

AMAÇ: C# dilini kullanarak orta seviye bir hastane ara yüzü geliştirme.

#### AŞAMALAR:

- 1) Proje için gerekli veri tabanı tasarımını planladım. Veri tabanının 8 adet tablodan oluşmasının uygun olduğuna karar verdim. Hastane çalışanlarının maaşlarını, departmanlarını ve shiftlerini ayrı ayrı tablolarda tutmanın daha sağlıklı olacağına karar verdim. Planımım excel üzerinde tasarlayarak veri tabanına aktarmadan önce kontrol etmeyi tercih ettim.

Login		Doctors		Asisitance		Nurses	
ID	INT	ID	INT	ID	INT	ID	INT
Name	String	Dep_ID	INT	Dep_ID	INT	Name	String
Password	INT	Name	String	Name	String	Surname	String
		Surname	String	Surname	String	Age	INT
		Age	INT	Age	INT	SalaryId	INT
		SalaryId	INT	SalaryId	Int	isSentry	Boolean
		isSentry	Boolean	isSentry	Boolean		
				doctors_Id	INT		
Cleaning_Staff		Shift		Salary		Deparmant	
ID	INT	ID	INT	ID	INT	ID	INT
Name	String	Type	String	Salary	INT	Dep_Name	String
Surname	String						
ShiftID	INT						
Age	INT						
SalaryId	INT						

- 2) Tablolarımı veri tabanında oluşturdum ve gerekli veri girişlerini kişisel bilgilerin tamamen “spontane” olacağı şekilde ayarladım.

- Personel
  - Database Diagrams
  - Tables
    - System Tables
    - FileTables
    - dbo.Asistans
    - dbo.Cleaning\_Staff
    - dbo.Departmant
    - dbo.Doctors
    - dbo.Login
    - dbo.Nurses
    - dbo.Salary
    - dbo.Shift
  - Views
  - Synonyms
  - Programmability
  - Service Broker
  - Storage
  - Security

LAPTOP-DPKSVGD7\S...el - dbo.Asistans x LAPTOP-DPKSVGD7\S...sonel - dbo.Shift

	Column Name	Data Type	Allow Nulls
id		int	<input type="checkbox"/>
	dep_id	int	<input type="checkbox"/>
	doctors_id	int	<input type="checkbox"/>
	name	nvarchar(50)	<input type="checkbox"/>
	surname	nvarchar(50)	<input type="checkbox"/>
	age	date	<input type="checkbox"/>
	salary	int	<input type="checkbox"/>
	isSentry	bit	<input type="checkbox"/>
			<input type="checkbox"/>

LAPTOP-DPKSVGD7\S...bo.Cleaning\_Staff x LAPTOP-DPKSVGD7\S...onel - dbo.Salary

	Column Name	Data Type	Allow Nulls
id		int	<input type="checkbox"/>
	name	nvarchar(50)	<input type="checkbox"/>
	surname	nvarchar(50)	<input type="checkbox"/>
	shift_id	int	<input type="checkbox"/>
	age	date	<input type="checkbox"/>
	salary_id	int	<input type="checkbox"/>
			<input type="checkbox"/>

LAPTOP-DPKSVGD7\S...- dbo.Departmant x LAPTOP-DPKSVGD7\S...onel - dbo.Salary

	Column Name	Data Type	Allow Nulls
id		int	<input type="checkbox"/>
	departman_name	nvarchar(50)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

LAPTOP-DPKSVGD7\...onel - dbo.Salary		LAPTOP-DPKSVGD7\...onel - dbo.Nurses	
	Column Name	Data Type	Allow Nulls
▶	id	int	<input type="checkbox"/>
	dep_id	int	<input type="checkbox"/>
	name	nvarchar(50)	<input type="checkbox"/>
	surname	nvarchar(50)	<input type="checkbox"/>
	age	date	<input type="checkbox"/>
	salary_id	int	<input type="checkbox"/>
	isSentry	bit	<input type="checkbox"/>
			<input type="checkbox"/>

