



WINDOWS FORM APPLICATION

Employees



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Description:

It is an admin control panel that lets the admin to update, delete and insert a new employee in one of two factories the company has which are avcilar and beylikduzu and it contains a nice dashboard that shows how many employees are still pending and how many employees is in each of the factory.

Use Case Scenario:

First thing the admin logs in to the program(admins are only added using the database)

After the admin has logged in successfully he must be able to see a dashboard tab and an employees tab

In the dashboard he will be able to see some statistics about his employees in 2 addresses which they are Beylikduzu and Avcilar.

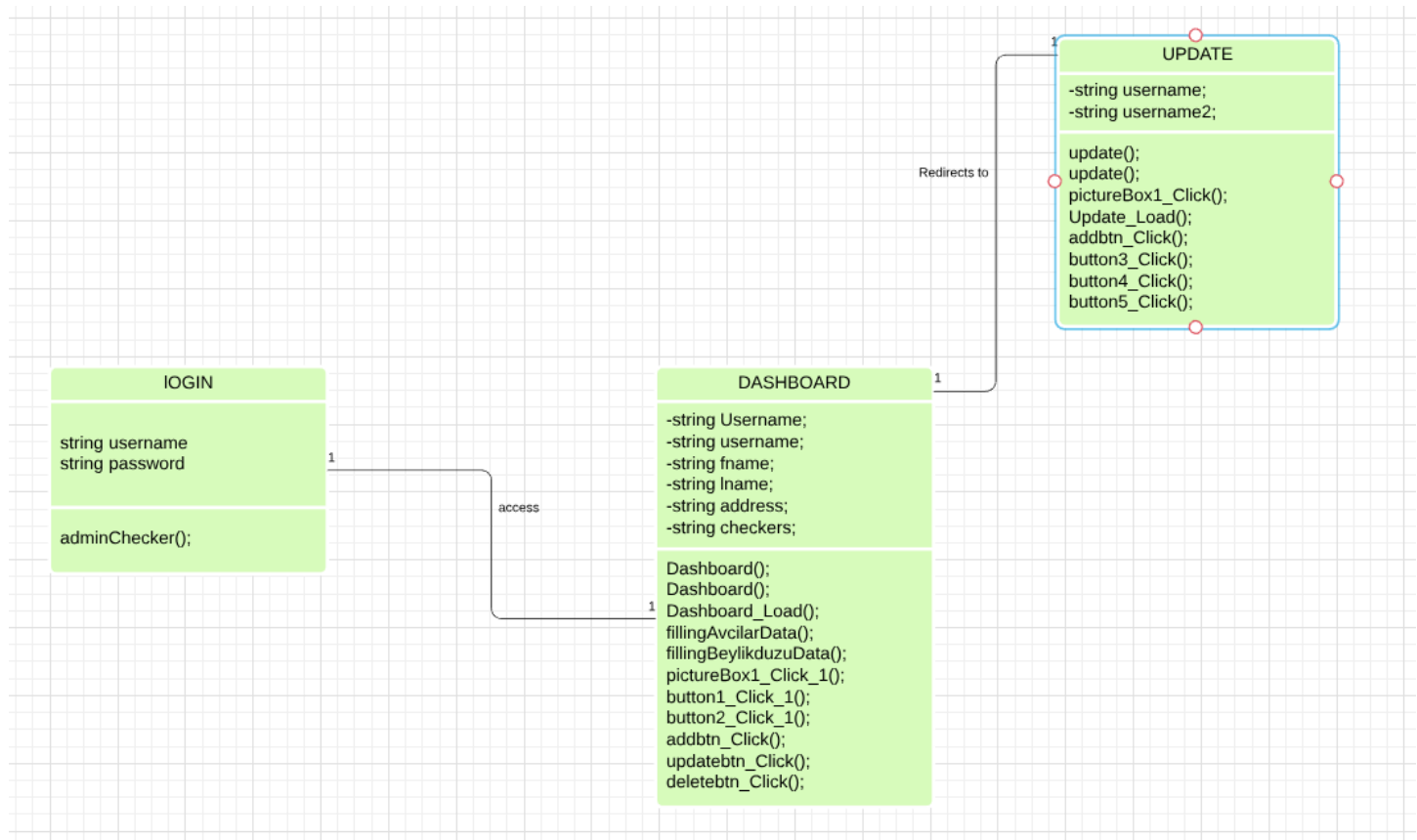
Our System must contain an approve checker which means if a customer is not available now we can disapprove him or if he was not added by the admin somehow he will be set to 0 by default.

If the admin open the employees tab he will be able to see all data related to employees and he will be able to delete data, update data and insert new data.

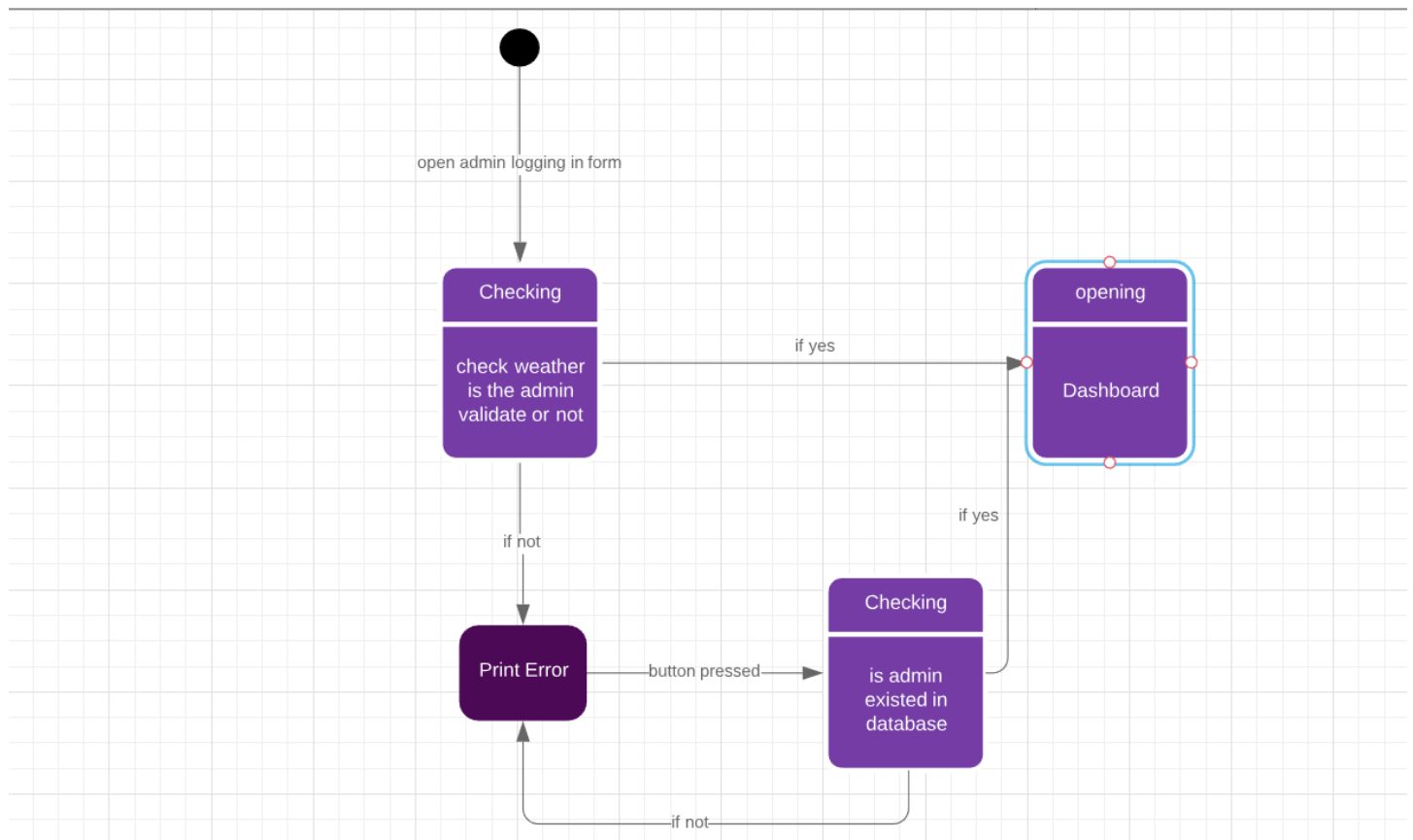
If the user chooses to update data a new form will be opened and he will be asked to enter the username of the row he wants to update and our system will retrieve all data from the database and insert it into textboxes.

