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MiniProject-2

12/08/2025

Ticket Booking Applcation:

BookTicketController.cs

```csharp
using Microsoft.AspNetCore.Mvc;

using MiniProject2.Context;

using MiniProject2.Models;


namespace MiniProject2.Controllers

{

    public class BookTicketController : Controller

    {

        public AppDbContext context { get; set; }

        public BookTicketController(AppDbContext context)

        {

            this.context= context;

        }


        public IActionResult Index()

        {

            string gender = TempData["Gender"] as string;

            List<Audience> allAudience;


            if (!string.IsNullOrEmpty(gender))

            {

                allAudience = context.audiences.Where(a => a.Gender == gender).ToList();

            }

            else

            {
```

```csharp
            allAudience = context.audiences.ToList();

    }


    var totalAudience = allAudience.Count();

    var averageAge = Math.Round(allAudience.Average(a => a.Age), 2);


    ViewBag.TotalAudience = totalAudience;

    ViewBag.AverageAge = averageAge;


    return View(allAudience);

}


public IActionResult BookTicket()

{

    return View();

}

public IActionResult Ticket(Audience audience)

{

    if (ModelState.IsValid)

    {

        context.audiences.Add(audience);

        context.SaveChanges();

        return RedirectToAction("Index");

    }

    else

    {

        return RedirectToAction("BookTicket");

    }

}

public IActionResult Delete(string name)

{
```

```csharp
            var audience = context.audiences.FirstOrDefault(a => a.Name == name);

            context.audiences.Remove(audience);

            context.SaveChanges();

            return RedirectToAction("Index");

        }


        public IActionResult FilterByGender(string gender)

        {

            var audiences = context.audiences.Where(a => a.Gender == gender).ToList();

            TempData["Gender"] = gender;

            return RedirectToAction("Index");

        }

        public IActionResult Details(string name)

        {

            var audience=context.audiences.FirstOrDefault(a => a.Name==name);

            return View(audience);

        }

    }

}
```

HomeController.cs

```csharp
using System.Diagnostics;

using Microsoft.AspNetCore.Mvc;

using MiniProject2.Models;


namespace MiniProject2.Controllers

{

    public class HomeController : Controller

    {

        private readonly ILogger<HomeController> _logger;


        public HomeController(ILogger<HomeController> logger)
```

```csharp
        {
            _logger = logger;
        }


        public IActionResult Index()
        {
            return View();
        }



        public IActionResult Privacy()
        {
            return View();
        }


        [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]
        public IActionResult Error()
        {
            return View(new ErrorViewModel { RequestId = Activity.Current?.Id ?? HttpContext.TraceIdentifier });
        }
    }
}
```

AppDbContext.cs

```csharp
using Microsoft.EntityFrameworkCore;
using MiniProject2.Models;


namespace MiniProject2.Context
{
    public class AppDbContext:DbContext
    {
```

```csharp
        public AppDbContext(DbContextOptions<AppDbContext> options) : base(options) { }


        public DbSet<Audience> audiences { get; set; }



    }
}
```

index.cshtml

```cshtml
@{
    ViewData["Title"] = "Home Page";
}
@model List<Audience>


@{
    var total = ViewBag.TotalAudience;

    var average = ViewBag.AverageAge;
}


<div class="container mt-5">

    <!-- Heading -->
    <div class="row">

        <div class="col text-center">

            <h1 class="display-5 mb-3">Booking Details</h1>

        </div>

    </div>


    <!-- Booking Summary: Side-by-Side -->
    <div class="row justify-content-center mb-4">

        <div class="col-md-6">

            <div class="d-flex justify-content-around alert alert-info shadow-sm text-center">

                <div>

                    <strong>Total Bookings:</strong><br /> @total
```

```html
                    </div>

                    <div>

                        <strong>Average Age:</strong><br /> @Math.Round((double)average, 2)

                    </div>

                </div>

                <div class="btn-group" role="group">

                    <a class="btn btn-outline-primary" asp-action="FilterByGender"
asp-route-gender="Male">Male</a>

                    <a class="btn btn-outline-secondary" asp-action="FilterByGender"
asp-route-gender="Female">Female</a>

                </div>


            </div>

        </div>


        <!-- Audience Table -->

        <div class="row">

            <div class="col">

                <table class="table table-striped table-hover shadow-sm">

                    <thead class="table-dark">

                        <tr>

                            <th>Name</th>

                            <th>Gender</th>

                            <th>Age</th>

                            <th>Date of Birth</th>

                            <th>Detail</th>

                            <th>Delete</th>

                        </tr>

                    </thead>

                    <tbody>

                        @foreach (var audience in Model)

                        {
```

```html
                            <tr>

                                <td>@audience.Name</td>

                                <td>@audience.Gender</td>

                                <td>@audience.Age</td>

                                <td>@audience.DateOfBirth</td>

                                <td>

                                    <a class="btn btn-sm btn-primary" asp-action="Details"
asp-route-name="@audience.Name">Details</a>

                                </td>

                                <td>

                                    <a class="btn btn-primary" asp-action="Delete"
asp-route-name="@audience.Name">Delete</a>

                                </td>

                            </tr>

                        }

                    </tbody>

                </table>

            </div>

        </div>

</div>
```

