Assignment 1

BMI CALCULATOR

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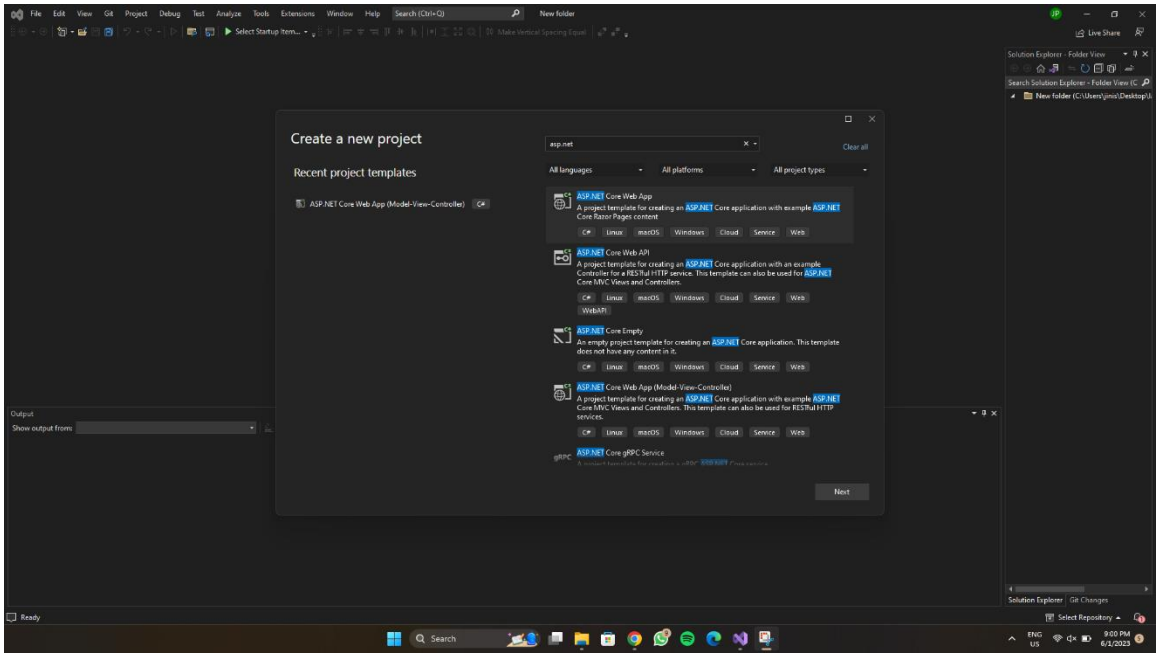
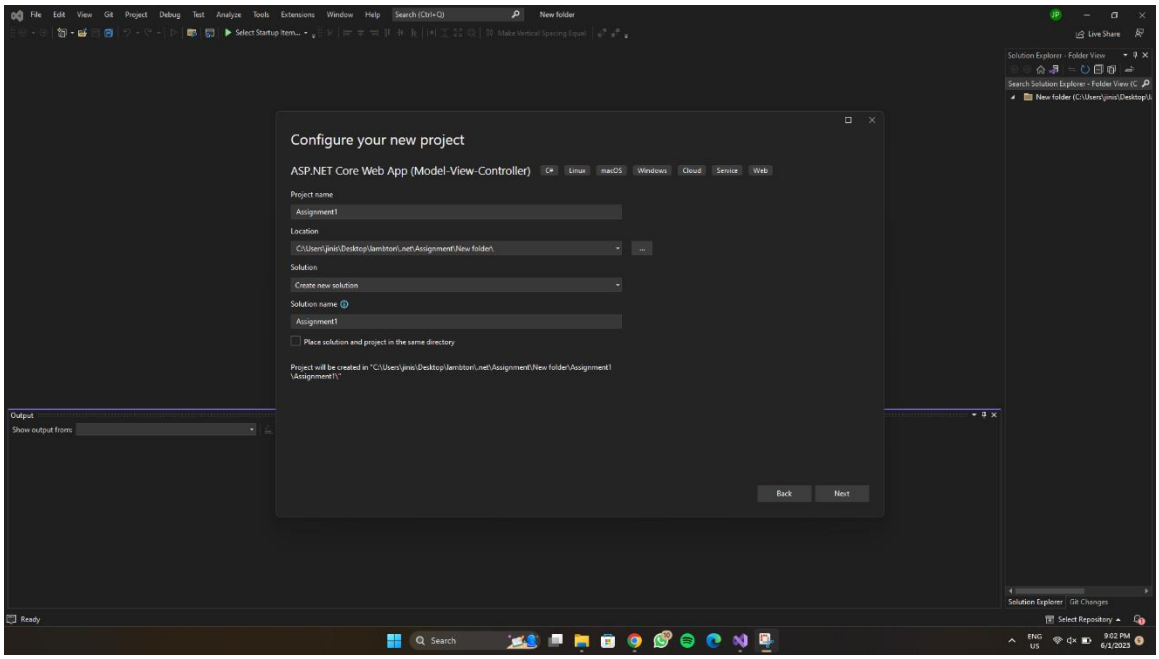
BMI Calculator:

Step 1: Creation of project with MVC.



Step 2:

Configure project as per directory and title.



Step 3:

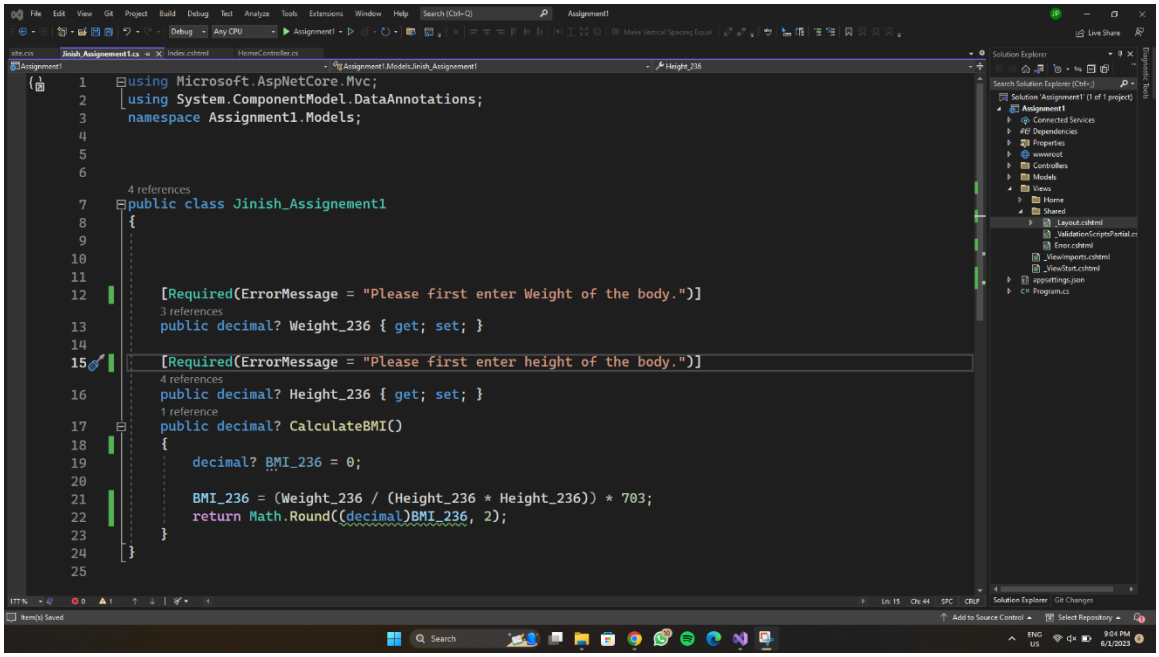
Model

For main logic which is useful to get BMI calculations.