UML DIAGRAMS:

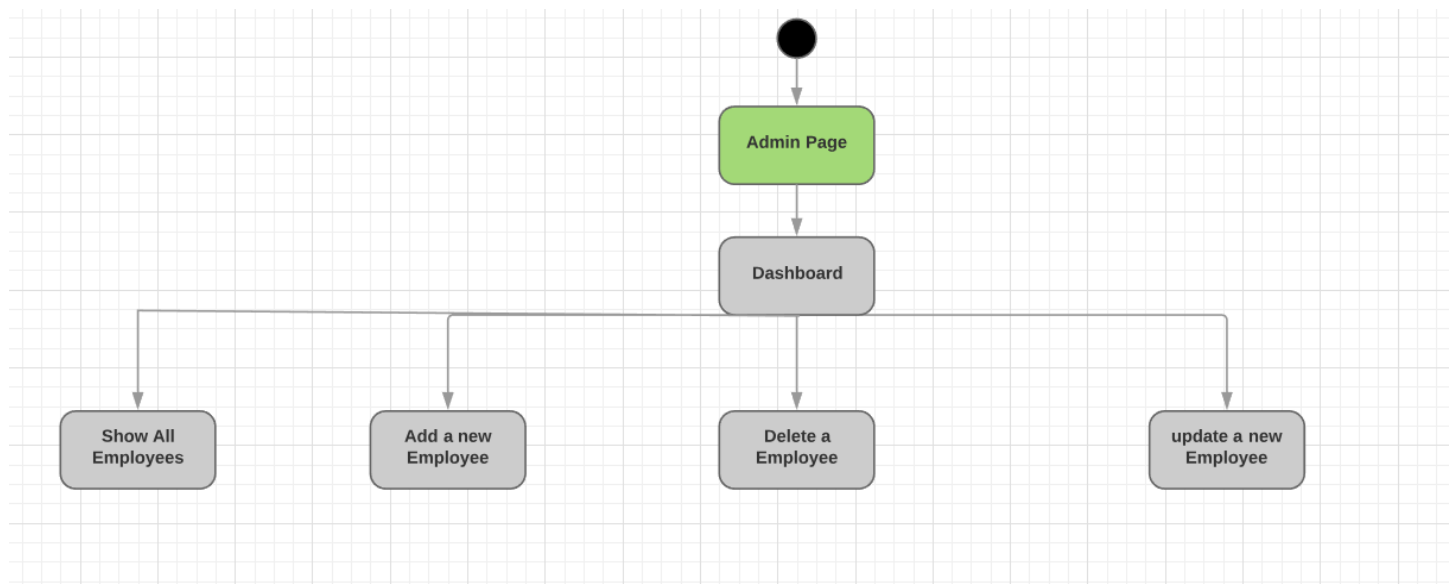
Class Diagram:



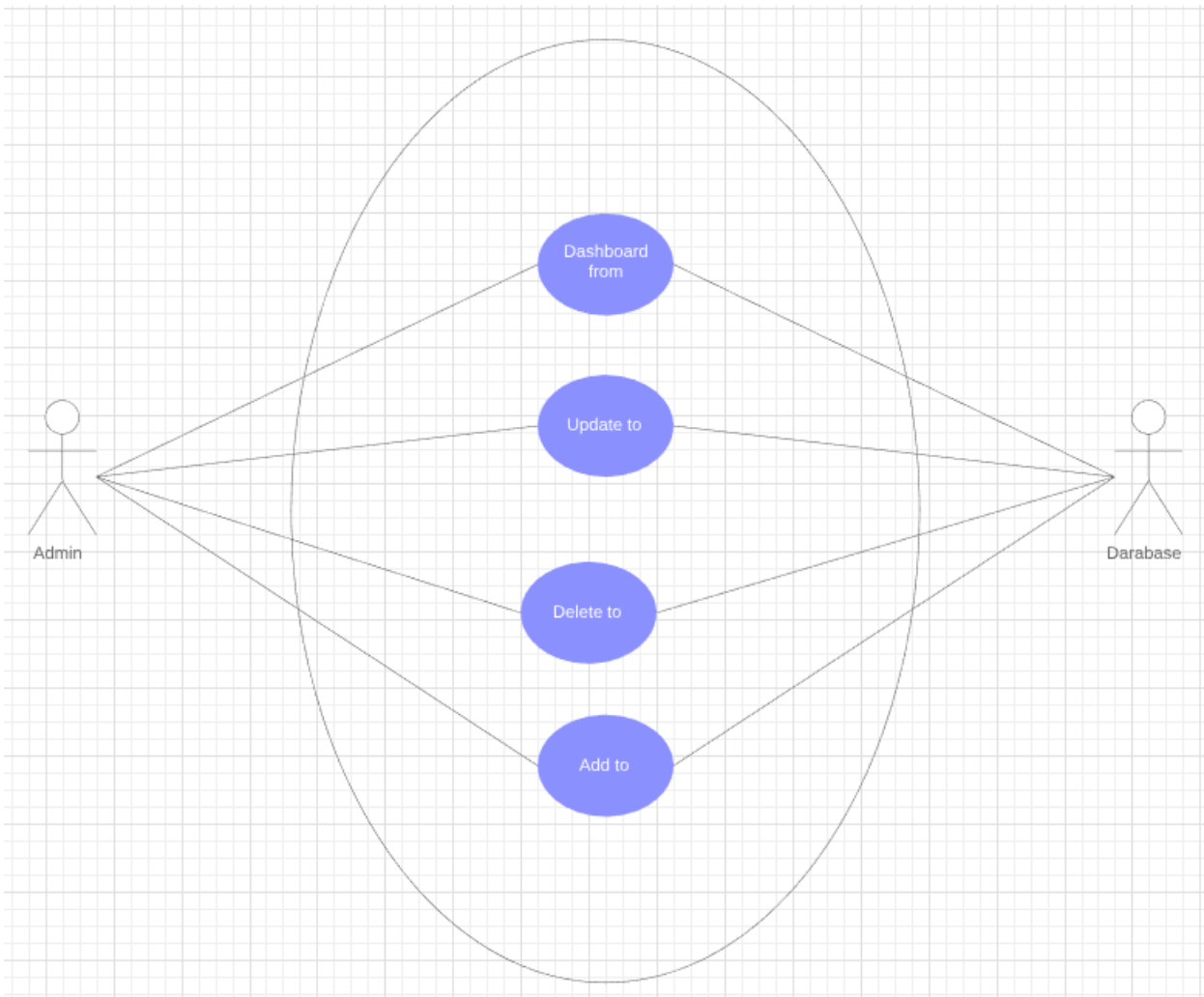
BASIC STATE DIAGRAM:



