString();

    int b = Int32.Parse(qn.Text);
    pp.Text = table.Rows[0][5].ToString();
    int c = Int32.Parse(pp.Text);

    int b = Int32.Parse(qn.Text);
    pp.Text = table.Rows[0][5].ToString();
    int c = Int32.Parse(pp.Text);

    int t = b * c;

    la.Text = t.ToString();

    da.Dispose();
}

1 reference
private void pictureBox1_Click(object sender, EventArgs e)
{
    Form1 f = new Form1(id);
    this.Hide();
    f.Show();
}

0 references
private void linkLabel1_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

1 reference
private void OK_Click(object sender, EventArgs e)
{
    MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand command;
    MySqlDataAdapter da;

    String selectQuery = "SELECT* FROM customers where email='" + ep+"'";

    command = new MySqlCommand(selectQuery, connection);

    da = new MySqlDataAdapter(command);

    DataTable table = new DataTable();

    da.Fill(table);
    if(a1.Text!="")
    {
        FIRSTNAME.Text = table.Rows[0][0].ToString();
        LASTNAME.Text = table.Rows[0][1].ToString();
        PHONE.Text = table.Rows[0][4].ToString();
        ADDRESS.Text = a1.Text;
    }
}
```

```

105     da.Dispose();
106 }
107
108
109
110
111 0 references
112 private void textBox1_KeyPress(object sender, KeyPressEventArgs e)
113 {
114     char ch=e.KeyChar;
115     if(!Char.IsDigit(ch) && ch!=8 && ch!=46)
116     {
117         e.Handled = true;
118     }
119 }
120
121 1 reference
122 private void linkLabel1_LinkClicked_1(object sender, LinkLabelLinkClickedEventArgs e)
123 {
124     Home h = new Home(id);
125     this.Hide();
126     h.Show();
127 }

```

No issues found | Ln: 105 Ch: 13 SPC CR

```

1 reference
private void BUY_Click(object sender, EventArgs e)
{
    if(ADDRESS.Text!="")
    {
        MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
        MySqlCommand command;
        MySqlDataAdapter da;

        String selectQuery = "SELECT* FROM picture where id=" + id;
        command = new MySqlCommand(selectQuery, connection);

        da = new MySqlDataAdapter(command);

        DataTable table = new DataTable();

        da.Fill(table);
        byte[] img = (byte[])table.Rows[0][4];
        qn.Text = table.Rows[0][3].ToString();

        int b = Int32.Parse(qn.Text);
        pp.Text = table.Rows[0][5].ToString();
        int c = Int32.Parse(pp.Text);

        int t = Int32.Parse(qn.Text);
        pp.Text = table.Rows[0][5].ToString();
        int c = Int32.Parse(pp.Text);

        int t = b * c;

        la.Text = t.ToString();

        MySqlConnection connection1 = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
        MySqlCommand command1;
        string insertQuery = "INSERT INTO order_place(FirstName,LastName,address,phone,id,pic,quantity,PerItemPrice,TotalPrice)";
        connection1.Open();
        command1 = new MySqlCommand(insertQuery, connection1);

        command1.Parameters.Add("@fn", MySqlDbType.VarChar, 200);
        command1.Parameters.Add("@ln", MySqlDbType.VarChar, 200);
        command1.Parameters.Add("@ad", MySqlDbType.VarChar, 200);
        command1.Parameters.Add("@p", MySqlDbType.VarChar, 200);
        command1.Parameters.Add("@pid", MySqlDbType.VarChar, 200);
        command1.Parameters.Add("@q", MySqlDbType.VarChar, 200);
        command1.Parameters.Add("@pp", MySqlDbType.VarChar, 200);
        command1.Parameters.Add("@tp", MySqlDbType.VarChar, 200);
        command1.Parameters.Add("@img", MySqlDbType.Blob);
    }
}

```



```
command1.Parameters["@fn"].Value = FIRSTNAME.Text;
command1.Parameters["@ln"].Value = LASTNAME.Text;
command1.Parameters["@ad"].Value = ADDRESS.Text;
command1.Parameters["@p"].Value = PHONE.Text;
command1.Parameters["@pid"].Value = id;
command1.Parameters["@q"].Value = b;
command1.Parameters["@pp"].Value = c;
command1.Parameters["@tp"].Value = b+c;
command1.Parameters["@img"].Value = img;

if (command1.ExecuteNonQuery() == 1)
{
}

connection1.Close();

da.Dispose();
MessageBox.Show("Your Order Has Been Placed\nThanks For Shopping");
```

No issues found | Ln: 215 Ch: 30 SPC CRLF

Confirm Sign in

```
1 reference
private void MoveToSignIn_Click(object sender, EventArgs e)
{
    string emailcheck = "";
    string passwordcheck = "";
    bool flag = false;
    MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand cmd;
    MySqlDataReader mdr;

    connection.Open();

    string query = "SELECT * FROM customers WHERE email='" + USERNAME.Text + "'";
    cmd = new MySqlCommand(query, connection);

    mdr = cmd.ExecuteReader();

    if (mdr.Read())
    {
        emailcheck = mdr.GetString("email");
        passwordcheck = mdr.GetString("password");
        flag = true;
    }
    else
    {
        if (mdr.Read())
        {
            emailcheck = mdr.GetString("email");
            passwordcheck = mdr.GetString("password");
            flag = true;
        }
        else
        {
            MessageBox.Show("No Record Of This ID");
        }
    }
    if (flag == true)
    {
        if (emailcheck == USERNAME.Text && passwordcheck == PASSWORD.Text)
        {
            Buy_Now form = new Buy_Now(emailcheck,pe);
            this.Hide();
            form.Show();
        }
        else
        {
            MessageBox.Show("User is Invalid");
        }
    }
}
```

Daily Deals

