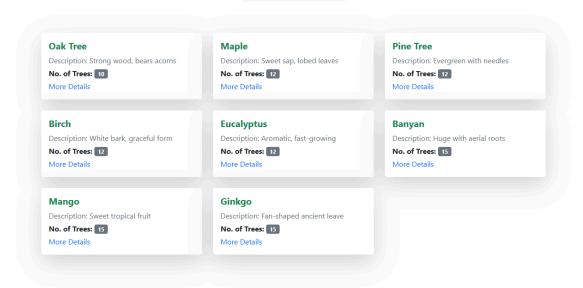
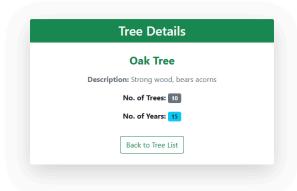
Welcome to Tree World

Get All Trees As JSON

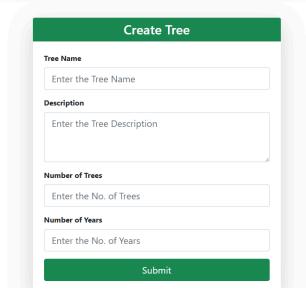


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Trees.cshtml

```
@{
  ViewData["Title"] = "Tree Page";
@model List<MyTree>
<div class="container py-5">
  <div class="row mb-5 justify-content-center">
     <div class="col-lg-8 text-center">
       <h1 class="display-4 fw-bold mb-3 text-success">
         <i class="bi bi-tree-fill"></i> Welcome to Tree World
       </h1>
       <a asp-controller="Tree" asp-action="GetAllTreesAsJson" class="btn btn-success btn-lg"
shadow-sm mb-4">
         <i class="bi bi-box-arrow-down"></i> Get All Trees As JSON
       </a>
     </div>
  </div>
  <div class="row">
     @if (Model != null && Model.Count > 0)
       @foreach (var Tree in Model)
         <div class="col-md-6 col-lg-4 mb-4">
```

```
<div class="card border-0 shadow-lg rounded-4 h-100 position-relative">
             <div class="card-body">
                <h5 class="card-title fw-bold text-success mb-2">
                  <i class="bi bi-tag"></i> @Tree.Name
                </h5>
                <i class="bi bi-card-text"></i>
                  <span class="fw-semibold">Description:</span>
                  <span>@Tree.Description</span>
                <i class="bi bi-stack"></i>
                  <strong>No. of Trees:</strong>
                  <span class="badge bg-secondary">@Tree.No_of_Trees</span>
                <a asp-action="Detail" asp-route-Id="@Tree.Id" class="stretched-link
text-decoration-none">
                  <i class="bi bi-info-circle"></i> More Details
                </a>
             </div>
           </div>
         </div>
      }
    }
    else
       <div class="col-12 text-center">
         <div class="alert alert-info shadow">
           <i class="bi bi-emoji-frown"></i> No trees found. Try adding a new one!
         </div>
       </div>
  </div>
</div>
@section Scripts {
  @{
    await Html.RenderPartialAsync(" ValidationScriptsPartial");
  }
}
```