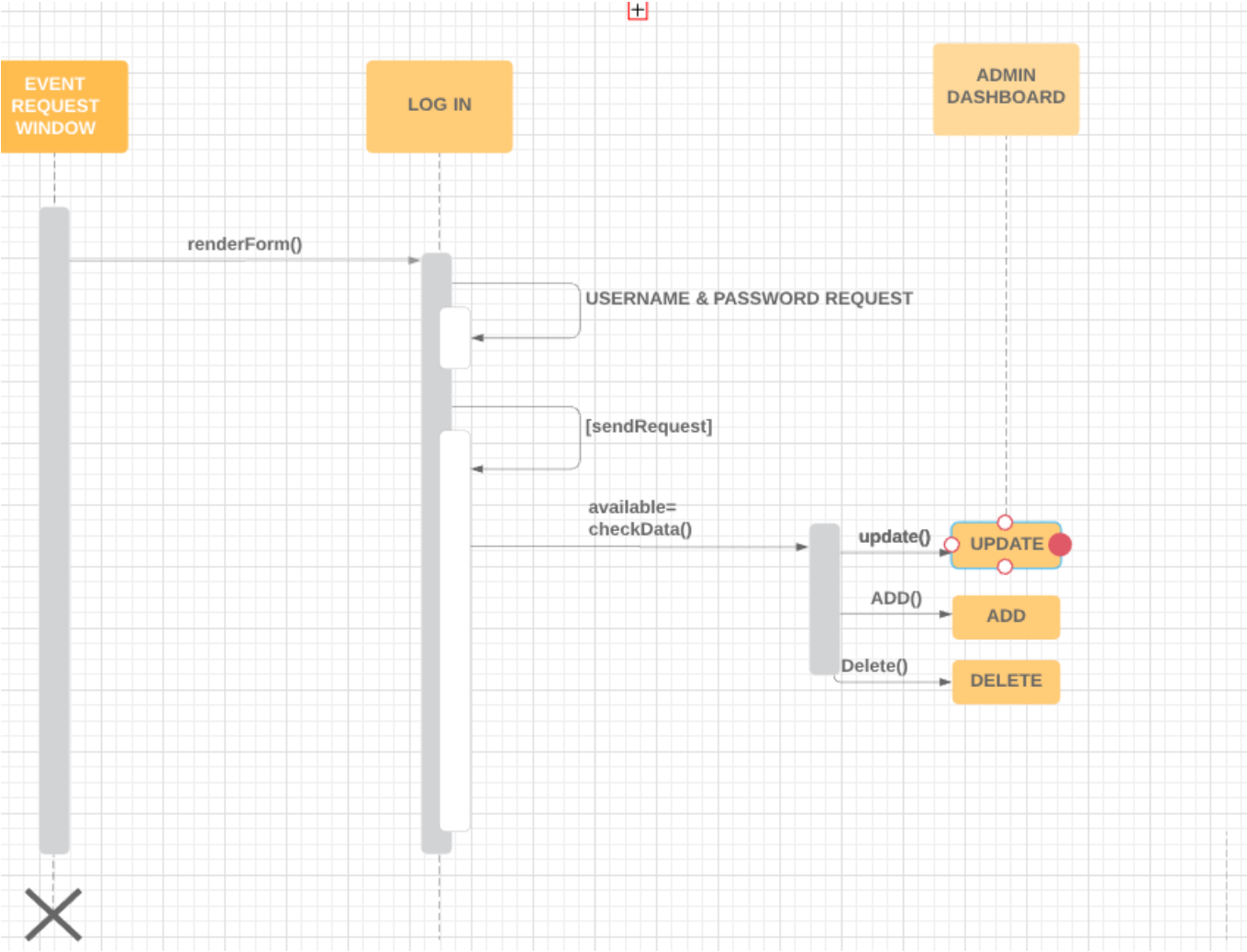
Basic Activity Diagram:



USE CASE DIAGRAM:



BASIC SEQUENCE DIAGRAM:



CODE:

ADMIN LOGIN PAGE:

```
1 using System;
2 using System.Drawing;
3 using System.Windows.Forms;
4 using System.Data.OleDb;
5
6 namespace WindowsFormsAppProject
7 {
8     public partial class Form1 : Form
9     {
10         private string username;
11         private string password;
12
13         public Form1()
14         {
15             InitializeComponent();
16
17         }
18
19         private void Form1_Load(object sender, EventArgs e)
20         {
21             ExitButton.FlatStyle = FlatStyle.Flat;
22             ExitButton.FlatAppearance.BorderSize = 0;
23             textBox1.Text = "username";
24             passtxt.Text = "password";
25         }
26
27         private void button1_Click(object sender, EventArgs e)
28         {
29             System.Windows.Forms.Application.Exit();
30         }
31
32         //exit button customization
33         private void button1_MouseLeave(object sender, EventArgs e)
34         {
35             ExitButton.BackColor = Color.Transparent;
36         }
37
38         private void ExitButton_MouseEnter(object sender, EventArgs e)
39         {
40             ExitButton.BackColor = Color.FromArgb(41, 53, 65);
41         }
42     }
43 }
```

```
43 //log in button customization
44 private void logIn_MouseEnter(object sender, EventArgs e)
45 {
46     logIn.BackColor = Color.FromArgb(41, 53, 65);
47     logIn.ForeColor = Color.White;
48 }
49
50 private void logIn_MouseLeave(object sender, EventArgs e)
51 {
52     logIn.BackColor = Color.Transparent;
53     logIn.ForeColor = Color.Black;
54 }
55
56 private void usernametxt_Enter(object sender, EventArgs e)
57 {
58     if(textBox1.Text == "username")
59     {
60         textBox1.Text = "";
61         textBox1.ForeColor = Color.Black;
62     }
63 }
64
65 private void usernametxt_Leave(object sender, EventArgs e)
66 {
67     if(textBox1.Text == "")
68     {
69         textBox1.Text = "username";
70         textBox1.ForeColor = Color.DarkGray;
71     }
72 }
73
74 private void passtxt_Enter(object sender, EventArgs e)
75 {
76     if (passtxt.Text == "password")
77     {
78         passtxt.Text = "";
79         passtxt.ForeColor = Color.Black;
80     }
81 }
```

```

83 private void passtxt_Leave(object sender, EventArgs e)
84 {
85     if (passtxt.Text == "")
86     {
87         passtxt.Text = "password";
88         passtxt.ForeColor = Color.DarkGray;
89     }
90 }
91
92 private void logIn_Click(object sender, EventArgs e)
93 {
94     Username = textBox1.Text;
95     Password = passtxt.Text;
96     OleDbConnection con = OleDbConnection1;
97     con.Open();
98     string query = "SELECT * FROM Users WHERE username = '" + Username + "' AND password = '" + Password + "' AND userType = True";
99     OleDbCommand cmd = new OleDbCommand(query, con);
100     OleDbDataReader dr = cmd.ExecuteReader();
101     if (dr.Read() == true)
102     {
103         this.Hide();
104         Dashboard d1 = new Dashboard(Username);
105         d1.ShowDialog();
106     }
107     else
108     {
109         MessageBox.Show("Invalid Credentials, Please Re-Enter");
110     }
111     con.Close();
112 }
113
114 public string Username
115 {
116     get
117     {
118         return this.username;
119     }
120     set
121     {
122         this.username = value;
123     }
124 }
125
126 public string Password
127 {
128     get
129     {
130         return this.password;
131     }
132     set
133     {
134         this.password = value;
135     }
136 }
137
138 private void button3_Click(object sender, EventArgs e)
139 {
140     System.Windows.Forms.Application.Exit();
141 }
142
143 }
144

```

DASHBOARD PAGE:

```
1  using System;
2  using System.Drawing;
3  using System.Data.OleDb;
4  using System.Windows.Forms;
5  using System.Data;
6  namespace WindowsFormsAppProject
7  {
8      public partial class Dashboard : Form
9      {
10         string Username;
11         string username;
12         string fname;
13         string lname;
14         string address;
15         string checkers;
16         public Dashboard(string username)
17         {
18             InitializeComponent();
19             Username = username;
20         }
21
22         public Dashboard(string username, string x)
23         {
24             InitializeComponent();
25             Username = username;
26             if(x == "from update")
27             {
28                 checkers = x;
29                 panel5.Visible = true;
30                 label18.Visible = true;
31             }
32         }
33     }
34 }
```

```

34 private void Dashboard_Load(object sender, EventArgs e)
35 {
36     this.CenterToScreen();
37     if (Username == null)
38     {
39         this.Hide();
40         Form1 f = new Form1();
41         f.ShowDialog();
42     }
43
44
45     comboBox1.Items.Add("Beylikduzu");
46     comboBox1.Items.Add("Avcilar");
47     styling();
48     fillingAvcilarData();
49     fillingBeylikduzuData();
50     if(checkers != "from update")
51     {
52         panel5.Visible = false;
53         label18.Visible = false;
54     }
55     label16.Text = Username;
56
57     OleDbConnection con = new OleDbConnection();
58     con = oleDbConnection1;
59     string query = "select * from Users where userType = false";
60
61     OleDbDataAdapter da = new OleDbDataAdapter(query,con);
62     DataTable d = new DataTable();
63     da.Fill(d);
64     dataGridView1.DataSource = d;
65     con.Close();
66 }
67
68 private void styling()
69 {
70
71 }
72

```

```
73 private void fillingAvcilarData()
74 {
75     OleDbConnection con = OleDbConnection1;
76     con.Open();
77     string query = "SELECT * FROM Users WHERE address = 'Avcilar' AND RegStatus = True AND userType = False";
78     OleDbCommand cmd = new OleDbCommand(query, con);
79     int counter = 0;
80     OleDbDataReader dr = cmd.ExecuteReader();
81     while (dr.Read())
82     {
83         counter++;
84     }
85     label8.Text = counter.ToString();
86
87     query = "SELECT * FROM Users WHERE address = 'Avcilar' AND RegStatus = False AND userType = False";
88     cmd = new OleDbCommand(query, con);
89     counter = 0;
90     dr = cmd.ExecuteReader();
91     while (dr.Read())
92     {
93         counter++;
94     }
95     label9.Text = counter.ToString();
96     con.Close();
97 }
98
99 private void fillingBeylikduzuData()
100 {
101     OleDbConnection con = OleDbConnection1;
102     con.Open();
103     string query = "SELECT * FROM Users WHERE address = 'Beylikduzu' AND RegStatus = True AND userType = False";
104     OleDbCommand cmd = new OleDbCommand(query, con);
105     int counter = 0;
106     OleDbDataReader dr = cmd.ExecuteReader();
107     while (dr.Read())
108     {
109         counter++;
110     }
111     label10.Text = counter.ToString();
112
113     query = "SELECT * FROM Users WHERE address = 'Beylikduzu' AND RegStatus = False AND userType = False";
114     cmd = new OleDbCommand(query, con);
115     counter = 0;
116     dr = cmd.ExecuteReader();
117     while (dr.Read())
118     {
119         counter++;
120     }
121     label11.Text = counter.ToString();
122     con.Close();
123 }
124
```

```
125 private void addbtn_MouseEnter(object sender, EventArgs e)
126 {
127     addbtn.ForeColor = Color.White;
128 }
129
130 private void addbtn_MouseLeave(object sender, EventArgs e)
131 {
132     addbtn.ForeColor = Color.Black;
133 }
134
135 private void updatebtn_MouseEnter(object sender, EventArgs e)
136 {
137     updatebtn.ForeColor = Color.White;
138 }
139
140 private void updatebtn_MouseLeave(object sender, EventArgs e)
141 {
142     updatebtn.ForeColor = Color.Black;
143 }
144
145 private void deletebtn_MouseLeave(object sender, EventArgs e)
146 {
147     deletebtn.ForeColor = Color.Black;
148 }
149
150 private void deletebtn_MouseEnter(object sender, EventArgs e)
151 {
152     deletebtn.ForeColor = Color.White;
153 }
154
155 private void approvebtn_MouseLeave(object sender, EventArgs e)
156 {
157     approvebtn.ForeColor = Color.Black;
158 }
159
160 private void approvebtn_MouseEnter(object sender, EventArgs e)
161 {
162     approvebtn.ForeColor = Color.White;
163 }
164
165
166
```

```

168 private void pictureBox1_Click_1(object sender, EventArgs e)
169 {
170     Form1 f = new Form1();
171     this.Hide();
172     f.ShowDialog();
173 }
174
175 private void button1_Click_1(object sender, EventArgs e)
176 {
177     panel5.Visible = false;
178     label18.Visible = false;
179 }
180
181 private void button2_Click_1(object sender, EventArgs e)
182 {
183     panel5.Visible = true;
184     label18.Visible = true;
185 }
186
187 private void button3_Click(object sender, EventArgs e)
188 {
189     System.Windows.Forms.Application.Exit();
190 }