```
private void p2_Click(object sender, EventArgs e)
{
    MemoryStream ms = new MemoryStream();
    p2.Image.Save(ms, p2.Image.RawFormat);
    byte[] img = ms.ToArray();
    MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand command;
    String insertQuery = "DELETE FROM picture WHERE id=6;";
    connection.Open();
    command = new MySqlCommand(insertQuery, connection);
    command.ExecuteNonQuery();
    connection.Close();

    insertQuery = "INSERT INTO picture(id,name,quantity,address,price,Description) VALUES(@id,@name,@qth,@img,@pri,@desc)";
    connection.Open();
    command = new MySqlCommand(insertQuery, connection);

    command.Parameters.Add("@id", MySqlDbType.VarChar, 20);
    command.Parameters.Add("@name", MySqlDbType.VarChar, 200);
    command.Parameters.Add("@desc", MySqlDbType.VarChar, 20);

    command.Parameters.Add("@qth", MySqlDbType.Int64);
    command.Parameters.Add("@pri", MySqlDbType.Int64);

    command.Parameters.Add("@id", MySqlDbType.VarChar, 20);
    command.Parameters.Add("@name", MySqlDbType.VarChar, 200);
    command.Parameters.Add("@desc", MySqlDbType.VarChar, 20);

    command.Parameters.Add("@qth", MySqlDbType.Int64);
    command.Parameters.Add("@pri", MySqlDbType.Int64);
    command.Parameters.Add("@img", MySqlDbType.Blob);

    command.Parameters["@id"].Value = pid = 5;
    command.Parameters["@name"].Value = n1.Text;
    command.Parameters["@pri"].Value = pr1.Text;
    command.Parameters["@desc"].Value = d1.Text;
    command.Parameters["@img"].Value = img;

    if (command.ExecuteNonQuery() == 1)
    {
    }

    connection.Close();

    Product_Details p = new Product_Details(pid);
    this.Hide();
}
```

```

private void p1_Click(object sender, EventArgs e)
{
    MemoryStream ms = new MemoryStream();
    p1.Image.Save(ms, p1.Image.RawFormat);
    byte[] img = ms.ToArray();
    MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand command;
    String insertQuery = "DELETE FROM picture WHERE id=5;";
    connection.Open();
    command = new MySqlCommand(insertQuery, connection);
    command.ExecuteNonQuery();
    connection.Close();

    insertQuery = "INSERT INTO picture(id,name,quantity,address,price,Description) VALUES(@id,@name,@qth,@img,@pri,@desc)";
    connection.Open();
    command = new MySqlCommand(insertQuery, connection);

    command.Parameters.Add("@id", MySqlDbType.VarChar, 20);
    command.Parameters.Add("@name", MySqlDbType.VarChar, 200);
    command.Parameters.Add("@desc", MySqlDbType.VarChar, 20);

    command.Parameters.Add("@qth", MySqlDbType.Int64);
    command.Parameters.Add("@pri", MySqlDbType.Int64);

    string selectQuery4 = "SELECT* FROM picture where id=7";

    command2 = new MySqlCommand(selectQuery4, connection2);

    da2 = new MySqlDataAdapter(command2);

    DataTable table4 = new DataTable();

    da2.Fill(table4);

    byte[] img4 = (byte[])table4.Rows[0][4];
    MemoryStream ms4 = new MemoryStream(img4);
    p3.Image = Image.FromStream(ms4);
    n3.Text = table4.Rows[0][1].ToString();
    d3.Text = table4.Rows[0][2].ToString();
    pr3.Text = table4.Rows[0][5].ToString();

    da2.Dispose();

    string selectQuery5 = "SELECT* FROM picture where id=8";

    command2 = new MySqlCommand(selectQuery5, connection2);

    byte[] img2 = (byte[])table2.Rows[0][4];
    MemoryStream ms2 = new MemoryStream(img2);
    p1.Image = Image.FromStream(ms2);
    n1.Text = table2.Rows[0][1].ToString();
    pr1.Text = table2.Rows[0][5].ToString();
    d1.Text = table2.Rows[0][2].ToString();
    da2.Dispose();

    string selectQuery3 = "SELECT* FROM picture where id=6";

    command2 = new MySqlCommand(selectQuery3, connection2);

    da2 = new MySqlDataAdapter(command2);

    DataTable table3 = new DataTable();

    da2.Fill(table3);

    byte[] img3 = (byte[])table3.Rows[0][4];
    MemoryStream ms3 = new MemoryStream(img3);
    p2.Image = Image.FromStream(ms3);
    n2.Text = table3.Rows[0][1].ToString();
    pr2.Text = table3.Rows[0][5].ToString();

```

```
4 references
public DailyDeals(int p)
{
    InitializeComponent();
    pid = p;
    MySqlConnection connection2 = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand command2;
    MySqlDataAdapter da2;

    String selectQuery2 = "SELECT* FROM picture where id=5";

    command2 = new MySqlCommand(selectQuery2, connection2);

    da2 = new MySqlDataAdapter(command2);

    DataTable table2 = new DataTable();

    da2.Fill(table2);

    byte[] img2 = (byte[])table2.Rows[0][4];
    MemoryStream ms2 = new MemoryStream(img2);
    p1.Image = Image.FromStream(ms2);
    n1.Text = table2.Rows[0][1].ToString();
    pr1.Text = table2.Rows[0][5].ToString();
}
```

No issues found

Home

```
public int id = 0;
18 references
public Form1(int p)
{
    InitializeComponent();
    id = p;

    MySqlConnection connection2 = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand command2;
    MySqlDataAdapter da2;

    String selectQuery2 = "SELECT* FROM picture where id=1";

    command2 = new MySqlCommand(selectQuery2, connection2);

    da2 = new MySqlDataAdapter(command2);

    DataTable table2 = new DataTable();

    da2.Fill(table2);

    byte[] img2 = (byte[])table2.Rows[0][4];
    MemoryStream ms2 = new MemoryStream(img2);
}
```



```

da2.Fill(table2);

byte[] img2 = (byte[])table2.Rows[0][4];
MemoryStream ms2 = new MemoryStream(img2);
pictureBox6.Image = Image.FromStream(ms2);
n1.Text = table2.Rows[0][1].ToString();
p1.Text = table2.Rows[0][5].ToString();
d1.Text = table2.Rows[0][2].ToString();
da2.Dispose();

string selectQuery3 = "SELECT* FROM picture where id=2";

command2 = new MySqlCommand(selectQuery3, connection2);

da2 = new MySqlDataAdapter(command2);

DataTable table3 = new DataTable();

da2.Fill(table3);

byte[] img3 = (byte[])table3.Rows[0][4];
MemoryStream ms3 = new MemoryStream(img3);
pictureBox5.Image = Image.FromStream(ms3);

```

1 reference

```

private void pictureBox6_Click(object sender, EventArgs e)
{
    void Form1.pictureBox6_Click(object sender, EventArgs e)