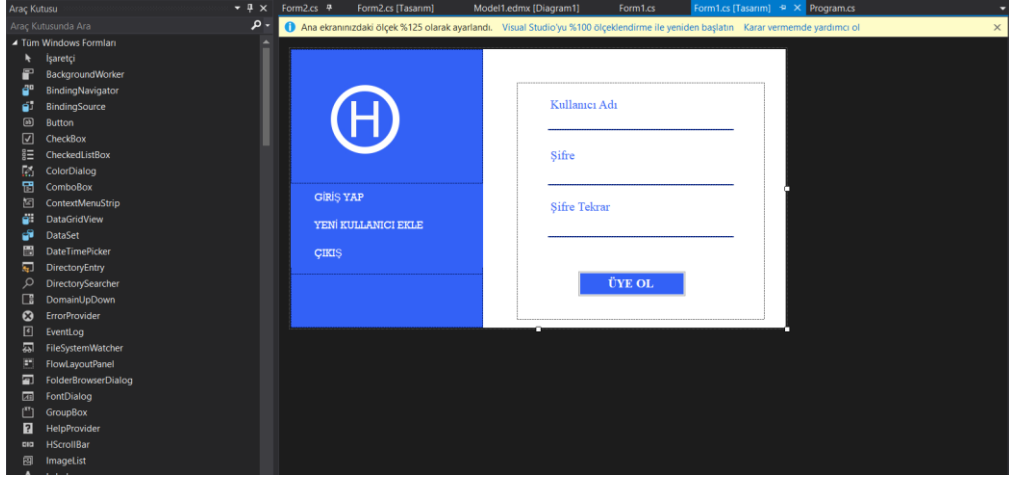
	Column Name	Data Type	Allow Nulls
▶	id	int	<input type="checkbox"/>
	name	nvarchar(50)	<input type="checkbox"/>
	password	nvarchar(50)	<input type="checkbox"/>
			<input type="checkbox"/>

LAPTOP-DPKSVGD7\...onel - dbo.Salary		LAPTOP-DPKSVGD7\...onel - dbo.Nurses	
	Column Name	Data Type	Allow Nulls
▶	id	int	<input type="checkbox"/>
	name	nvarchar(50)	<input type="checkbox"/>
	surname	nvarchar(50)	<input type="checkbox"/>
	age	date	<input type="checkbox"/>
	salary_id	int	<input type="checkbox"/>
	isSentry	bit	<input type="checkbox"/>
			<input type="checkbox"/>

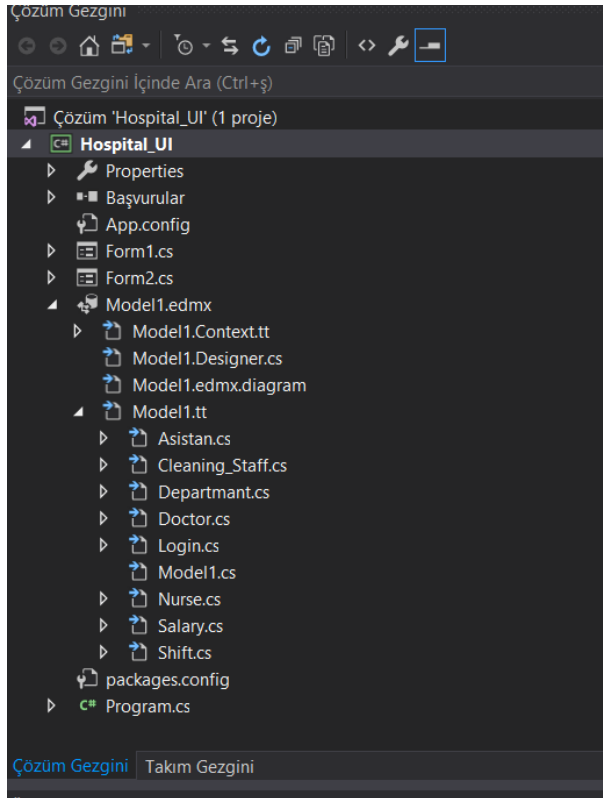
LAPTOP-DPKSVGD7\...onel - dbo.Salary		LAPTOP-DPKSVGD7\S...sonel - dbo.Shift	
	Column Name	Data Type	Allow Nulls
▶	id	int	<input type="checkbox"/>
	salary	int	<input type="checkbox"/>
			<input type="checkbox"/>