```

```

192 private void addbtn_Click(object sender, EventArgs e)
193 {
194     int checked1 = 0;
195     if (checkBox1.Checked) {
196         checked1 = 1;
197     }
198
199     username = textBox3.Text;
200     fname = textBox1.Text;
201     lname = textBox2.Text;
202     address = comboBox1.GetItemText(comboBox1.SelectedItem);
203     OleDbConnection con = OleDbConnection1;
204     con.Open();
205
206     string query = "INSERT INTO Users(fname,lname,username,address,RegStatus,password) VALUES('" + fname + "','" + lname + "','" + username + "','" + address + "','" + checked1 + "')";
207     OleDbCommand cmd = new OleDbCommand(query, con);
208     int result = cmd.ExecuteNonQuery();
209     if (result > 0)
210     {
211         MessageBox.Show("Employee inserted");
212     }
213     else
214     {
215         MessageBox.Show("Employee was not inserted");
216     }
217     con.Close();
218 }
219
220 private void updatebtn_Click(object sender, EventArgs e)
221 {
222     this.Hide();
223     Update upad = new Update(Username);
224     upad.ShowDialog();
225 }
226
227 private void deletebtn_Click(object sender, EventArgs e)
228 {
229     this.Hide();
230     Update u = new Update(Username, "Deleting");
231     u.ShowDialog();
232 }
233 }
234

```


Update & delete page:

```
1  using System;
2  using System.Windows.Forms;
3  using System.Data.OleDb;
4
5  namespace WindowsFormsAppProject
6  {
7      public partial class Update : Form
8      {
9          string Username;
10         string username2;
11         public Update(string username)
12         {
13             InitializeComponent();
14             Username = username;
15         }
16         public Update(string username, string labelt)
17         {
18             InitializeComponent();
19             Username = username;
20             label18.Text = labelt;
21         }
22
23         private void pictureBox1_Click(object sender, EventArgs e)
24         {
25             this.Hide();
26             Form1 f = new Form1();
27             f.ShowDialog();
28         }
29
30         private void Update_Load(object sender, EventArgs e)
31         {
32             this.CenterToScreen();
33             if (Username == null)
34             {
35                 this.Hide();
36                 Form1 f = new Form1();
37                 f.ShowDialog();
38             }
39             label16.Text = Username;
40             comboBox1.Items.Add("Beylikduzu");
41             comboBox1.Items.Add("Avcilar");
42         }
43     }
```

```

44 private void addbtn_Click(object sender, EventArgs e)
45 {
46     OleDbConnection con = new OleDbConnection();
47     con = oleDbConnection1;
48     username2 = textBox4.Text;
49     string selectSql = "select * from Users where username = '" + textBox4.Text + "'";
50     OleDbCommand cmd = new OleDbCommand(selectSql, con);
51     try
52     {
53         con.Open();
54
55         using (OleDbDataReader read = cmd.ExecuteReader())
56         {
57             while (read.Read())
58             {
59                 textBox1.Text = (read["fname"].ToString());
60                 textBox2.Text = (read["lname"].ToString());
61                 textBox3.Text = (read["username"].ToString());
62
63                 if (read["address"].ToString() == "Avcilar")
64                 {
65                     comboBox1.SelectedIndex = 0;
66                 }
67                 else
68                 {
69                     comboBox1.SelectedIndex = 1;
70                 }
71
72                 if(read["RegStatus"].ToString() == "0")
73                 {
74                     checkBox1.Checked = false;
75                 }
76                 else
77                 {
78                     checkBox1.Checked = true;
79                 }
80             }
81         }
82     }
83     finally
84     {
85         con.Close();
86     }
87 }

```

```

90 private void button3_Click(object sender, EventArgs e)
91 {
92     System.Windows.Forms.Application.Exit();
93 }
94
95 private void button4_Click(object sender, EventArgs e)
96 {
97     string fname = textBox1.Text;
98     string lname = textBox2.Text;
99     string username = textBox3.Text;
100    string address = comboBox1.GetItemText(comboBox1.SelectedItem);
101    int regstatus = 0;
102    if (checkBox1.Checked)
103        regstatus = 1;
104    else
105        regstatus = 0;
106
107    OleDbConnection con = new OleDbConnection();
108    con = OleDbConnection1;
109    con.Open();
110    string selectSql = "UPDATE Users SET fname='" + fname + "',lname='" + lname + "',username='" + username + "',address='" + address + "',RegStatus ='" + regstatus + "'WHERE username";
111    OleDbCommand cmd = new OleDbCommand(selectSql, con);
112    int result = cmd.ExecuteNonQuery();
113    if (result > 0)
114    {
115        MessageBox.Show("data was updated successfully");
116    }
117    else
118    {
119        MessageBox.Show("data was not found");
120    }
121    con.Close();
122 }

```

```

123
124 private void button5_Click(object sender, EventArgs e)
125 {
126     OleDbConnection con = new OleDbConnection();
127     con = OleDbConnection1;
128     con.Open();
129     string selectSql = "DELETE FROM Users WHERE username = '" + textBox4.Text + "'";
130     OleDbCommand cmd = new OleDbCommand(selectSql, con);
131     int result = cmd.ExecuteNonQuery();
132     if (result > 0)
133     {
134         MessageBox.Show("data was deleted successfully");
135     }
136     else
137     {
138         MessageBox.Show("data was not found");
139     }
140     con.Close();
141 }
142
143 private void button1_Click(object sender, EventArgs e)
144 {
145     this.Hide();
146     Dashboard d = new Dashboard(Username);
147     d.ShowDialog();
148 }
149
150 private void button2_Click(object sender, EventArgs e)
151 {
152     this.Hide();
153     Dashboard d = new Dashboard(Username, "from update");
154     d.ShowDialog();
155 }
156 }
157 }
158