    MemoryStream ms = new MemoryStream();
    pictureBox6.Image.Save(ms, pictureBox6.Image.RawFormat);
    byte[] img = ms.ToArray();
    MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMa");
    MySqlCommand command;
    String insertQuery = "DELETE FROM picture WHERE id=1;";
    connection.Open();
    command = new MySqlCommand(insertQuery, connection);
    command.ExecuteNonQuery();
    connection.Close();

    insertQuery = "INSERT INTO picture(id,name,quantity,address,price,Description) VALUES(@id,@name,@qth,@img,@pri,@desc)";
    connection.Open();
    command = new MySqlCommand(insertQuery, connection);

    command.Parameters.Add("@id", MySqlDbType.VarChar, 20);
    command.Parameters.Add("@name", MySqlDbType.VarChar, 200);
    command.Parameters.Add("@desc", MySqlDbType.VarChar, 20);

```

```

void Form1.pictureBox6_Click(object sender, EventArgs e)

MemoryStream ms = new MemoryStream();
pictureBox6.Image.Save(ms, pictureBox6.Image.RawFormat);
byte[] img = ms.ToArray();
MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMa");
MySqlCommand command;
String insertQuery = "DELETE FROM picture WHERE id=1;";
connection.Open();
command = new MySqlCommand(insertQuery, connection);
command.ExecuteNonQuery();
connection.Close();

insertQuery = "INSERT INTO picture(id,name,quantity,address,price,Description) VALUES(@id,@name,@qth,@img,@pri,@desc)";
connection.Open();
command = new MySqlCommand(insertQuery, connection);

command.Parameters.Add("@id", MySqlDbType.VarChar, 20);
command.Parameters.Add("@name", MySqlDbType.VarChar, 200);
command.Parameters.Add("@desc", MySqlDbType.VarChar, 20);

```

Product Details

```
9 references
public Product_Details(int pid)
{
    InitializeComponent();
    pe=p = pid;
    MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand command;
    MySqlDataAdapter da;

    String selectQuery = "SELECT* FROM picture where id=" + pid;

    command = new MySqlCommand(selectQuery, connection);

    da = new MySqlDataAdapter(command);

    DataTable table = new DataTable();

    da.Fill(table);

    NAME.Text = table.Rows[0][1].ToString();
    DESC.Text = table.Rows[0][2].ToString();
    byte[] img = (byte[])table.Rows[0][4];

    MemoryStream ms = new MemoryStream(img);
}

1 reference
private void button3_Click(object sender, EventArgs e)
{
    if(quantitybox.Text=="1" || quantitybox.Text == "2" || quantitybox.Text == "3" || quantitybox.Text == "4" || quantitybox.1
    {
        string connectionString = "datasource=127.0.0.1;port=3306;username=root;password=;database=eMart";
        string query = "UPDATE picture SET quantity='" + quantitybox.Text + "' WHERE id='"+p + "'";
        MySqlConnection databaseconnection = new MySqlConnection(connectionString);
        MySqlCommand commandDatabase = new MySqlCommand(query, databaseconnection);
        commandDatabase.CommandTimeout = 60;
        MySqlDataReader reader;
        try
        {
            databaseconnection.Open();
            reader = commandDatabase.ExecuteReader();
        }
        catch (Exception ex)
        {
            //Show any error message.
            MessageBox.Show(ex.Message);
        }

        catch (Exception ex)
        {
            //Show any error message.
            MessageBox.Show(ex.Message);
        }
        databaseconnection.Close();
        MessageBox.Show("Please Confirm Your Account");

        Confirm_Sign_In b = new Confirm_Sign_In(p);
        this.Hide();
        b.Show();
    }
    else MessageBox.Show("You can Only Buy Maximum 5 Products");
}
}
```

Sign in

```
1 reference
private void MoveToSignIn_Click(object sender, EventArgs e)
{
    if (USERNAME.Text == "muhammad14702@gmail.com" && PASSWORD.Text == "mtsstyle")
    {
        AdminHome h = new AdminHome();
        this.Hide();
        h.Show();
    }
    else MessageBox.Show("Invalid Id or Password");
}
```

Admin Sign in

```
1 reference
private void MoveToSignIn_Click(object sender, EventArgs e)
{
    string emailcheck = "{}";
    string passwordcheck = "{}";
    bool flag = false;
    MySqlConnection connection = new MySqlConnection("datasource=127.0.0.1;port=3306;username=root;password=;database=eMart");
    MySqlCommand cmd;
    MySqlDataReader mdr;

    connection.Open();


    string query = "SELECT * FROM customers WHERE email='" + USERNAME.Text + "'";
    cmd = new MySqlCommand(query, connection);

    mdr = cmd.ExecuteReader();