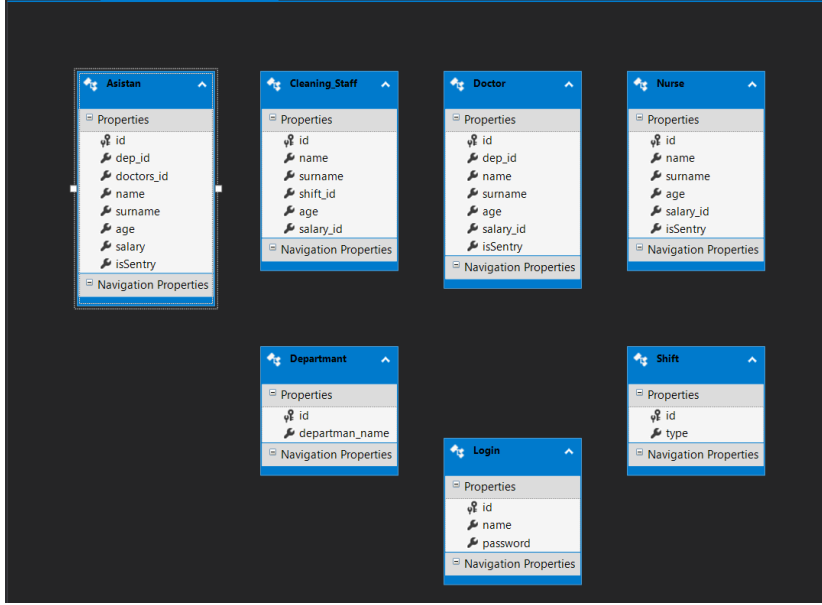
LAPTOP-DPKSVGD7\S...sonel - dbo.Shift			
	Column Name	Data Type	Allow Nulls
▶	id	int	<input type="checkbox"/>
	type	nvarchar(50)	<input type="checkbox"/>
			<input type="checkbox"/>

- 3) Veri tabanı işlemlerini hallettikten sonra Visual Studio programında c# tabanlı bir “Windows Form” uygulaması açtım ve ilk önce giriş sayfası tasarımı yaptım. Tasarımı en sade halinde tutmaya özen gösterdim. Ayrıca hastaneyi temsilen “photoshop” uygulamasında çok basit bir logo tasarladım.



- 4) Program için gerekli olan veri tabanı bağlantılarımı yaptım.





5) Giriş sayfası tasarımını ve veri tabanı bağlantılarını yaptıktan sonra gerekli kodlamaları yaptım. Proje içinde çok fazla class ile çalışmayı tercih etmedim; çok fazla bir ihtiyaç görmedim.

```
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace Hospital_UI
12 {
13     public partial class Form1 : Form
14     {
15         public Form1()
16         {
17             InitializeComponent();
18             panelLogins.Visible = false;
19             txtPassword.PasswordChar = '*';
20             txtPassword_Main.PasswordChar = '*';
21         }
22         PersonelEntities personel = new PersonelEntities();
23         Login lgn = new Login();
24         private void btnExit_click(object sender, EventArgs e)
25         {
26             Application.Exit();
27         }
28
29         private void btnLogins_Click(object sender, EventArgs e)
30         {
31             panelLogins.Visible = true;
32             panel1.Visible = false;
33             lblPsw.Visible = false;
34             txtPassword.Visible = false;
35             btnUsers.Visible = false;
36         }
37
38         private void btnNewUser_Click(object sender, EventArgs e)
39         {
40             panelLogins.Visible = true;
41             panel1.Visible = true;
42             lblPsw.Visible = true;
43             txtPassword.Visible = true;
44             txtName.Clear();
45             txtPassword_Main.Clear();
46             btnUsers.Visible = true;
47         }
48     }
49 }
```

```

49 private void btnLogin_Click(object sender, EventArgs e)
50 {
51     try
52     {
53         if (personel.Logins.Where(r => r.name == txtName.Text && r.password == txtPassword_Main.Text).Count() > 0)
54         {
55             MessageBox.Show("Başarılı, Hoşgeldin " + txtName.Text);
56             Form2 form2 = new Form2();
57             form2.Show();
58             this.Hide();
59         }
60     }
61     else
62     {
63     }
64     MessageBox.Show("Şifreniz veya parolanız yanlış lütfen tekrar deneyin");
65 }
66 }
67 catch (Exception ex)
68 {
69 }
70 throw;
71 }
72 }
73 }
74 private void btnUsers_Click(object sender, EventArgs e)
75 {
76 }
77 if (txtPassword_Main.Text == txtPassword.Text)
78 {
79     lgn.name = txtName.Text;
80     lgn.password = (txtPassword_Main.Text).ToString();
81     personel.Logins.Add(lgn);
82     personel.SaveChanges();
83     MessageBox.Show("Kayıt Başarılı, Hoşgeldin " + txtName.Text);
84 }
85 else
86 {
87     MessageBox.Show("Şifreniz veya parolanız yanlış lütfen tekrar deneyin");
88 }
89 }
90 }
91 }
92 private void txtPassword_TextChanged(object sender, EventArgs e)
93 {
94 }
95 }
96 }
97 }
98 }