details.cshtml

```html
@model Audience


<div class="container mt-5">

    <div class="row justify-content-center">

        <div class="col-md-6">

            <div class="card shadow-sm">

                <div class="card-header bg-primary text-white">

                    <h4 class="mb-0">Audience Details</h4>

                </div>

                <div class="card-body">

                    <table class="table table-bordered table-striped mb-0">
```

```html
                    <tbody>
                        <tr>
                            <th style="width: 30%;">Name</th>
                            <td>@Model.Name</td>
                        </tr>
                        <tr>
                            <th>Gender</th>
                            <td>@Model.Gender</td>
                        </tr>
                        <tr>
                            <th>Age</th>
                            <td>@Model.Age</td>
                        </tr>
                        <tr>
                            <th>Date Of Birth</th>
                            <td>@Model.DateOfBirth</td>
                        </tr>
                    </tbody>
                </table>
            </div>
            <div class="card-footer text-end">
                <a asp-action="Index" class="btn btn-secondary">Back to List</a>
            </div>
        </div>
    </div>
</div>
```

index.cshtml

```
@{
    ViewData["Title"] = "Home Page";
}
```

```html
<!-- Bootstrap Carousel -->

<div id="homeCarousel" class="carousel slide" data-bs-ride="carousel">

    <div class="carousel-inner">

        <div class="carousel-item active">

            <img src="/images/Coolie.jpg" class="d-block w-100" alt="Slide 1" style="height: 90vh; object-fit: cover;">

        </div>

        <div class="carousel-item">

            <img src="~/images/Coolie1.png" class="d-block w-100" alt="Slide 2" style="height: 90vh; object-fit: cover;">

        </div>

        <div class="carousel-item">

            <img src="~/images/images.png" class="d-block w-100" alt="Slide 3" style="height: 90vh; object-fit: cover;">

        </div>

    </div>

</div>


<!-- Overlay Welcome Section -->

<div class="carousel-caption d-flex flex-column justify-content-center align-items-center h-100 text-center text-white" style="top: 0; bottom: 0;">

    <div class="bg-dark bg-opacity-50 p-5 rounded">

        <h1 class="display-4 fw-bold text-white">Welcome to Coolie Ticket Booking</h1>

        <p class="lead mt-3 mb-4 text-light">

            Book your coolie assistance with ease and save time at the station.

        </p>

        <a class="btn btn-lg btn-success px-4" asp-controller="BookTicket" asp-action="BookTicket">

            Book Ticket

        </a>

    </div>

</div>
```

Program.cs

```csharp
using Microsoft.EntityFrameworkCore;
```

```csharp
using MiniProject2.Context;

var builder = WebApplication.CreateBuilder(args);

// Add services to the container.
builder.Services.AddControllersWithViews();

const string connectionstring = "Data Source=PTPLL605;" +
            "Initial Catalog=sampledb;" +
            "Integrated Security=True;" +
        "TrustServerCertificate=True;";

builder.Services.AddDbContext<AppDbContext>(x => x.UseSqlServer(connectionstring));

var app = builder.Build();

// Configure the HTTP request pipeline.
if (!app.Environment.IsDevelopment())
{
    app.UseExceptionHandler("/Home/Error");
    // The default HSTS value is 30 days. You may want to change this for production scenarios, see
https://aka.ms/aspnetcore-hsts.
    app.UseHsts();
}

app.UseHttpsRedirection();
app.UseStaticFiles();

app.UseRouting();

app.UseAuthorization();
```

```
app.MapControllerRoute(

    name: "default",

    pattern: "{controller=Home}/{action=Index}/{id?}");


app.Run();
```