    if (mdr.Read())
    {
        emailcheck = mdr.GetString("email");
        passwordcheck = mdr.GetString("password");
        flag = true;
    }
}
```


Chapter 6: Screen Snippets


Admin Home




Products




Name
Price:
Desc:



Name
Price:
Desc:




Name
Price:
Desc:



Name
Price:
Desc:

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Admin Deals




eMart


[Daily Deals](#) [Home](#) [About us](#)

[Log Out](#)


SpotLight Deals




Name
Price:
Desc:



Name
Price:
Desc:




Name
Price:
Desc:

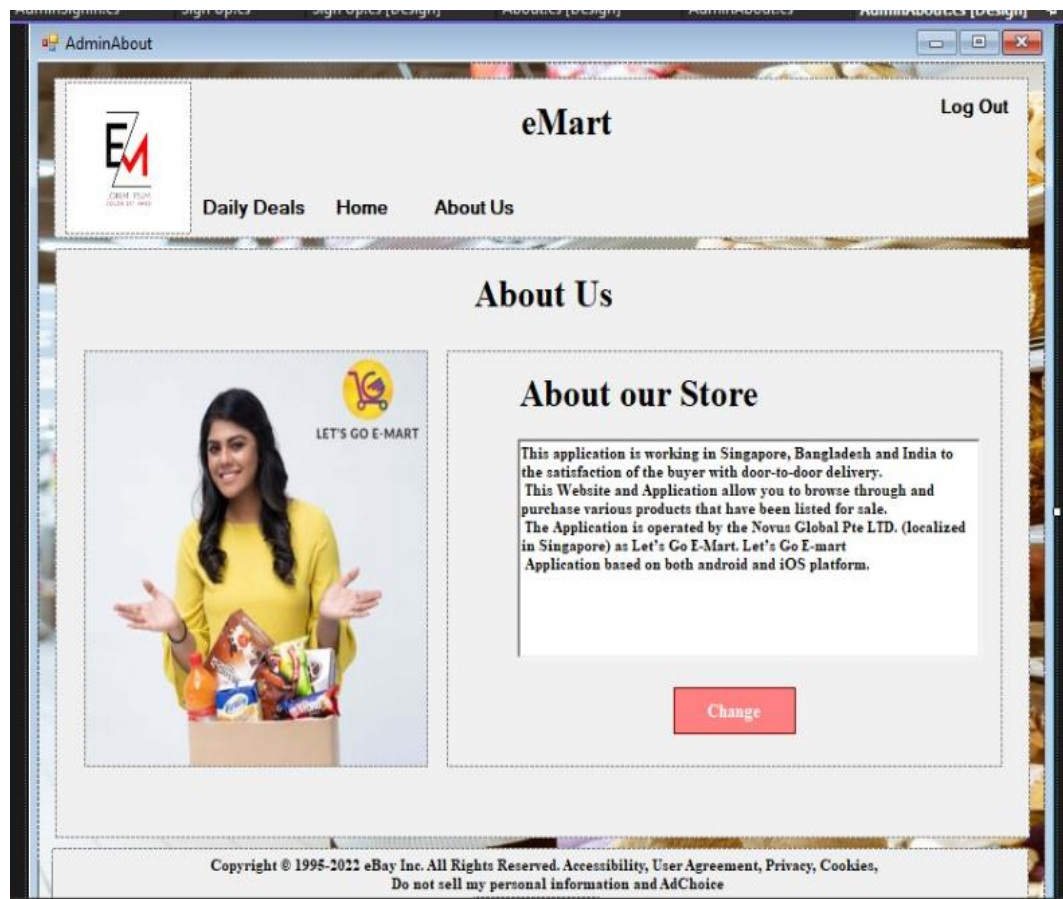


Name
Price:
Desc:

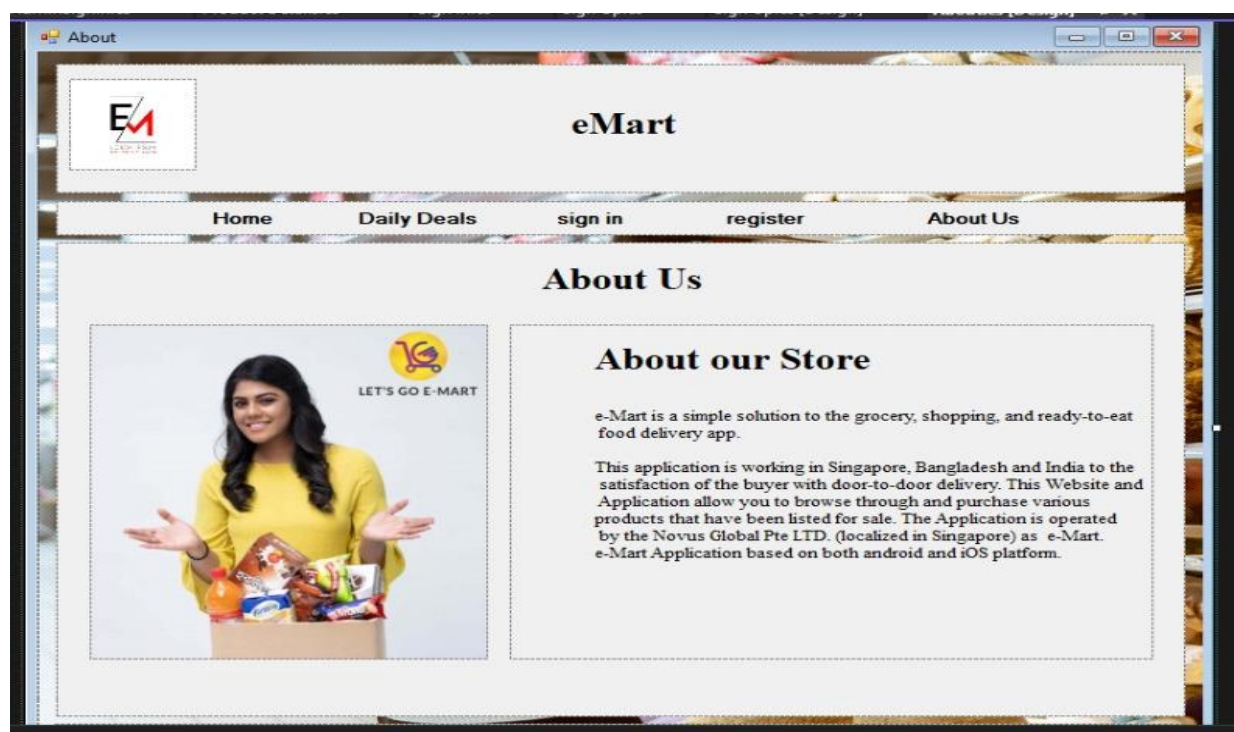
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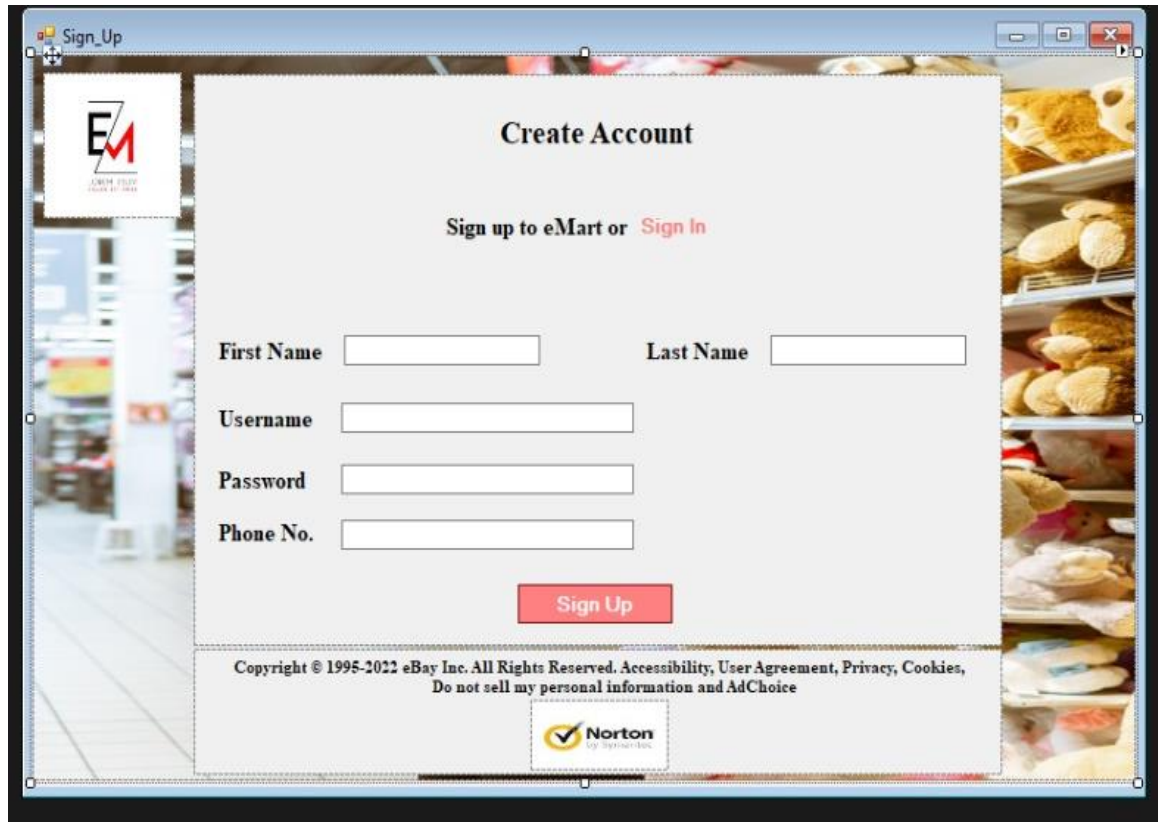
Admin About us



About us



Sign Up



The screenshot shows a web browser window titled "Sign_Up". The page has a light gray background with a white central form area. On the left, there is a logo for "EM" with the text "eMart" below it. The