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Assignment-6

Controller:

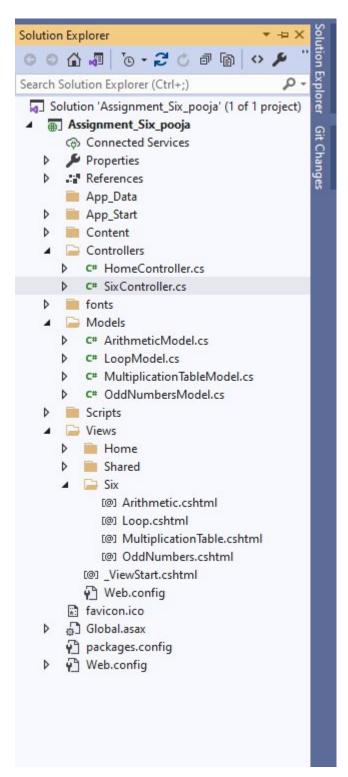
```
OddNumbersModel.cs
                                                       Multiplication Table.cshtml
                         MultiplicationTableModel.cs
                                                                                    SixController.cs* +> X Assignment_Six_pooja: Overview
Assignment_Six_pooja

    Assignment_Six_pooja.Controllers.SixController

           ∃using System;
             using System.Collections.Generic;
             using System.Linq;
using System.Web;
            using System.Web.Mvc;
            using Assignment_Six_pooja.Models;
           ⊟namespace Assignment_Six_pooja.Controllers
                 public class SixController : Controller
     10
     11
     12
                     public ActionResult Arithmetic()
     13
     14
                         return View(new Models.ArithmeticModel());
     15
     16
     17
                     public ActionResult Arithmetic(Models.ArithmeticModel model)
     18
     19
                          switch (model.Operation)
     20
     21
                              case "Add":
     22
                                  model.Result = model.Number1 + model.Number2;
     23
                                  break;
                              case "Subtract":
     24
     25
                                  model.Result = model.Number1 - model.Number2;
     26
27
                              break;
case "Multiply":
     28
                                  model.Result = model.Number1 * model.Number2;
     29
                                 break:
     30
                              case "Divide":
     31
                                 if (model.Number2 != 0)
     32
                                      model.Result = model.Number1 / model.Number2;
     33
     34
                                      ModelState.AddModelError("", "Cannot divide by zero.");
     35
                                  break;
     36
                              default:
     37
                                  ModelState.AddModelError("", "Invalid operation selected.");
     38
     39
     40
                         return View(model);
     41
     42
                     [HttpGet]
     43
                     public ActionResult Loop()
     44
     45
                         return View(new Models.LoopModel());
     46
     47
                      [HttpPost]
     48
                     public ActionResult Loop(Models.LoopModel model)
```

```
MultiplicationTableModel.cs
                                                                                    SixController.cs* + X Assignment_Six_pooja: Overview
OddNumbersModel.cs
                                                       MultiplicationTable.cshtml
                                                                                            → ♣ Assignment_Six_pooja.Controllers.SixControllers.
Assignment_Six_pooja
     46
                     [HttpPost]
     47
     48
                      public ActionResult Loop(Models.LoopModel model)
     49
                          model.Numbers = new List<int>();
     50
     51
                          for (int i = 1; i <= model.N; i++)
     52
     53
                              model.Numbers.Add(i);
     54
     55
                          return View(model);
     56
     57
                     [HttpGet]
     58
                     public ActionResult OddNumbers()
     59
     60
                          return View(new Models.OddNumbersModel());
     61
     62
                      [HttpPost]
                     public ActionResult OddNumbers(Models.OddNumbersModel model)
     63
     64
     65
                          model.OddNumbers = new List<int>();
     66
                          for (int i = 1; i <= model.N; i++)
           Ė
     67
                              if (i % 2 != 0)
     68
     69
     70
                                  model.OddNumbers.Add(i);
     71
     72
     73
                          return View(model);
     74
     75
                      [HttpGet]
     76
                      public ActionResult MultiplicationTable()
     77
     78
                         return View(new Models.MultiplicationTableModel());
     79
                      [HttpPost]
     80
     81
                     public ActionResult MultiplicationTable(Models.MultiplicationTableModel model)
     82
     83
                          model.Table = new List<string>();
     84
                          for (int i = 1; i <= 10; i++)
     85
                              int result = model.N * i;
model.Table.Add($"{model.N} x {i} = {result}");
     86
     87
     88
     89
                          return View(model);
     90
     91
     92
            }
```

