



T.C.  
MANİSA CELAL BAYAR  
ÜNİVERSİTESİ  
MÜHENDİSLİK FAKÜLTESİ  
BİLGİSAYAR MÜHENDİSLİĞİ  
BÖLÜMÜ



# **.NET Web Programming Project**

**Tasarım Projesi / Lisans Bitirme Tezi**

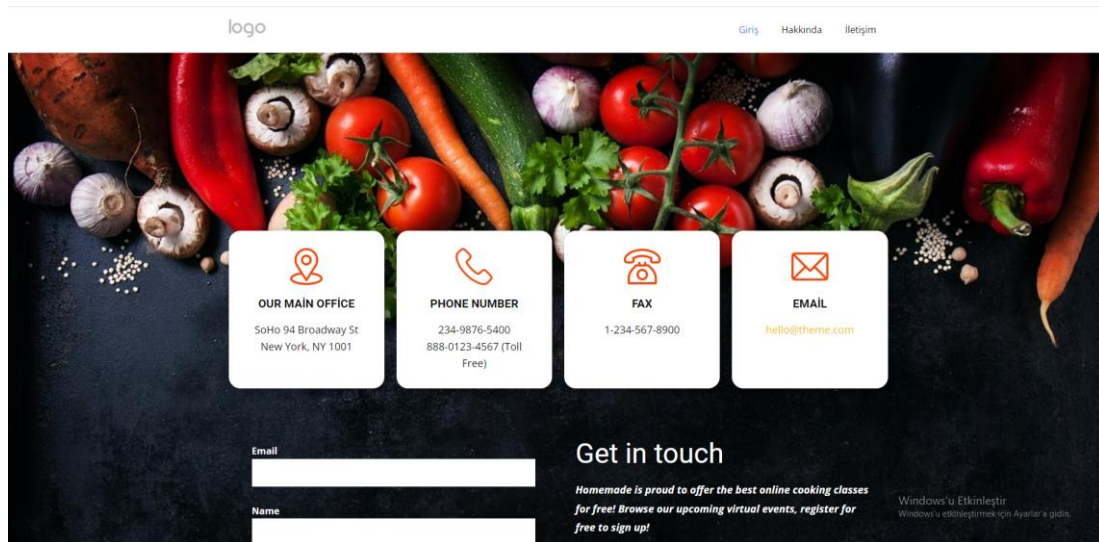
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First of all, I chose this template to use in this homework. And my main was changing the our main Office, phone number, fax and eMail part by using MVC and SQL.

After choosing template that I'm going to use then I installed Entity Framework to use in this project. Also I implemented the template in our project to use.

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.Web.Mvc;
6 using WebProgramming_Homework.Models;
7
8 namespace WebProgramming_Homework.Controllers
9 {
10     public class InformationController : Controller
11     {
12         // GET: Information
13         Context db = new Context();
14         public ActionResult Index()
15         {
16             List<Information> informationList = db.Informations.ToList();
17             return View(informationList);
18         }
19     }
20 }
```

In this part, I created a controller which is called InformationController.

InformationController class is derived from Controller class. Also we need to implement 'using WebProgramming\_Homework.Controllers' to access this controller. Additionally, we need a db object which is created from context class. By using this object we created our datas into a list then we stored them in a informationList. And returned them with using View. Last of all, we created a view for our Index.

```

1 @using WebProgramming_Homework.Models;
2 @model List<Information>
3
4 {
5     Layout = null;
6 }
7
8 <!DOCTYPE html>
9 <html style="font-size: 16px;" lang="tr">
10 <head>
11     <meta name="viewport" content="width=device-width, initial-scale=1.0">
12     <meta charset="utf-8">
13     <meta name="keywords" content="Get in touch, INTUITIVE">
14     <meta name="description" content="">
15     <title>Giriş</title>
16     <link rel="stylesheet" href="~/Web/nicepage.css" media="screen">
17     <link rel="stylesheet" href="~/Web/Giriş.css" media="screen">
18     <script class="u-script" type="text/javascript" src="~/Web/jquery.js" defer=""></script>
19     <script class="u-script" type="text/javascript" src="~/Web/nicepage.js" defer=""></script>
20     <meta name="generator" content="Nicepage 5.10.10, nicepage.com">
21     <meta name="referrer" content="origin">
22     <link id="u-theme-google-font" rel="stylesheet" href="https://fonts.googleapis.com/css?family=Roboto:100,100i,300,300i,4
23
24
25
26
27
28
29 </script>

```

Here, we implemented “@using WebProgramming\_Homework.Models;” to access models. Also we need a list to do that we need to implement “@model List<Information>”. In html part we changed the beginning html codes with a new html codes that are copied from our template.