form is titled "Create Account" and includes the text "Sign up to eMart or [Sign In](#)". Below this, there are four input fields: "First Name", "Last Name", "Username", and "Password". A "Phone No." field is also present. A red "Sign Up" button is located below the input fields. At the bottom of the form, there is a copyright notice: "Copyright © 1995-2022 eBay Inc. All Rights Reserved. Accessibility, User Agreement, Privacy, Cookies, Do not sell my personal information and AdChoice". A Norton logo is also visible at the bottom.

Create Account

Sign up to eMart or [Sign In](#)

First Name Last Name


Username

Password

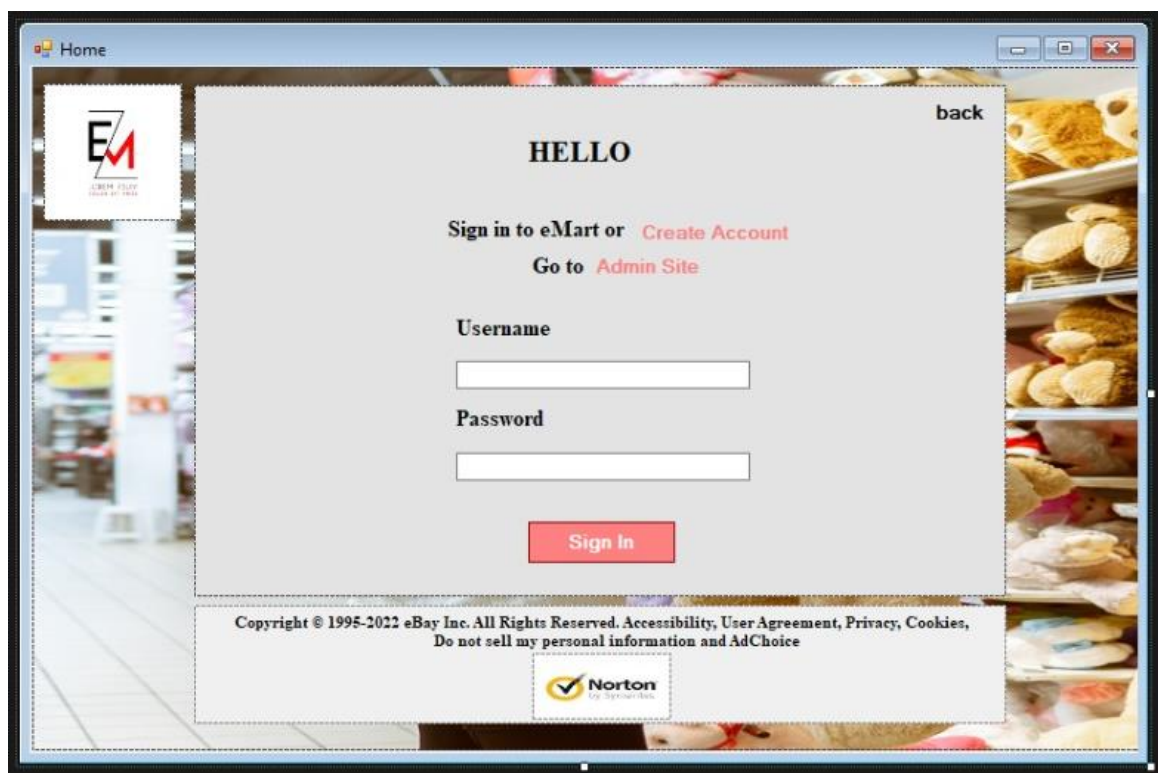
Phone No.

[Sign Up](#)

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Sign In



The screenshot shows a web browser window titled "Home". The page has a light gray background with a white central form area. On the left, there is a logo for "EM" with the text "eMart" below