CreateTree.cshtml

```
@{
  ViewData["Title"] = "Create Tree";
@model MyTree
<div class="container mt-5">
  <div class="row justify-content-center">
     <div class="col-lg-6 col-md-8">
       <div class="card shadow-lg border-0 rounded-4">
          <div class="card-header bg-success text-white text-center rounded-top">
            <h3 class="mb-0"><i class="bi bi-tree-fill"></i> Create Tree</h3>
          </div>
         <div class="card-body p-4">
            <form asp-action="CreateAction">
               <div class="mb-3">
                 <label class="form-label fw-bold"><i class="bi bi-tag"></i> Tree Name</label>
                 <input class="form-control form-control-lg" type="text" placeholder="Enter the
Tree Name" asp-for="Name" />
                 <span asp-validation-for="Name" class="text-danger small"></span>
               </div>
               <div class="mb-3">
                 <a href="class="form-label-fw-bold"><i class="bi-bi-card-text"></i>
Description</label>
                 <textarea class="form-control form-control-lg" rows="3" placeholder="Enter the
Tree Description" asp-for="Description"></textarea>
                 <span asp-validation-for="Description" class="text-danger small"></span>
               </div>
               <div class="mb-3">
                 <a href="class="form-label fw-bold"><i class="bi bi-stack"></i> Number of
Trees</label>
                 <input class="form-control form-control-lg" type="number" min="1"</pre>
placeholder="Enter the No. of Trees" asp-for="No_of_Trees" />
                 <span asp-validation-for="No of Trees" class="text-danger small"></span>
               </div>
               <div class="mb-3">
```

```
<a href="class="form-label fw-bold"><i class="bi bi-calendar-check"></i> Number</a>
of Years</label>
                 <input class="form-control form-control-lg" type="number" min="1"
placeholder="Enter the No. of Years" asp-for="No of years" />
                 <span asp-validation-for="No_of_years" class="text-danger small"></span>
               </div>
               <div class="d-grid">
                 <button class="btn btn-success btn-lg" type="submit">
                    <i class="bi bi-check-circle"></i> Submit
                 </button>
               </div>
            </form>
          </div>
       </div>
     </div>
  </div>
</div>
@section Scripts {
  @{
     await Html.RenderPartialAsync("_ValidationScriptsPartial");
  }
}
Details.cshtml
@{
  ViewData["Title"] = "Detail Page";
@model MyTree
<div class="container py-5">
  <div class="row justify-content-center">
     <div class="col-lg-6 col-md-8">
       <div class="card border-0 shadow-lg rounded-4">
          <div class="card-header bg-success text-white text-center rounded-top">
            <h3 class="mb-0">
```

```
<i class="bi bi-tree-fill"></i> Tree Details
           </h3>
         </div>
         <div class="card-body text-center p-4">
           <h4 class="fw-bold text-success mb-3">
              <i class="bi bi-tag"></i> @Model.Name
           </h4>
           @if (!string.lsNullOrWhiteSpace(Model.Description))
              <i class="bi bi-card-text"></i>
                <strong>Description:</strong> @Model.Description
              }
           >
              <i class="bi bi-stack"></i>
              <strong>No. of Trees:</strong>
              <span class="badge bg-secondary">@Model.No_of_Trees</span>
           >
              <i class="bi bi-calendar-check"></i>
              <strong>No. of Years:</strong>
              <span class="badge bg-info text-dark">@Model.No_of_years</span>
           <a asp-action="Index" class="btn btn-outline-success mt-3">
              <i class="bi bi-arrow-left"></i> Back to Tree List
           </a>
         </div>
       </div>
    </div>
  </div>
</div>
```

TreeModel.cs

```
using System.ComponentModel.DataAnnotations;
namespace NewMvc.Models
  public class MyTree
    public int Id { get; set; }
    [Required]
    [StringLength(25,MinimumLength =5)]
    public string Name { get; set; }
    [Required]
    [StringLength(25, MinimumLength = 5)]
    public string Description { get; set; }
    [Required]
    [Range(0,20)]
    public int No_of_Trees { get; set; }
    [Required]
    [Range(0,20)]
    public int No_of_years { get; set; }
  }
TreeController.cs
using Microsoft.AspNetCore.Mvc;
using NewMvc.Context;
using NewMvc.Models;
using System. Diagnostics;
namespace NewMvc.Controllers
  public class TreeController: Controller
  {
    public List<MyTree> ListofTrees = new List<MyTree>();
    TreeDbContext appDbContext;
    public TreeController(TreeDbContext _appDbContext)
```

```
appDbContext =_appDbContext;
    }
     public IActionResult CreateAction(MyTree myTree)
       if (ModelState.IsValid)
         appDbContext.MyTrees.Add(myTree);;
         appDbContext.SaveChanges();
         return RedirectToAction("Index");
       }
       else
       {
         return RedirectToAction("CreatePage");
       }
    }
    public JsonResult GetAllTreesAsJson()
       var allTrees = appDbContext.MyTrees.ToList();
       return Json(allTrees);
    }
    public IActionResult Index()
       return View(appDbContext.MyTrees.ToList());
    [Route("Tree/Details/{Id:int}")]
    public IActionResult Detail(int Id)
       var selected = appDbContext.MyTrees.Where(x => x.Id == Id).FirstOrDefault();
       return View(selected);
    public IActionResult CreatePage()
       return View();
}
```