```

6) Giriş sayfasındaki işlemleri bitirdikten sonra hastane personelinin görüntüleneceği bir form tasarımı yaptım.

7) Ardından gerekli kodlamaları gerçekleştirdim.

```

13 public partial class Form2 : Form
14 {
15     public Form2()
16     {
17         InitializeComponent();
18         desing();
19         panelSearching.Visible = false;
20     }
21     PersonelEntities personel = new PersonelEntities();
22
23     private void desing()
24     {
25         panelPersonelSub.Visible = false;
26         panelProcedure.Visible = false;
27         panelInfo.Visible = true;
28     }
29     private void hide()
30     {
31         if (panelPersonelSub.Visible == true)
32         {
33             panelPersonelSub.Visible = false;
34         }
35         if (panelProcedure.Visible == true)
36         {
37             panelProcedure.Visible = false;
38         }
39     }
40
41     private void showMenus(Panel subMenu)
42     {
43         if (subMenu.Visible == false)
44         {
45             hide();
46             subMenu.Visible = true;
47         }
48         else
49             subMenu.Visible = false;
50     }
51
52     private void btnPersonel_Click(object sender, EventArgs e)
53     {
54         showMenus(panelPersonelSub);
55     }
56

```

```

57
58     private void btnPersonel_Click(object sender, EventArgs e)
59     {
60         showMenus(panelPersonelSub);
61     }
62
63     private void button2_Click(object sender, EventArgs e)
64     {
65         hide();
66         listDoctors();
67     }
68
69     private void button3_Click(object sender, EventArgs e)
70     {
71         hide();
72         listAsistans();
73     }
74
75     private void button4_Click(object sender, EventArgs e)
76     {
77         hide();
78         listNurses();
79     }
80
81     private void buttons_Click(object sender, EventArgs e)
82     {
83         hide();
84         listCleaninh_Staff();
85     }
86
87     private void btnProcedure_Click(object sender, EventArgs e)
88     {
89         showMenus(panelProcedure);
90     }
91
92     private void buttons_Click(object sender, EventArgs e)
93     {
94         hide();
95         panelSearching.Visible = true;
96     }
97
98     private void button9_Click(object sender, EventArgs e)
99     {
100         hide();
101     }
102
103     private void btnExit_Click(object sender, EventArgs e)
104     {
105         Application.Exit();
106     }
107

```

```

private void listDoctors()
{
    var query = from item in personel.Doctors
                join item1 in personel.Salaries
                on item.salary_id equals item1.id
                select new
                {
                    item.name,
                    item.surname,
                    item.isSentry,
                    item1.salary1
                };
    dataGridView2.DataSource = query.ToList();
}

private void listAsistans()
{
    var query = from item in personel.Asistans
                select new { item.name, item.surname, item.salary, item.isSentry };
    dataGridView2.DataSource = query.ToList();
}

private void listCleaninh_Staff()
{
    var query = from item in personel.Cleaning_Staff
                join item1 in personel.Salaries
                on item.salary_id equals item1.id
                join item2 in personel.Shifts
                on item.shift_id equals item2.id
                select new
                {
                    item.name,
                    item.surname,
                    item1.salary1,
                    item2.type
                };
    dataGridView2.DataSource = query.ToList();
}