it. The form is titled "HELLO" and includes the text "Sign in to eMart or [Create Account](#)". Below this, there are two input fields: "Username" and "Password". A red "Sign In" button is located below the input fields. At the bottom of the form, there is a copyright notice: "Copyright © 1995-2022 eBay Inc. All Rights Reserved. Accessibility, User Agreement, Privacy, Cookies, Do not sell my personal information and AdChoice". A Norton logo is also visible at the bottom.

HELLO [back](#)

Sign in to eMart or [Create Account](#)


Go to [Admin Site](#)

Username

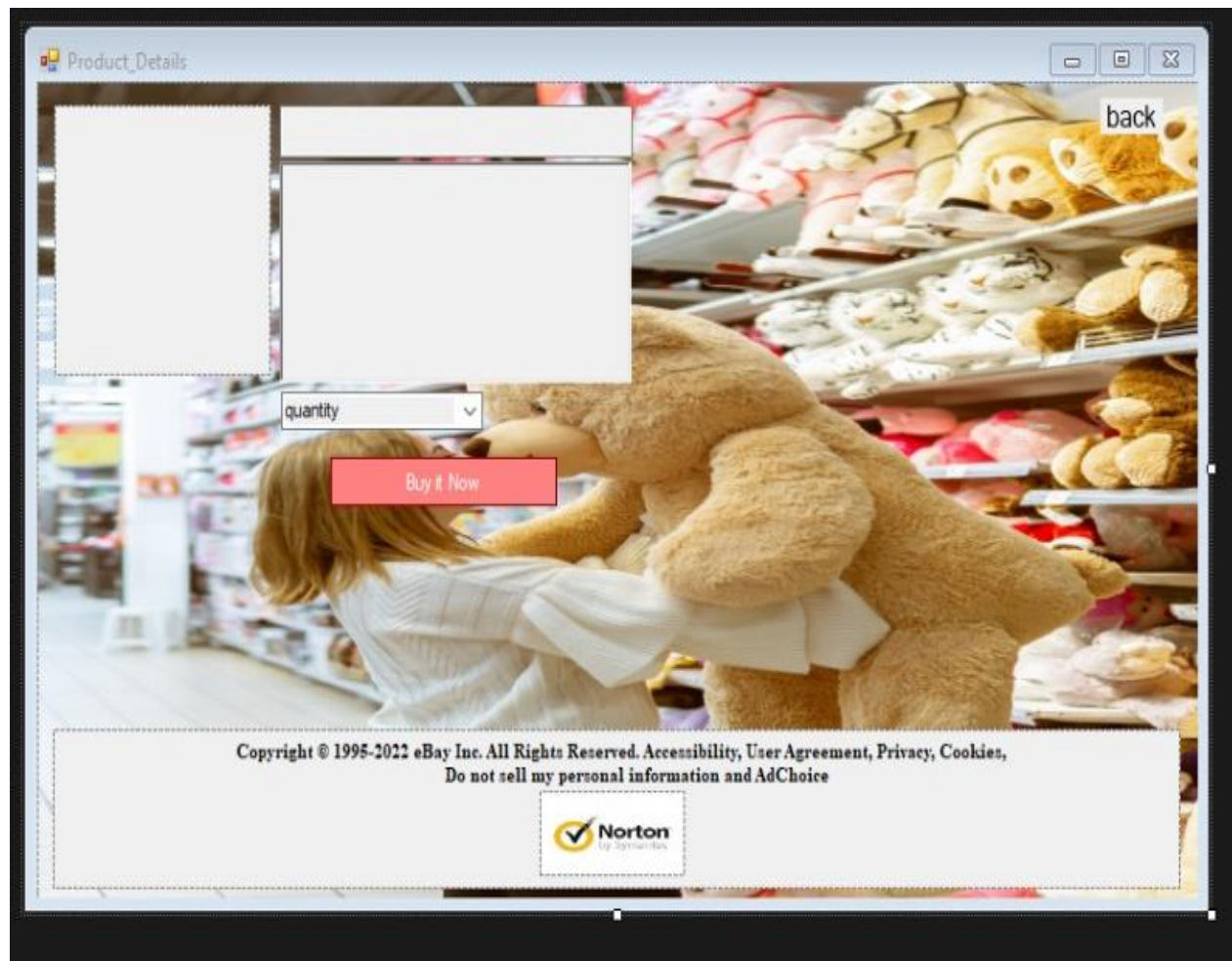
Password

[Sign In](#)

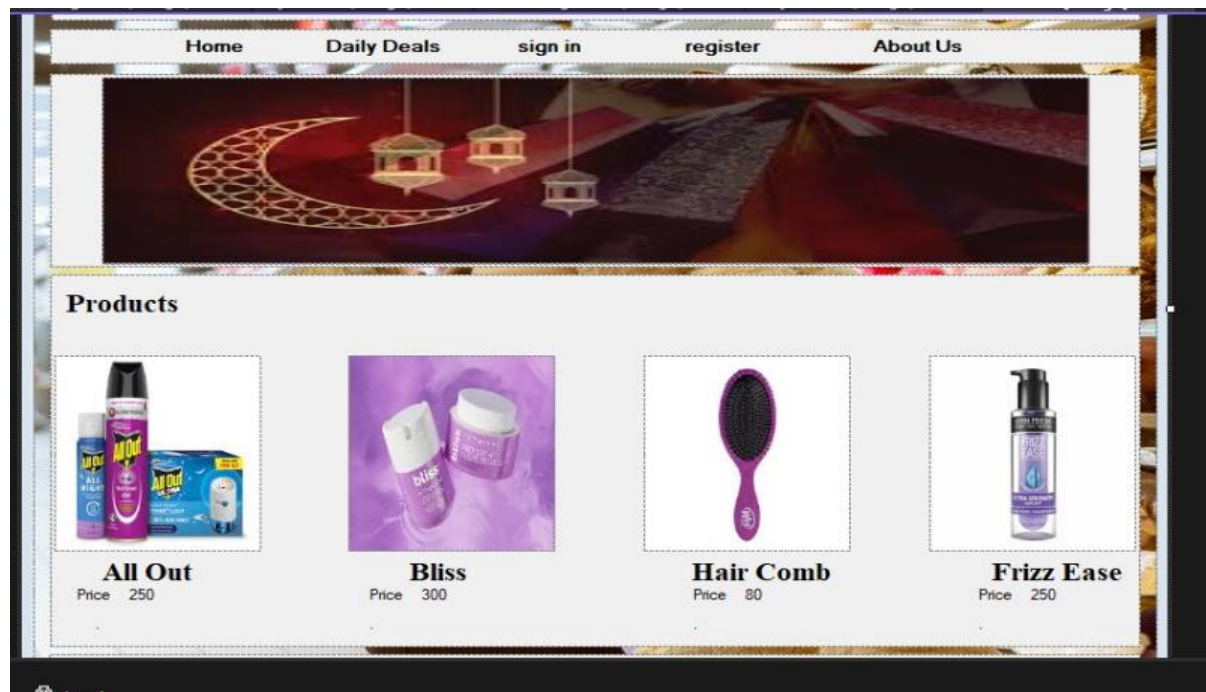
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Product Details



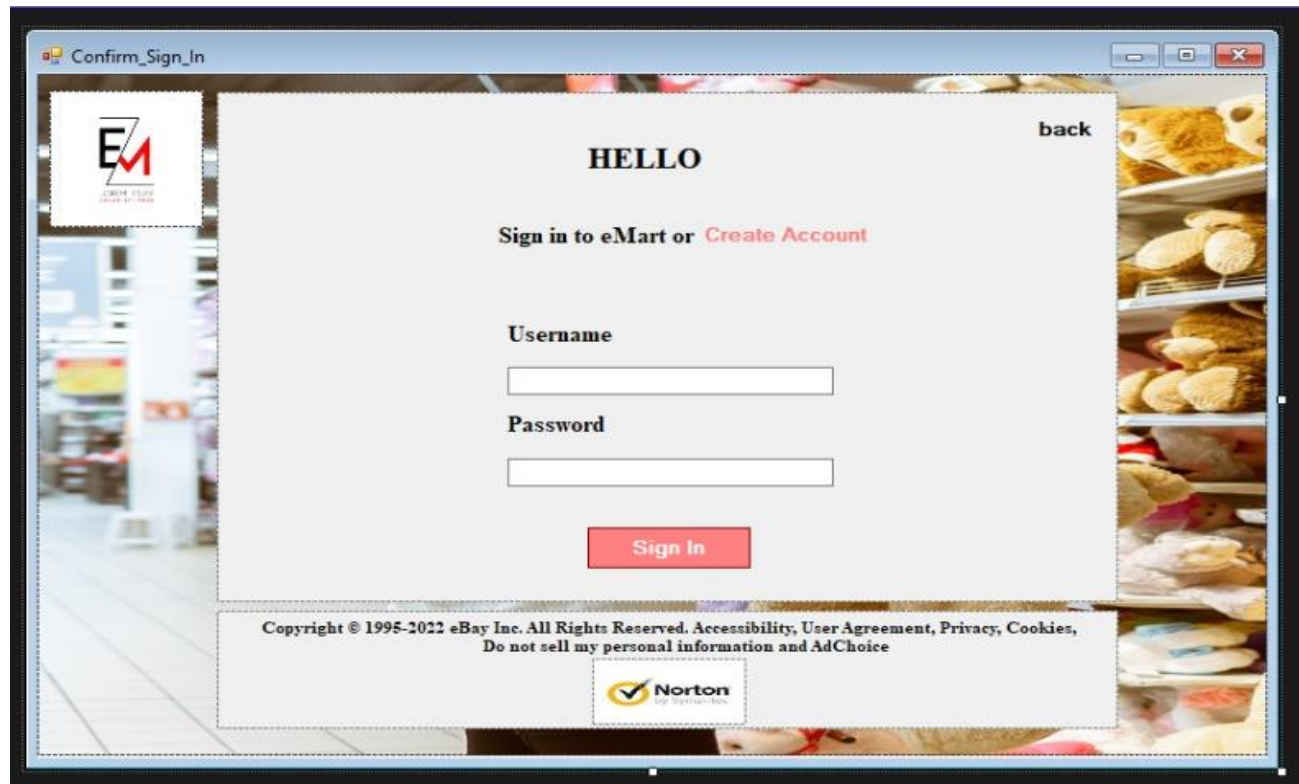
Home



Daily Deals




Confirm Sign in



Buy

Buy_Now



sign in or register

eMart

Enter Address

OK

Ship To

First Name	<input type="text"/>	Last Name	<input type="text"/>