```

<script class="u-script" type="text/javascript" src="~/Web/jquery.js" defer=""></script>
<script class="u-script" type="text/javascript" src="~/Web/nicepage.js" defer=""></script>

```

We need to change path ways of the source parts to access the “jquery.js” and “nicepage.js”.

```

1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5
6 namespace WebProgramming_Homework.Models
7 {
8     public class Information
9     {
10         public int InformationId { get; set; }
11         public string mainOffice { get; set; }
12         public string phoneNumber { get; set; }
13         public string Fax { get; set; }
14         public string eMail { get; set; }
15     }
16 }
17

```

In Information class, there are some properties of the information class that are InformationId, mainOffice, phoneNumber, Fax and eMail. Then we are going to use them in a database.

```

1 using System;
2 using System.Collections.Generic;
3 using System.Data.Entity;
4 using System.Linq;
5 using System.Web;
6
7 namespace WebProgramming_Homework.Models
8 {
9     public class Context:DbContext
10     {
11         public DbSet<Information> Informations { get; set; }
12     }
13 }

```

Here, we have a class named Context and it is derived from DbContext class. It is a bridge between entity classes and the database. DbSet represents an entity set than can be used for create, read, update and delete operations.

```
Web.config -> X index.cshtml Context.cs Information.cs InformationController.cs
<bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0" />
</dependentAssembly>
<dependentAssembly>
  <assemblyIdentity name="System.Web.Mvc" publicKeyToken="31bf3856ad364e35" />
  <bindingRedirect oldVersion="1.0.0.0-5.2.7.0" newVersion="5.2.7.0" />
</dependentAssembly>
</assemblyBinding>
</runtime>
<system.codedom>
  <compilers>
    <compiler language="c#;cs;cssharp" extension=".cs" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform.CSharpCodePro
    <compiler language="vb;vbs;visualbasic;vbscript" extension=".vb" type="Microsoft.CodeDom.Providers.DotNetCompilerPlatform
  </compilers>
</system.codedom>
<entityFramework>
  <providers>
    <provider invariantName="System.Data.SqlClient" type="System.Data.Entity.SqlServer.SqlProviderServices, EntityFramework..
  </providers>
</entityFramework>
<connectionStrings>
  <add name="Context"
    connectionString="Data Source=DESKTOP-9J6UQLC; Initial Catalog=DbInformation; Integrated Security= True;"
    providerName="System.Data.SqlClient"/>
</connectionStrings>
</configuration>
```

Web.config is used to connect database to our project.

```
<connectionStrings>
  <add name="Context"
    connectionString="Data Source=DESKTOP-9J6UQLC; Initial Catalog=DbInformation; Integrated Security= True;"
    providerName="System.Data.SqlClient"/>
</connectionStrings>
```

In connectionStrings brackets we need some configurations to complete our connection to database. DESKTOP-9J6UQLC is our server name and Initial Catalog is used for our database name.

```
PM> enable-migrations
Checking if the context targets an existing database...
```

To make some changes in database we need to enable migrations with using "enable-migrations" command.

```
0 references
public Configuration()
{
  AutomaticMigrationsEnabled = true;
}
```

And we change the value of the AutomaticMigrationsEnabled to true to make changes in database automatically.

```
PM> update-database
Specify the '-Verbose' flag to view the SQL statements being applied to the target database.
```

Then we update our database with using "update-database" command.

	InformationId	mainOffice	phoneNumber	Fax	eMail
▶	1	İzmir	+90 507 361 3922	+90-232-222 88...	barandemir.cm...
*	NULL	NULL	NULL	NULL	NULL

This is a image of our database. Then we are going to use these datas in the "index.cshtml".