Code:

```
using Microsoft.AspNetCore.Mvc;
using System.ComponentModel.DataAnnotations;
namespace Assignment1.Models;



public class Jinish_Assignement1
{



    [Required(ErrorMessage = "Please first enter Weight of the body.")]
    public decimal? Weight_236 { get; set; }

    [Required(ErrorMessage = "Please first enter height of the body.")]
    public decimal? Height_236 { get; set; }
    public decimal? CalculateBMI()
    {
        decimal? BMI_236 = 0;

        BMI_236 = (Weight_236 / (Height_236 * Height_236)) * 703;
        return Math.Round((decimal)BMI_236, 2);
    }
}
```

Screenshot:



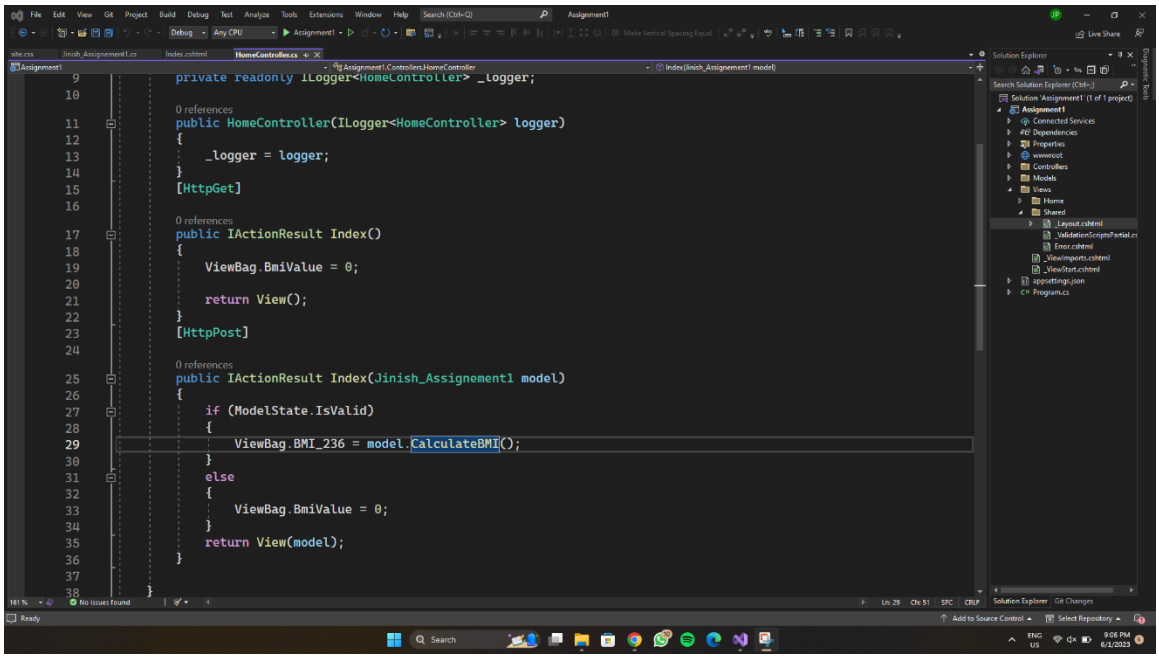
Controller:

Using controller to control which template will be used as GET request and POST request.

Code:

```
using Assignment1.Models;
using Microsoft.AspNetCore.Mvc;
using System.Diagnostics;

namespace Assignment1.Controllers
{
    public class HomeController : Controller
    {
        private readonly ILogger<HomeController> _logger;

        public HomeController(ILogger<HomeController> logger)
        {
            _logger = logger;
        }
        [HttpGet]

        public IActionResult Index()
        {
            ViewBag.BmiValue = 0;

            return View();
        }
        [HttpPost]

        public IActionResult Index(Jinish_Assignement1 model)
        {
            if (ModelState.IsValid)
            {
                ViewBag.BMI_236 = model.CalculateBMI();
            }
            else
            {
                ViewBag.BmiValue = 0;
            }
            return View(model);
        }

    }
}
```

Screenshot:



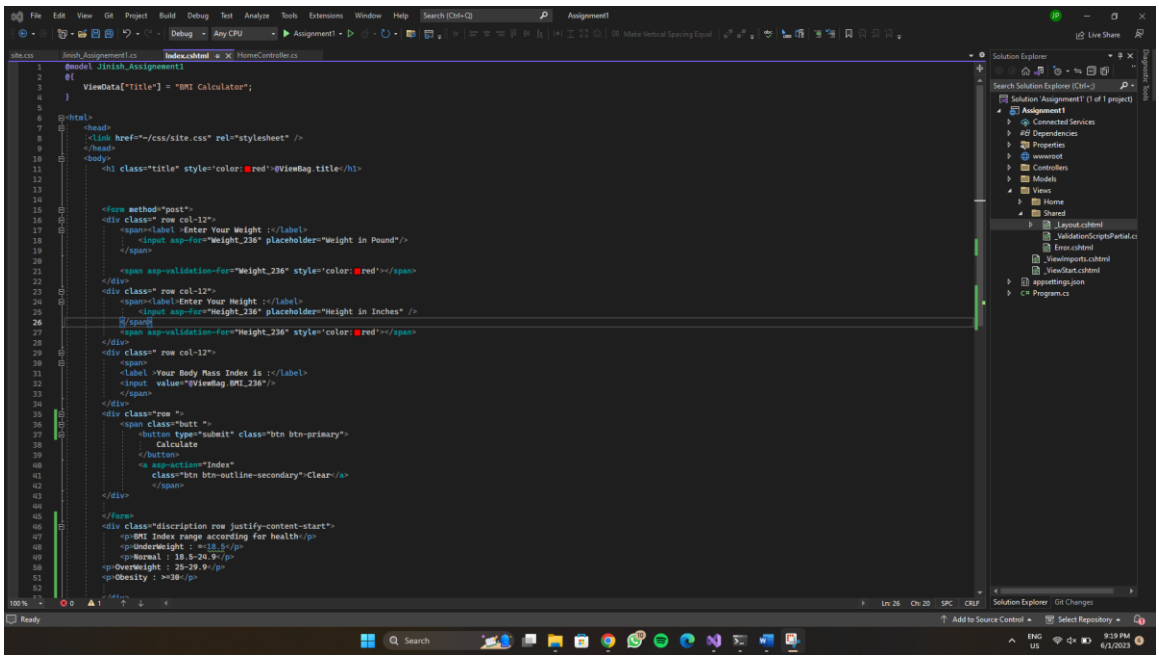
HTML file: Index.html

Code:

```
@model Jinish_Assignement1
@{
    ViewData["Title"] = "BMI Calculator";
}

<html>
    <head>
     <link href="~/css/site.css" rel="stylesheet" />
    </head>
    <body>
        <h1 class="title" style='color:red'>@ViewBag.title</h1>



        <form method="post">
        <div class=" row col-12">
            <span><label >Enter Your Weight :</label>
                <input asp-for="Weight_236" placeholder="Weight in Pound"/>
            </span>

            <span asp-validation-for="Weight_236" style='color:red'></span>
        </div>
        <div class=" row col-12">
            <span><label>Enter Your Height :</label>
                <input asp-for="Height_236" placeholder="Height in Inches" />
```