Phone No.	<input type="text"/>		
Address	<input type="text"/>		


Quantity

Price Per Item

Total Price


Buy

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Admin Sign In

AdminSignIn



back

HELLO


Sign in to eMart Admin

Username

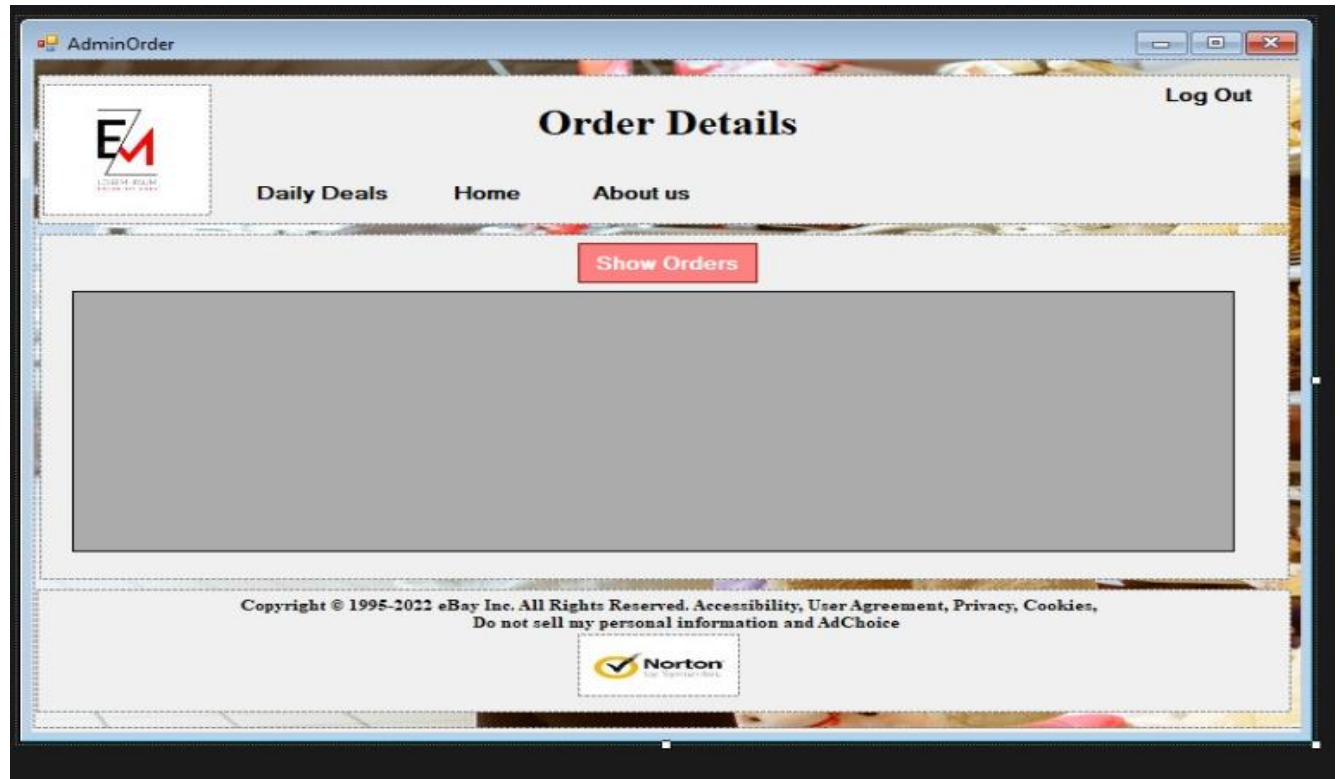
Password

Sign In

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Show Orders



Chapter 7: Design Patterns

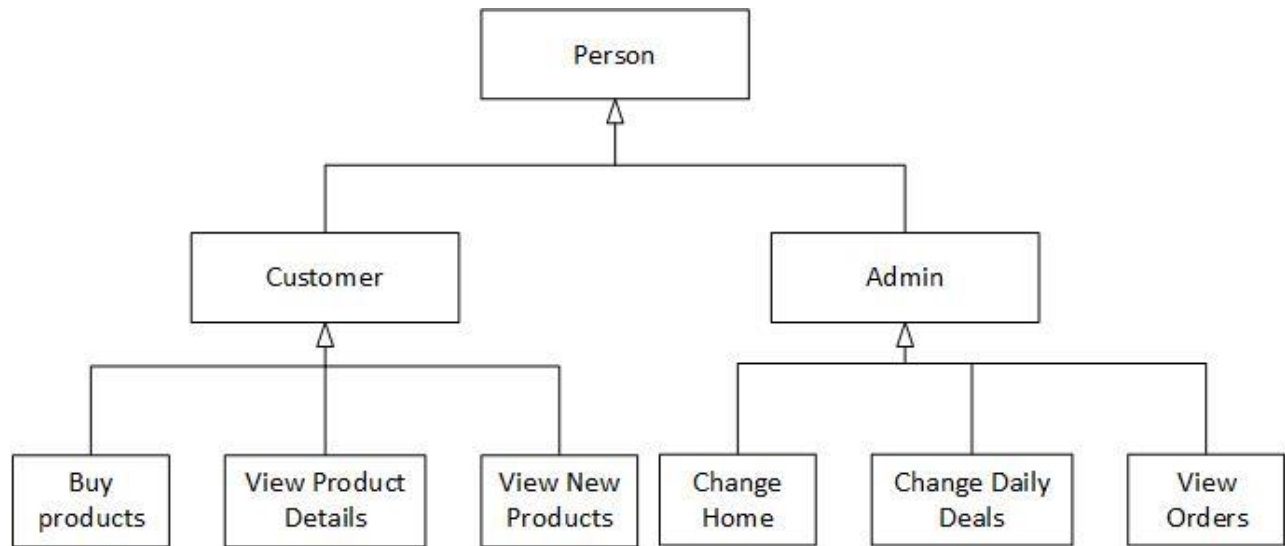
Many Design Patterns are used in this system. Following are the design patterns used in this system;

- **Player Role Pattern**
- **Singleton Pattern**
- **Observer Pattern**

Player Role Pattern

Customers and Admins are playing multiple roles so player role pattern can be successfully applied on this system.

Following diagram clearly shows the players and their roles;

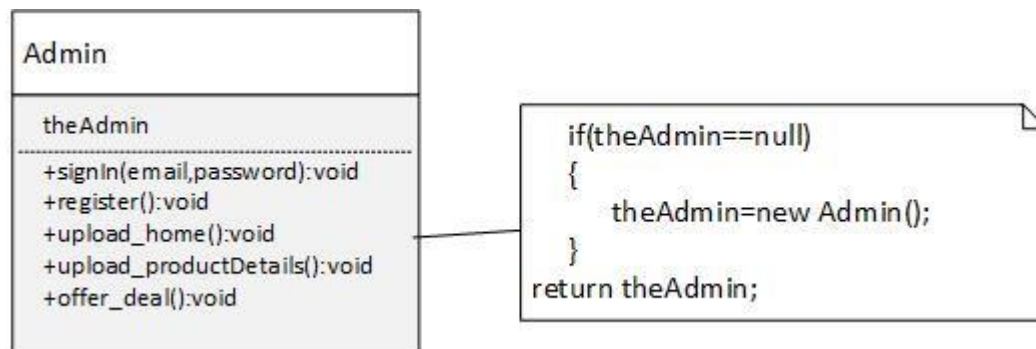


Singleton Pattern

Singleton pattern tells us that only one instance should exist.