```


Output:

Employees

Admin log in

username

↶

x

Admin Log In

amoraalbahra

log in

Employees

Dashboard

amoraalbahra

↶

x

Dashboard

Employees

Avcilar Employees

Employees

0

Pending Employees

1

Beylikduzu Employees

Employees

0

Pending Employees

0

Employees

Dashboard

Employees

Operations

amoraalbahra

fname

mhd

username

mhdbahra

lname

omar

address

Beylikduzu

Approve

Add

update

Approve

Employee inserted

OK

ID	fname	lname	password	address	userType	RegStatu
2	mohammed	bahra	56	Avcilar	<input type="checkbox"/>	0
11	omar	bahra	omarbahra3	Beylikduzu	<input type="checkbox"/>	1

After pressing ok

Employees

Dashboard

Employees

Operations

amoraalbahra

fname

mhd

username

mhdbahra

lname

omar

address

Beylikduzu

Approve

Add

update

Delete

Approve

ID	fname	lname	username	password	address	userType	RegStatu
2	mohammed	bahra	mohamme...	123456	Avcilar	<input type="checkbox"/>	0
11	omar	bahra	omarbahra3		Beylikduzu	<input type="checkbox"/>	1
14	mhd	omar	mhdbahra		Beylikduzu	<input type="checkbox"/>	1

Username

Search

Delete

fname

lname

☒ Approve

Save

username

address

Employees

Updating

amoraalbahra

⌂

×

Dashboard

Employees

Username

mhdbahra

Search

Delete

fname

mhd

lname

omar bahra

☒ Approve

Save

username

mhdalbahra

address

Beylikduzu

Employees

Updating

amoraalbahra

⌂

×

Dashboard

Employees

Username

mhdbahra

Search

Delete

fname

mhd

lname

omar bahra

☒ Approve

Save

username

mhdalbahra

address

Beylikduzu

×

data was updated successfully

OK

After pressing ok it redirects to employees table:

Employees

Operations

mhdalbahra

⌂ x

Dashboard

Employees

fname

username

lname

address

☒ Approve

Add

update

Delete

Approve

	ID	fname	lname	username	password	address	userType	RegStatu
▶	2	mohammed	bahra	mohamme...	123456	Avclar	<input type="checkbox"/>	0
	11	omar	bahra	omarbahra3		Beylikduzu	<input type="checkbox"/>	1
	14	mhd	omar bahra	mhdalbahra		Beylikduzu	<input type="checkbox"/>	1

Employees

Deleting

amoraalbahra

⌂ x

Dashboard

Employees

Username

mhdalbahra

Search

Delete

fname

lname

☒ Approve

Save

username

address

data was deleted successfully

OK

Username

Search

Delete

fname

lname

☒ Approve

Save

username

address

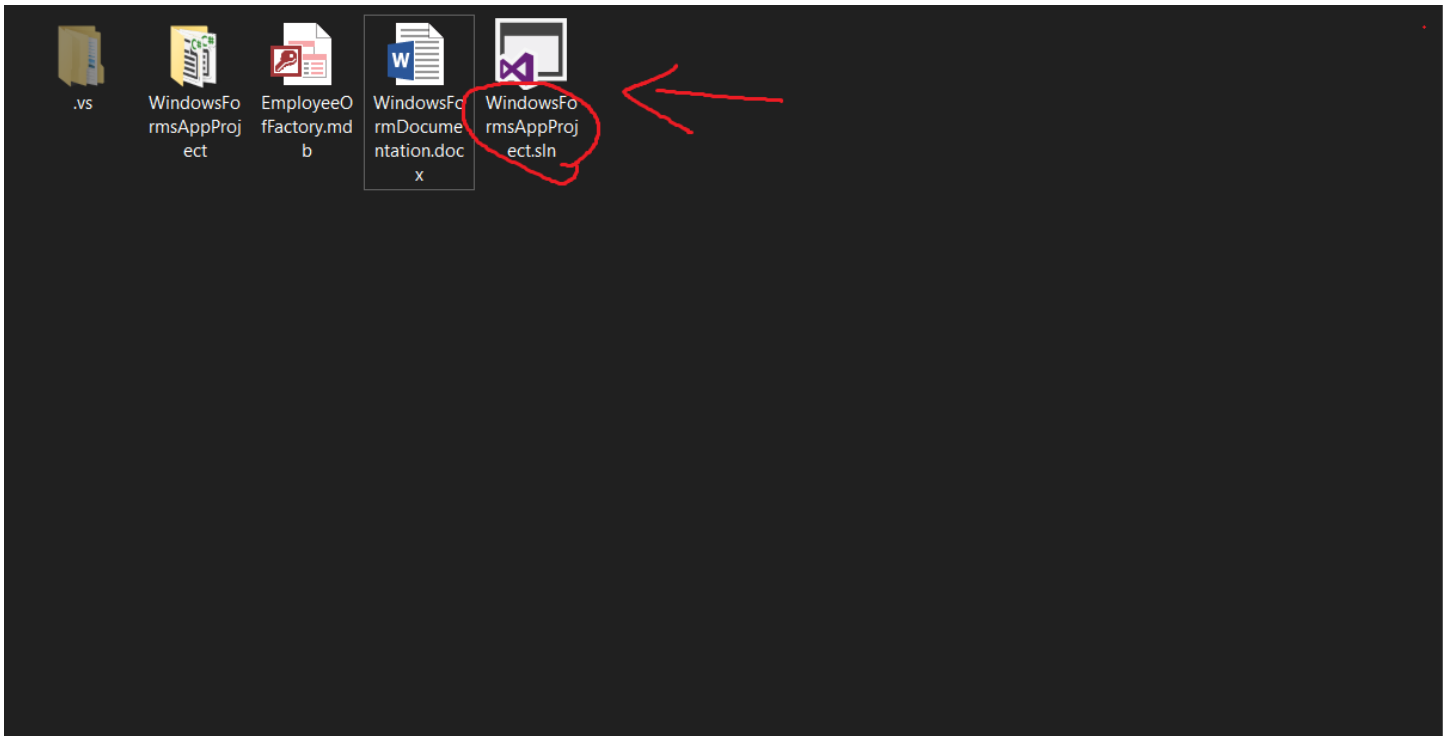
User guideline:

System requirements:

A computer that runs a windows OS has visual studio installed with the c# compiler.