```

```

139 private void listNurses()
140 {
141     var query = from item in personel.Nurses
142                 join item1 in personel.Salaries
143                 on item.salary_id equals item1.id
144                 select new
145                 {
146                     item.name,
147                     item.surname,
148                     item1.salary1
149                 };
150     dataGridView2.DataSource = query.ToList();
151 }
152
153 private void txtName_TextChanged(object sender, EventArgs e)
154 {
155     if (radioButton1.Checked == true)
156     {
157         dataGridView2.Visible = false;
158         search_Doctors();
159         dataGridView2.Visible = true;
160     }
161     else if (radioButton2.Checked == true)
162     {
163         dataGridView2.Visible = false;
164         search_Asistans();
165         dataGridView2.Visible = true;
166     }
167     else if (radioButton3.Checked == true)
168     {
169         dataGridView2.Visible = false;
170         search_Nurses();
171         dataGridView2.Visible = true;
172     }
173     else if (radioButton4.Checked == true)
174     {
175         dataGridView2.Visible = false;
176         search_Cleaning_Staff();
177         dataGridView2.Visible = true;
178     }
179     else
180     {
181         MessageBox.Show("Arama yapılacak çalışan tablosunu seçin");
182     }
183 }
184

```



```

184     }
185     private void search_Doctors()
186     {
187         string search = txtName.Text;
188         var query = from item in personel.Doctors
189                     join item1 in personel.Salaries
190                     on item.salary_id equals item1.id
191                     where item.name.Contains(search)
192                     select new
193                     {
194                         item.name,
195                         item.surname,
196                         item.isSentry,
197                         item1.salary1
198                     };
199         dataGridView2.DataSource = query.ToList();
200     }
201     private void search_Asistans()
202     {
203         string search = txtName.Text;
204         var query = from item in personel.Asistans
205                     where item.name.Contains(search)
206                     select new { item.name, item.surname, item.salary, item.isSentry };
207         dataGridView2.DataSource = query.ToList();
208     }
209     private void search_Nurses()
210     {