So, in our system, only one Admin class instance will create because one system will be managed by only one Admin.

Following is the diagram of the singleton pattern according to our system;

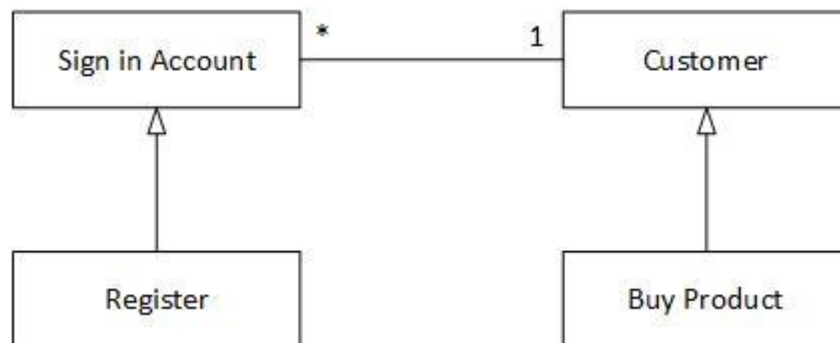


Observer Pattern

According to Observer pattern, if one class is used then other class must be used.

In our system, if we have to buy the product then we must login to the account that shows that buy class is used if sign in class is used.

Following is the diagram of Observer pattern according to our system;



Chapter 8: Conclusion

At the end, we want to thanks to our teacher “**Mr. Zeeshan Ramzan**” who allowed us consent to work on such a project that enhanced our knowledge. This project compels us to discover more about c# because it has very demand in future. Inshaa Allah we will research in this field by using our present knowledge and will come to know about more things.

***** **JAZAK ALLAH!!!** *****