Solution Explorer:



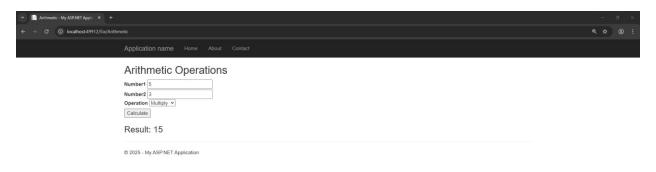
Arithmetic:

```
Arithmetic.cshtml*
               ArithmeticModel.cs → X SixController.cs
                                             Assignment_Six_pooja: Overview

→ Assignment_Six_pooja.Mo

Assignment_Six_pooja
             ∃using System;
       1 7
       2
               using System.Collections.Generic;
       3
               using System.Ling;
       4
              using System.Web;
       5
       6
             namespace Assignment_Six_pooja.Models
       7
              {
                   4 references
                   public class ArithmeticModel
       8
             9
                        6 references
                        public double Number1 { get; set; }
      10
                        7 references
      11
                        public double Number2 { get; set; }
                        3 references
                        public string Operation { get; set; }
      12
                        6 references
                        public double? Result { get; set; }
      13
      14
      15
      16
      17
      18
      19
```

```
ArithmeticModel.cs SixController.cs Assignment_Six_pooja: Overview
        @model Assignment_Six_pooja.Models.ArithmeticModel
        @{ ViewBag.Title = "Arithmetic"; }
        <h2>Arithmetic Operations</h2>
      □<mark>@</mark>using (Html.BeginForm())
      {
⊟<div>
 5
 6
            @Html.LabelFor(m => m.Number1)
            @Html.TextBoxFor(m => m.Number1)
9
       -</div><div>
10
              @Html.LabelFor(m => m.Number2)
11
              @Html.TextBoxFor(m => m.Number2)
12
      =</div><div>
13
              @Html.LabelFor(m => m.Operation)
14
              @Html.DropDownListFor(m => m.Operation, new SelectList(new[]
15
                {
16
                      new { Value = "Add", Text = "Add" },
                      new { Value = "Subtract", Text = "Subtract" },
new { Value = "Multiply", Text = "Multiply" },
17
18
                      new { Value = "Divide", Text = "Divide" }
}, "Value", "Text"))
19
20
21
        </div>
22
                                                            <div><input type="submit" value="Calculate" /></div>}
        @if (Model.Result != null)
23
24
25
        <h3>Result: @Model.Result</h3>}
26
      □@if (!ViewData.ModelState.IsValid)
27
            foreach (var error in ViewData.ModelState.Values.SelectMany(v => v.Errors))
28
29
             @error.ErrorMessage}
31
```



Loop:

```
Assignment_Six_pooja
                                                       → 🔩 Assignment_Six_pooja.Models.LoopModel
           -using System;
      1
      2
             using System.Collections.Generic;
      3
             using System.Linq;
      4
            using System. Web;
      5
      6
           namespace Assignment_Six_pooja.Models
      7
             {
                 4 references
      8
                 public class LoopModel
                     4 references
                     public int N { get; set; }
     10
                     5 references
                     public List<int> Numbers { get; set; }
     11
     12
     13
            }
     14
     15
     16
     17
```

```
Loop.cshtml* ₹ X LoopModel.cs
                    SixController.cs Assignment_Six_pooja: Overview
             @model Assignment_Six_pooja.Models.LoopModel
      2
             @{ ViewBag.Title = "Loop Example"; }
      3
      4
             <h2>Loop Example: Display 1 to N</h2>
      5
           □@using (Html.BeginForm())
      6
            {
      7
           ⊟<div>
                 @Html.LabelFor(m => m.N)
      8
      9
                 @Html.TextBoxFor(m => m.N)
                 <input type="submit" value="Show Numbers" />
     10
     11
            </div>}
     12
     13
           ☐@if (Model.Numbers != null && Model.Numbers.Count > 0)
     14
             <h3>Numbers from 1 to @Model.N:</h3>
     15
     16
                             <l
                                 @foreach (var number in Model.Numbers)
     17
     18
                                       @number
     19
     20
                             21
     22
```