```

86 </nav>
87 </div>
88 </header>
89 <section class="u-align-center u-black u-clearfix u-section-1" id="carousel_1928">
90 
91 <div class="u-list u-list-1">
92 <div class="u-repeater u-repeater-1">
93 <div class="u-align-center u-container-style u-list-item u-radius-20 u-repeater-item u-shape-round u-white u-list-item-1">
94 <div class="u-container-layout u-similar-container u-valign-top u-container-layout-1">
95 <span class="u-file-icon u-icon u-text-palette-3-base u-icon-2"></span>
96 <h5 class="u-text u-text-1">our main office</h5>
97 <foreach (var item in Model)>
98 {
99 <p class="u-text u-text-2">@item.mainOffice</p>
100 }
101 </div>
102 </div>
103 <div class="u-align-center u-container-style u-list-item u-radius-20 u-repeater-item u-shape-round u-white u-list-item-2">
104 <div class="u-container-layout u-similar-container u-valign-top u-container-layout-2">
105 <span class="u-file-icon u-icon u-text-palette-3-base u-icon-2"></span>
106 <h5 class="u-text u-text-3">phone number</h5>
107 <foreach (var item in Model)>
108 {
109 <p class="u-text u-text-4">
110 @item.phoneNumber
111 </p>
112 }
113 </div>

```

In lines between 97-100 we have displayed our mainOffice that is taken from the database.

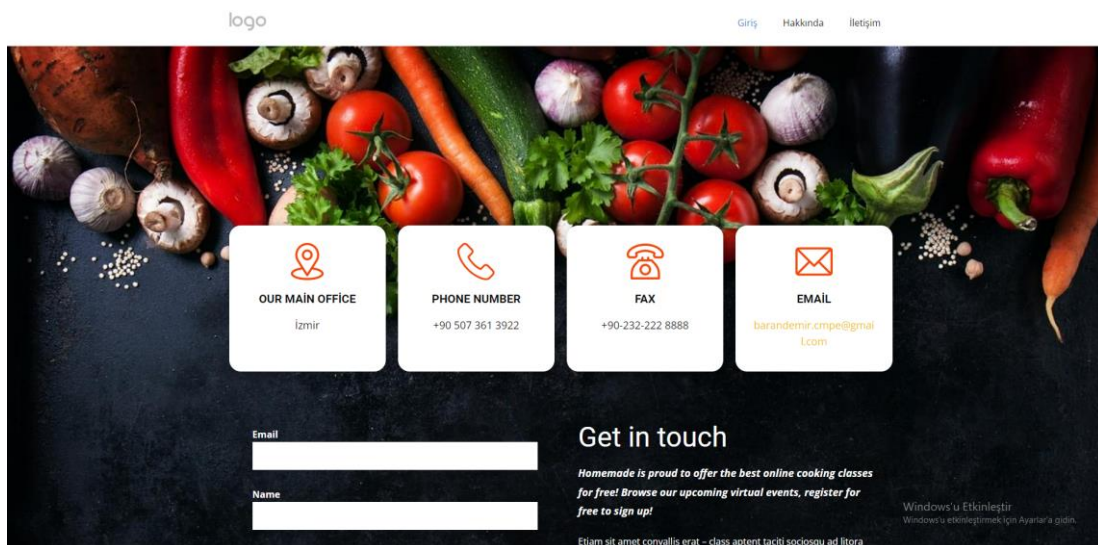
Also lines between 107-111 we have displayed our phoneNumber that is taken from the database.

```

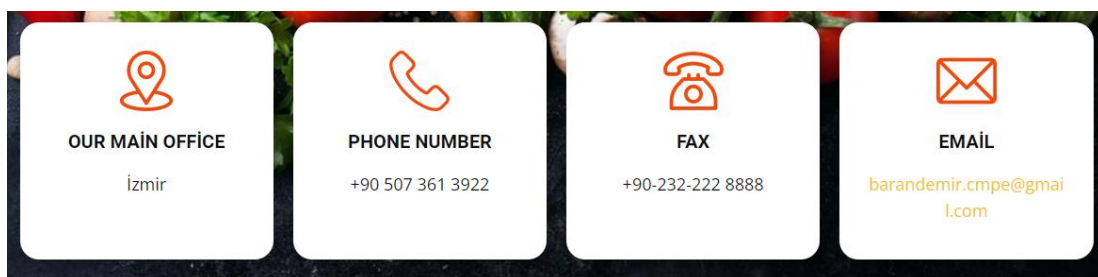
119 <foreach (var item in Model)>
120 {
121 <p class="u-text u-text-6">@item.Fax</p>
122 }
123 </div>
124 <div class="u-align-center u-container-style u-list-item u-radius-20 u-repeater-item u-shape-round u-white u-list-item-4">
125 <div class="u-container-layout u-similar-container u-valign-top u-container-layout-4">
126 <span class="u-file-icon u-icon u-text-palette-3-base u-icon-4"></span>
127 <h5 class="u-text u-text-7">Email</h5>
128 <foreach (var item in Model)>
129 {
130 <p class="u-text u-text-8">
131 <a href="@item.eMail" class="u-active-none u-border-1 u-border-active-black u-border-hover-black u-border-no-left u-border-no-r
132 </p>
133 }
134 </div>
135 </div>

```

Here we also displayed our Fax and eMail informations by foreach loop.



This is the last version of my template after the changes.



In here, informations are taken from our database.