

Paravastu Lawn Mowing Services Application: Instructions

Problem statement:

Lawn Mowing season lasts 20 weeks. The weekly charge for mowing a lawn are as follows:

- for 10000 square feet or less: \$25 per week.
- 10000 to 25000 square feet: \$30 per week.
- 25000 to 35000 square feet: \$35 per week.
- above 35000 square feet: \$40 per week.

Create a web form and get the customer name, lawn area in SFT, and number of weeks as form inputs from the customer. Once inputs are valid: calculate the quote for the area and number of weeks of lawn mowing requested, and then display the result in a different page.

Implementation:

1. Create a new ASP.Net Core MVC - C# project. Name the project as *yourLastnameWeek2W*
2. Delete all the controllers in the controllers folder.
3. Delete all the models in the models folder.
4. Delete all the views inside the Views → Home folder.
5. Delete all files inside Views → shared folder.
6. Delete the _viewStart.chhtml file inside the Views folder as well.
7. Now: Right click on Controllers folder → Add → Controller: Add one empty controller called HomeController.cs
8. Right click on Models folder → Add → class: Add one c# class and name it as MowersModel.cs
9. Right click on Views-> Home folder → Add → View: Add one empty Razor view called Index.cshtml
10. Right click on Views → Home folder → Add → View: Add one more empty Razor view called LawnQuote.cshtml

Your project set up is complete. Now follow the code given to you and implement the Lawn Mowing Service application.

[illegible]

```

1 using Microsoft.AspNetCore.Mvc;
2 using ParavastuLawnMowers.Models;
3
4 namespace ParavastuLawnMowers.Controllers
5 {
6     public class HomeController : Controller
7     {
8         /*
9          * Created by Dr. Paravastu
10          * 22222222222222222222222222222222
11          */
12         public IActionResult Index()
13         {
14             return View();
15         }
16         [HttpPost] //this annotation is for the method to fire only on post method.
17         public IActionResult Index(MowersModel model)
18         {
19             if (ModelState.IsValid)
20             {
21                 model.CalculateQuote(); //call the model method to calculate quote.
22                 return View("LawnQuote",model);
23             }
24             return View("Index", model);
25         }
26     }
27 }
28 }
29

```

```
1  @*
2      Created by Dr. Paravastu
3      44444444444444444444444444444444
4      //note the @model directive at the top of the view. This will allow you to
5          access the model's properties and methods from this view.
6
7  *@
8  @model MowersModel
9
10 <!DOCTYPE html>
11 <html>
12     <head>
13         <!-- Created by Dr. Paravastu -->
14         <title>Paravastu Lawn Mowing</title>
15         <meta name="viewport" content="width=device-width" />
16         <meta charset="UTF-8">
17     </head>
18     <body>
19         <h1>Paravastu Lawn Mowing Services</h1>
20         <h3>Binding Model</h3>
21         @*display the results by accessing the properties using the @Model and dot
22             notation to access the MowersModel's properties.*@
23         <h4>Quote for @Model.Name</h4>
24         <p>Total Area to be Mowed: @Model.Area Sft.</p>
25         <p>Number of Weeks: @Model.NumberOfWeeks</p>
26         <p>Amount Quoted for Lawn Mowing Services: @Model.Quote.ToString("n2")</p>
27     </body>
28 </html>
```

```
1  @*
2      Created by Dr.Paravastu
3      333333333333333333333333
4  *@
5  @model MowersModel //You will need to add this declaration in order to map your
6      properties in the model, to the form controls on this view.
7
8  <!DOCTYPE html>
9  <html>
10     <head>
11         <!-- Created by Dr. Paravastu -->
12         <title>Paravastu Lawn Mowing</title>
13         <meta name="viewport" content="width=device-width" />
14         <meta charset="UTF-8">
15     </head>
16     <body>
17         <h1>Paravastu Lawn Mowing Services</h1>
18         <h3>Binding Model</h3>
19         <p>Lawn mowing season typically lasts 20 weeks. The weekly charge for
20             mowing a lawn are as follows:
21             <ul> If your lawn size is:
22                 <li>10000 square feet or less: $25 per week.</li>
23                 <li>10000 to 25000 square feet: $30 per week.</li>
24                 <li>25000 to 35000 square feet: $35 per week.</li>
25                 <li>above 35000 square feet: $40 per week.</li>
26             </ul>
27         </p>
28         <form asp-action="Index" asp-controller="Home" method='POST'>
29             <p>
30                 <label asp-for="Name">Enter Your Name: </label><input asp-
31                     for="Name" />
32             </p>
33             <p>
34                 <label asp-for="Area">Enter Lawn Area in Square Feet (min 1000
35                     sft): </label><input asp-for="Area" />
36             </p>
37             <p>
38                 <label asp-for="NumberOfWeeks">Enter Number of weeks (between 1
39                     and 20): </label><input asp-for="NumberOfWeeks" />
40             </p>
41             <p><input type="submit" /> </p>
42         </form>
43     </body>
44 </html>
```