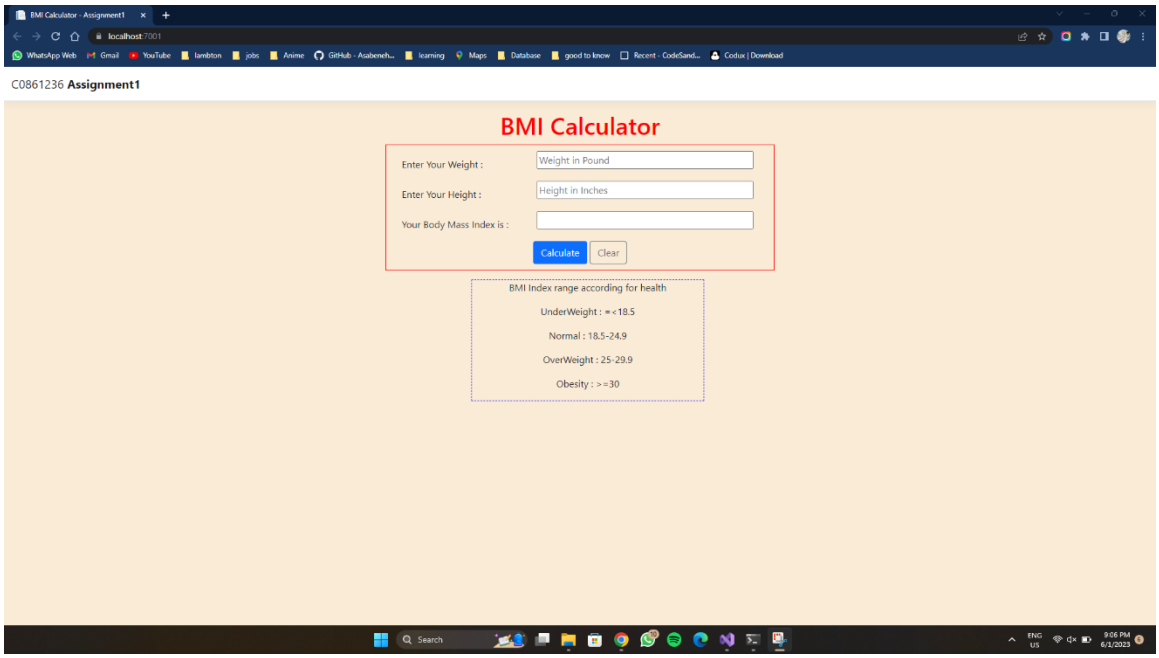
```
            </span>
            <span asp-validation-for="Height_236" style='color:red'></span>
        </div>
        <div class=" row col-12">
            <span>
            <label >Your Body Mass Index is :</label>
            <input  value="@ViewBag.BMI_236"/>
            </span>
        </div>
        <div class="row ">
            <span class="butt ">
                <button type="submit" class="btn btn-primary">
                    Calculate
                </button>
                <a asp-action="Index"
                   class="btn btn-outline-secondary">Clear</a>
                   </span>
        </div>

        </form>
        <div class="discription row justify-content-start">
            <p>BMI Index range according for health</p>
            <p>UnderWeight : =<18.5</p>
            <p>Normal : 18.5-24.9</p>
        <p>OverWeight : 25-29.9</p>
        <p>Obesity : >=30</p>

        </div>
        </body>

</html>
```

Screenshot:

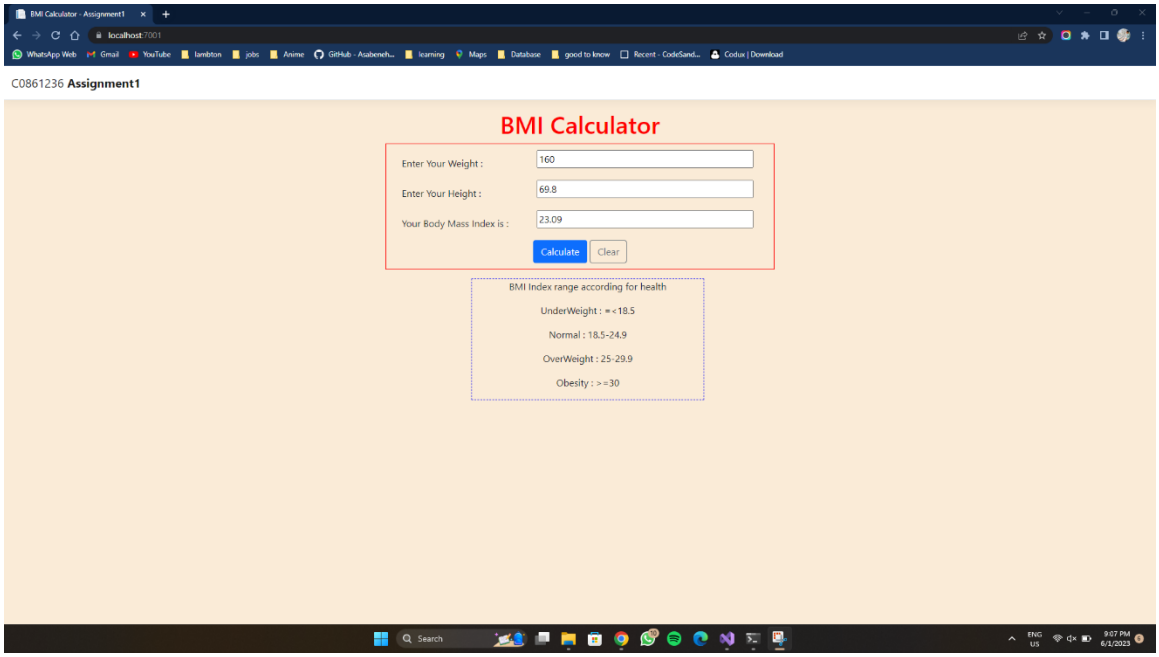


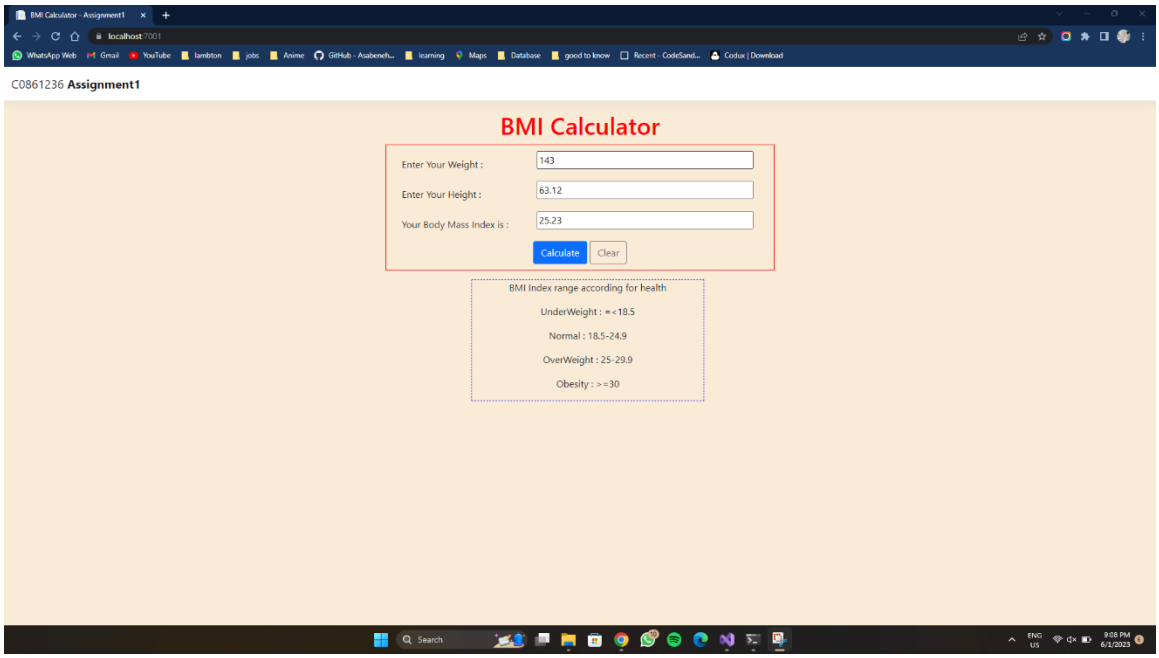
Output:

Static output:



Examples:




BMI Calculator - Assignment1
localhost:7001
C0861236 Assignment1
BMI Calculator
Enter Your Weight :
143
Enter Your Height :
63.12
Your Body Mass Index is :
25.23
Calculate
Clear
BMI Index range according for health
UnderWeight : =<18.5
Normal : 18.5-24.9
OverWeight : 25-29.9
Obesity : >=30