BookTicket.cshtml

```
@model Audience


<div class="container mt-5">

    <div class="row justify-content-center">

        <div class="col-md-6">

            <div class="card shadow-sm">

                <div class="card-header bg-primary text-white">

                    <h4 class="mb-0">Audience Ticket Form</h4>

                </div>

                <div class="card-body">

                    <form asp-action="Ticket" method="post" novalidate>

                        <div class="mb-3">

                            <label asp-for="Name" class="form-label">Name</label>

                            <input asp-for="Name" class="form-control" placeholder="Enter your name" />

                            <span asp-validation-for="Name" class="text-danger small"></span>

                        </div>


                        <div class="mb-3">

                            <label asp-for="Gender" class="form-label">Gender</label>

                            <select asp-for="Gender" class="form-select">

                                <option value="">-- Select Gender --</option>

                                <option value="Male">Male</option>

                                <option value="Female">Female</option>
```

```html
                    </select>

                    <span asp-validation-for="Gender" class="text-danger small"></span>

                </div>


                <div class="mb-3">

                    <label asp-for="Age" class="form-label">Age</label>

                    <input asp-for="Age" type="number" class="form-control" placeholder="Enter your
age" />

                    <span asp-validation-for="Age" class="text-danger small"></span>

                </div>

                <div class="mb-3">

                    <label asp-for="DateOfBirth" class="form-label">DateOfBirth</label>

                    <input asp-for="DateOfBirth" type="date" class="form-control" placeholder="Enter
your date of birth" />

                </div>


                <button type="submit" class="btn btn-primary w-100">Submit</button>

            </form>

        </div>

    </div>

    </div>

</div>


@section Scripts {

    @{

        await Html.RenderPartialAsync("_ValidationScriptsPartial");

    }

}
```

Audience.cs

```csharp
using Microsoft.EntityFrameworkCore;

using System.ComponentModel.DataAnnotations;
```

```csharp
namespace MiniProject2.Models
{
    public class Audience
    {
        public int Id { get; set; }


        [Required]
        [StringLength(25, MinimumLength = 5, ErrorMessage = "Name must be between 5 and 25 characters.")]
        public string Name { get; set; }


        public string Gender { get; set; }


        [Range(6, 90, ErrorMessage = "Age must be greater than 5.")]
        public int Age { get; set; }


        public DateOnly DateOfBirth { get; set; }
    }
}
```
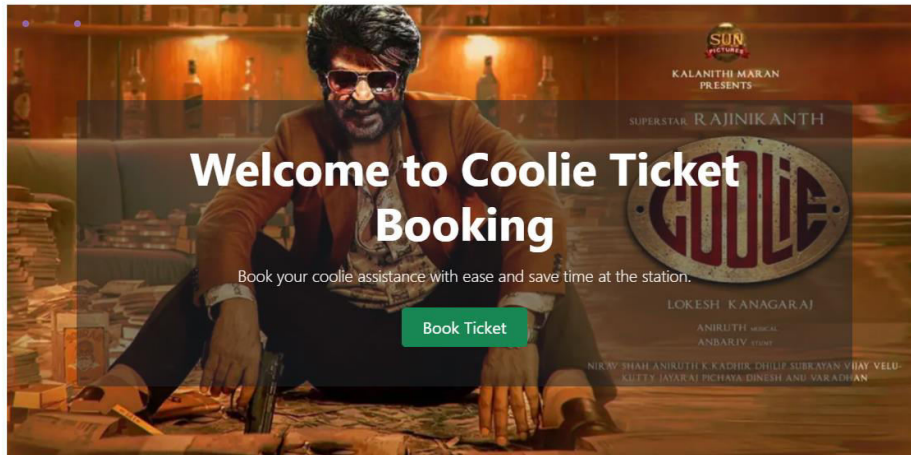
Package Manger Console Command for update db:

Add-Migration

Update-Database

Output

Welcome to Coolie Ticket Booking

Book your coolie assistance with ease and save time at the station.

Book Ticket

Audience Ticket Form

Name

Enter your name

Gender

-- Select Gender --

Age

Enter your age

DateOfBirth

dd-mm-yyyy

Submit

Booking Details

	Total Bookings:	Average Age:
	4	23

Male | Female

Name	Gender	Age	Date of Birth	Detail	Delete
ramesh	Male	21	20-03-2004	Details	Delete
sarava	Male	23	22-09-2002	Details	Delete
ramya	Female	23	11-02-2002	Details	Delete
kumar	Male	25	09-07-2000	Details	Delete

Audience Details

Name	ramesh
Gender	Male
Age	21
Date Of Birth	20-03-2004

Back to List