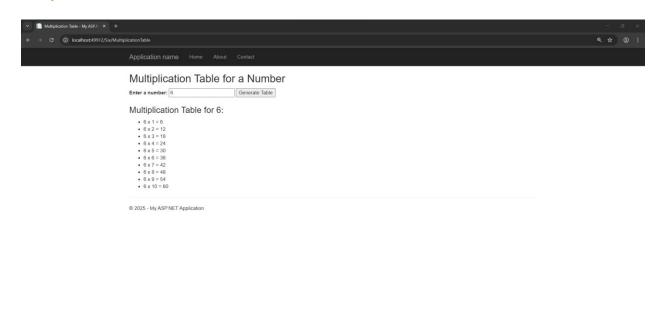


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MultiplicationTable:

```
MultiplicationTableModel.cs → X MultiplicationTable.cshtml SixController.cs
Assignment_Six_pooja
                                                                  🔩 Assignment_Six_pooja.Models.Multiplication
       1 🖤
            ∃using System;
               using System.Collections.Generic;
               using System.Ling;
       3
              using System.Web;
       4
       5
       6
             namespace Assignment_Six_pooja.Models
       7
               {
                    4 references
       8
                    public class MultiplicationTableModel
       9
                             5 references
      10
                              public int N { get; set; }
                              5 references
                             public List<string> Table { get; set; }
      11
      12
      13
                    }
               }
      14
```

```
eModel.cs MultiplicationTable.cshtml* 🖘 🗙 SixController.cs Assignment_Six_pooja: Overview
 1
       @model Assignment Six pooja.Models.MultiplicationTableModel
 2
 3
       @{ ViewBag.Title = "Multiplication Table"; }
 4
 5
       <h2>Multiplication Table for a Number</h2>
 6
 7
     □@using (Html.BeginForm())
 8
       {
 9
10
     = <div>
11
12
13
           @Html.LabelFor(m => m.N, "Enter a number:")
14
15
           @Html.TextBoxFor(m => m.N)
16
           <input type="submit" value="Generate Table" />
17
18
     </div>}
19
     20
21
       <h3>Multiplication Table for @Model.N:</h3>
22
23
                          @foreach (var line in Model.Table)
24
25
                          @line}
26
27
                      }
```



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OddNumbers:

```
OddNumbers.cshtml*
               OddNumbersModel.cs → X SixController.cs Assignment_Six_pooja: Overview
Assignment_Six_pooja
                                                               → 🔩 Assignment_Six_pooja.Models.OddNumb
       1  using System;
               using System.Collections.Generic;
       2
               using System.Linq;
       3
       4
              using System.Web;
       5
             namespace Assignment_Six_pooja.Models
       6
       7
               {
                   4 references
                    public class OddNumbersModel
       8
       9
                             4 references
      10
                             public int N { get; set; }
                             5 references
                             public List<int> OddNumbers { get; set; }
      11
      12
      13
                        }
      14
      15
```

```
OddNumbers.cshtml* → X OddNumbersModel.cs SixController.cs Assignment_Six_pooja: Overview
             @model Assignment_Six_pooja.Models.OddNumbersModel
      2
             @{ ViewBag.Title = "Odd Numbers Generator"; }
      3
      4
      5
             <h2>Display Odd Numbers from 1 to N</h2>
      6
      7
           □@using (Html.BeginForm())
      8
             {
      9
     10
           = <div>
     11
     12
     13
                 @Html.LabelFor(m => m.N, "Enter a number:")
     14
                 @Html.TextBoxFor(m => m.N)
     15
     16
                 <input type="submit" value="Generate" />
     17
     18
            </div>}
     19
     20
           ☐@if (Model.OddNumbers != null && Model.OddNumbers.Count > 0)
     21
     22
             <h3>Odd Numbers from 1 to @Model.N:</h3>
     23
     24
           ⊟
           □<mark>@</mark>foreach (var num in Model.OddNumbers)
     25
     26
     27
             @num
     28
             29
            }
     30
     31
```