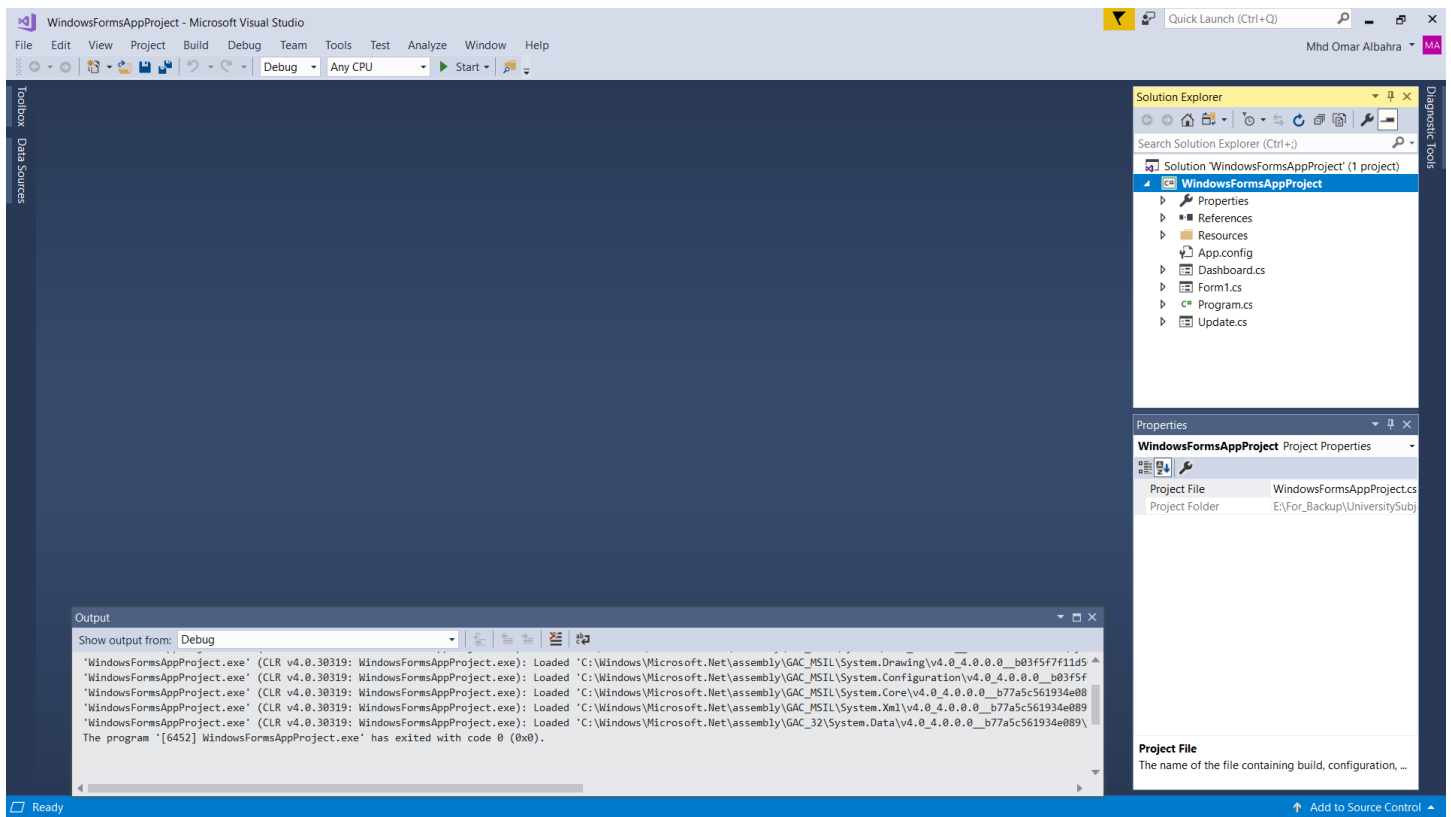
Launching the application:

By opening the file pointing to the picture.



After that you will see this window:

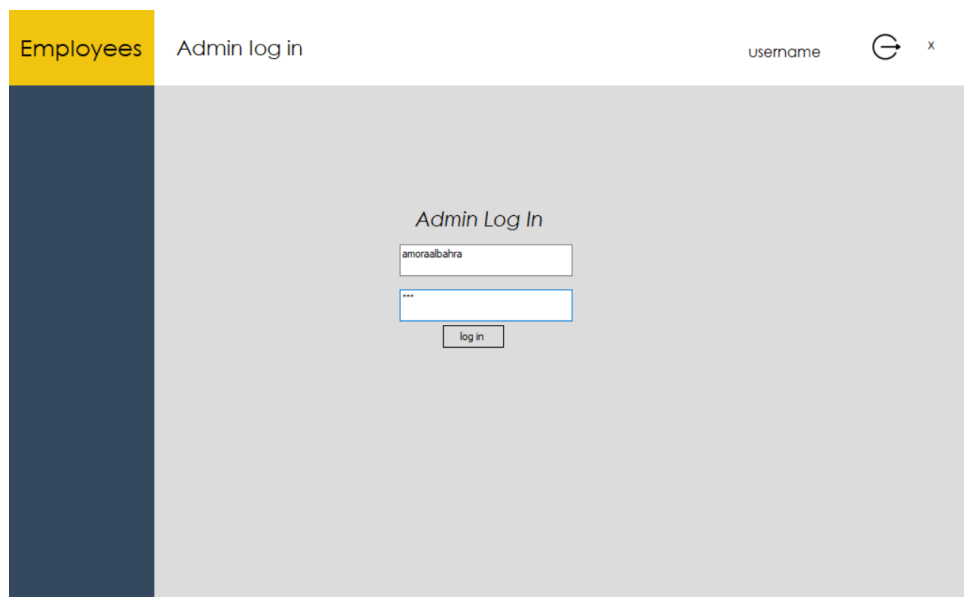
Just hit the start button and the program will run.



After you hit start.

Using the program:

please enter your username and password in order to log in.