211         string search = txtName.Text;
212         var query = from item in personel.Nurses
213                     join item1 in personel.Salaries
214                     on item.salary_id equals item1.id
215                     where item.name.Contains(search)
216                     select new
217                     {
218                         item.name,
219                         item.surname,
220                         item1.salary1
221                     };
222         dataGridView2.DataSource = query.ToList();
223     }

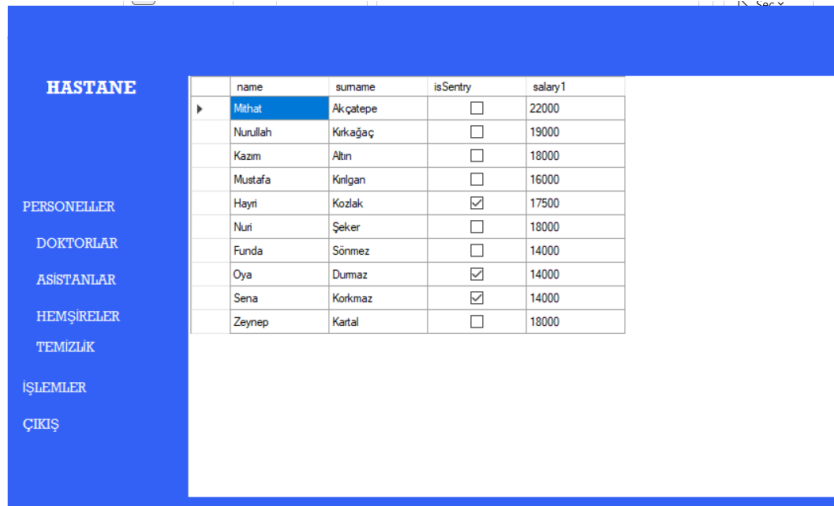
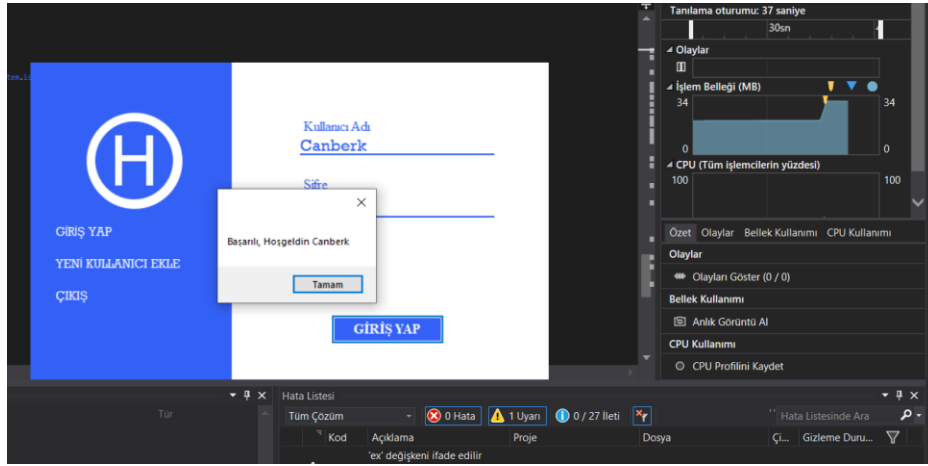
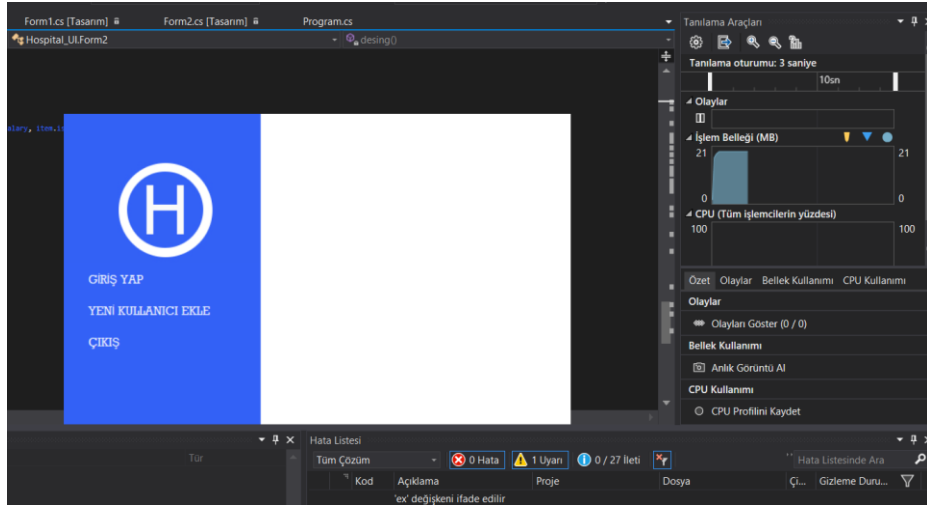
```

```

224     }
225     private void search_Nurses()
226     {
227         string search = txtName.Text;
228         var query = from item in personel.Nurses
229                     join item1 in personel.Salaries
230                     on item.salary_id equals item1.id
231                     where item.name.Contains(search)
232                     select new
233                     {
234                         item.name,
235                         item.surname,
236                         item1.salary1
237                     };
238         dataGridView2.DataSource = query.ToList();
239     }
240     private void search_Cleaning_Staff()
241     {
242         string search = txtName.Text;
243         var query = from item in personel.Cleaning_Staff
244                     join item1 in personel.Salaries
245                     on item.salary_id equals item1.id
246                     join item2 in personel.Shifts
247                     on item.shift_id equals item2.id
248                     where item.name.Contains(search)
249                     select new
250                     {
251                         item.name,
252                         item.surname,
253                         item1.salary1,
254                         item2.type
255                     };
256         dataGridView2.DataSource = query.ToList();
257     }
258     }
259 }

```

8)Projemin çalışıp çalışmadığını kontrol ettim.



HASTANE

PERSONELLER

İŞLEMLER

ÇIKIŞ

	name	surname	isSentry	salary1
▶	Mihai	Akçatepe	<input type="checkbox"/>	22000
	Kazım	Altın	<input type="checkbox"/>	18000
	Mustafa	Kınlgan	<input type="checkbox"/>	16000

☒ Doktorlar

☐ Asistanlar

☐ Hemşireler

☐ Hizmetliler

Kullanıcı Adı

M

10)Bütün kontrolleri yaptıktan sonra projemi bitirdim.