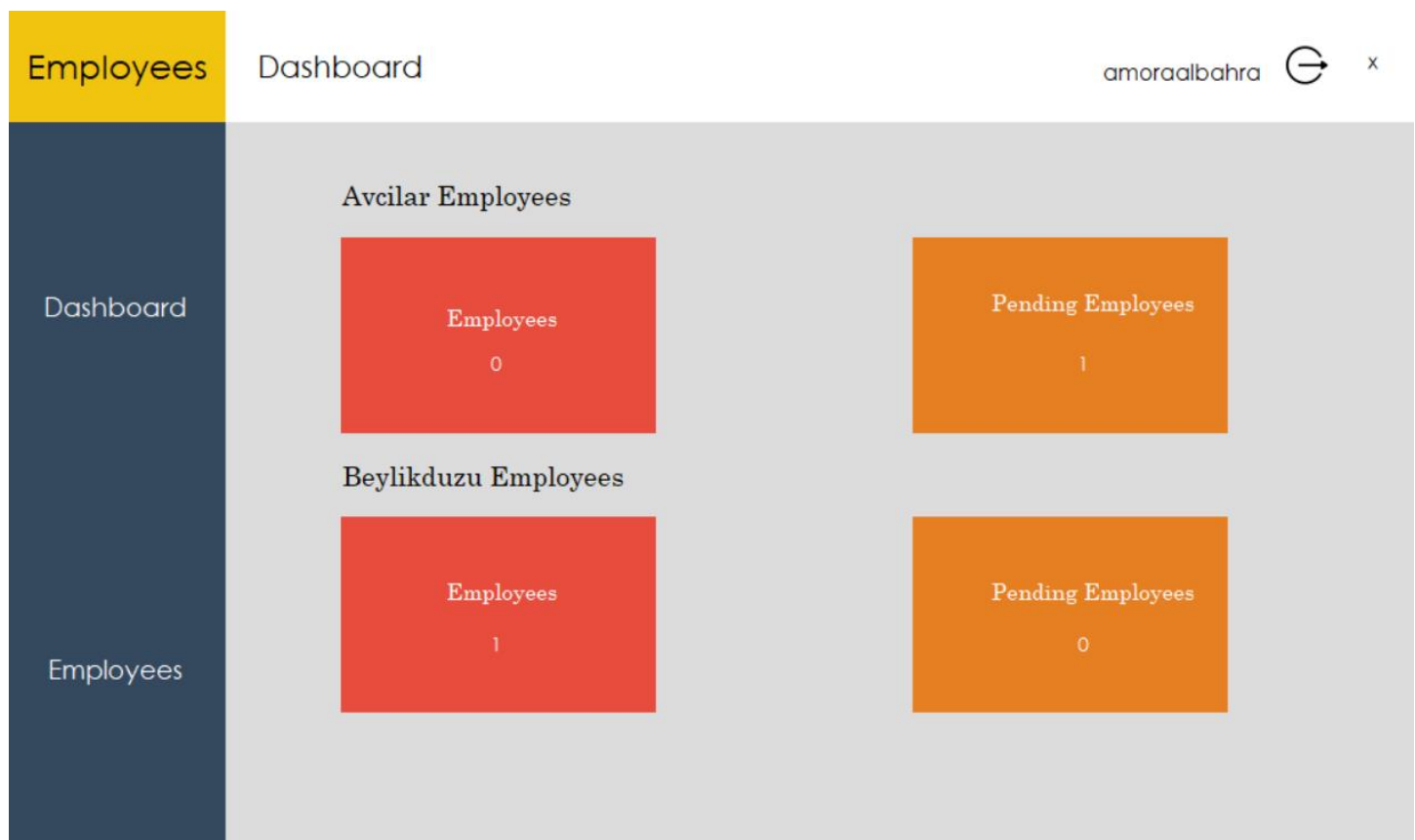
Employees Admin log in username

Admin Log In


amoraalbahra

log in

After you log in successfully you will be shown this: here you have your dashboard which shows the total of employees in both locations and the total of pending employees in each location is well, as you can see there is a navbar on the left to switch between the dashboard and the control panel.



Log out

amoraalbahra  x

Control panel:


This gives you the ability to update delete add and approve an employee

Employees

Dashboard

Employees

Operations

amoraalbahra  x

fname

username

lname

address

☒ Approve

Add

update

Delete

Approve

	ID	fname	lname	username	password	address	userType	RegStatu
▶	2	mohammed	bahra	mohamme...	123456	Avcilar	<input type="checkbox"/>	0
	11	omar	bahra	omarbahra3		Beylikduzu	<input type="checkbox"/>	1

Adding a user:


After we fill in the text boxes we just need to press on add.

Employees

Dashboard

Employees

Operations

amoraalbahra  x

fname

username

lname

address ☒ Approve

Add

update

Delete

Approve


	ID	fname	lname	username	password	address	userType	RegStatu
▶	2	mohammed	bahra	mohamme...	123456	Avcilar	<input type="checkbox"/>	0
	11	omar	bahra	omarbahra3		Beylikduzu	<input type="checkbox"/>	1

Employees

Dashboard

Employees

Operations

amoraalbahra  x

fname

username

lname

address ☒ Approve

Add

update

Delete

Approve

	ID	fname	lname	username	password	address	userType	RegStatu
▶	2	mohammed	bahra	mohamme...	123456	Avcilar	<input type="checkbox"/>	0
	11	omar	bahra	omarbahra3		Beylikduzu	<input type="checkbox"/>	1
	15	khaled	mamoun	khaledmm		Beylikduzu	<input type="checkbox"/>	1


Updating a user:

We can either update a user through the table shown or by pressing the update button:

This window shows up after you press the update button all you have to do is to type in the user's username and press search and textboxes will be filled automatically for you in order to give you an easy update:

Employees

Updating

amoraalbahra  x

Dashboard

Employees

Username

Search

Delete

fname

lname

☒ Approve


Save

username

address

Employees

Updating

amoraalbahra  x

Dashboard

Employees

Username

Search

Delete

fname

lname

☒ Approve

Save


username

address

Then all what you need to do is to press the save button after changing the inputs of textboxes and the user data will be updated.

Employees

Updating

amoraalbahra  x

Dashboard

Employees

Username

khaledmm

Search

Delete

fname

khaled

lname

mamoun

☒ Approve

Save

username


khaled123

address

Avclar

Employees

Updating

amoraalbahra  x

Dashboard

Employees

Username

khaledmm

Search

Delete

fname

khaled

lname

mamoun

☒ Approve

Save

username

khaled123

address

Avclar

data was updated successfully

OK

Employees

Operations

khaled123

Dashboard

Employees

fname

username

lname

address

☒ Approve

Add

update

Delete

Approve

	ID	fname	lname	username	password	address	userType	RegStatu
▶	2	mohammed	bahra	mohamme...	123456	Avclar	<input type="checkbox"/>	0
	11	omar	bahra	omarbahra3		Beylikduzu	<input type="checkbox"/>	1
	15	khaled	mamoun	khaled123		Avclar	<input type="checkbox"/>	1

Deleing a user

Just press the delete button:

Type the username and click on delete.

Employees

Deleting

amoraalbahra

Dashboard

Employees

Username

khaled123

Search

Delete

fname

username

lname

address

☒ Approve

Save

Employees

Deleting

amoraalbahra

Dashboard

Employees

Username

khaled123

Search

Delete

fname

username

lname

address

☒ Approve

Save

data was deleted successfully

OK

Exiting the project:

By pressing the X button on the top right.

Employees

Dashboard

amoraalbahra



x