

**CODE**

```
using Day12.Context;
using Day12.Models;
using Microsoft.AspNetCore.Authorization;
using Microsoft.AspNetCore.Mvc;
using Microsoft.EntityFrameworkCore;
using System.Diagnostics.Eventing.Reader;
using System.Reflection;

namespace Day12.Controllers
{
    [ApiController]
    [Route("[controller]")]
    public class MovieController : Controller
    {

        MyAppDbContext appDbContext;

        public MovieController(MyAppDbContext DbContext)
        {
            appDbContext = DbContext;
        }

        [HttpPost("AddMovie")]
        public IActionResult AddMovie(Movie movie)
        {
            appDbContext.Movies.Add(movie);
            appDbContext.SaveChanges();
            return Ok("Added Movie");
        }

        [Authorize]
        [HttpGet("GetMovies")]
        public IActionResult GetMovies()
        {
            return Ok(appDbContext.Movies.ToList());
        }

        [HttpGet("GetbyID")]
        public IActionResult GetByld(int MovieId)
        {
            return Ok(appDbContext.Movies.FirstOrDefault(m => m.MovieId == MovieId));
        }
    }
}
```

```
var SelectedMovie = appDbContext.Movies.Where(x => x.Id == MovieId);  
return Ok(SelectedMovie);  
}
```

```
[HttpDelete("DeletebyId")]  
public IActionResult DelMovie(int MovieId)  
{  
    var SelectedMovie = appDbContext.Movies.Where(x => x.Id == MovieId).First();  
    appDbContext.Movies.Remove(SelectedMovie);  
    appDbContext.SaveChanges();  
    return Ok("Movie Deleted");  
}
```

```
[HttpPost("GetBooksOrderedByCollection")]  
public IActionResult GetBooksOrderedByCollection([FromBody] bool isAscending)  
{  
    var orderedMovies = isAscending  
        ? appDbContext.Movies.OrderBy(m => m.Collection).ToList()  
        : appDbContext.Movies.OrderByDescending(m => m.Collection).ToList();  
  
    return Ok(orderedMovies);  
}
```

```
[HttpGet("GetTop5Collection")]  
public IActionResult GetTop5Collection()  
{  
    var topMovies = appDbContext.Movies  
        .OrderByDescending(m => m.Collection)  
        .Take(5)  
        .ToList();  
  
    return Ok(topMovies);  
}
```

```
[HttpGet("GetCollectionDetails")]  
public IActionResult GetCollectionDetails()  
{  
    var totalCollection = appDbContext.Movies.Sum(m => m.Collection);  
    var avgCollection = appDbContext.Movies.Any() ?  
Math.Round(appDbContext.Movies.Average(m => m.Collection), 2) : 0;  
  
    var result = new  
    {  
        TotalCollection = totalCollection + " Cr",
```

```
AverageCollection = avgCollection  
};  
  
return Ok(result);  
}  
  
}  
}
```

Request URL

`https://localhost:7196/Movie/GetBooksOrderedByCollection`

Server response

Code Details

200

Response body

```
[  
  {  
    "id": 11,  
    "movieName": "Thirupachi",  
    "director": "Perarasu",  
    "rating": 5,  
    "collection": 80  
  },  
  {  
    "id": 12,  
    "movieName": "Sivakasi",  
    "director": "Perarasu",  
    "rating": 5,  
    "collection": 90  
  },  
  {  
    "id": 5,  
    "movieName": "Thuppaki",  
    "director": "A R Murugadas",  
    "rating": 5,  
    "collection": 150  
  },  
  {  
    "id": 6,  
    "movieName": "Thalaiva",  
    "director": "A L Vijay",  
    "rating": 5,  
    "collection": 150  
  }  
]
```

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Request URL

`https://localhost:7196/Movie/GetBooksOrderedByCollection`

Server response

Code Details

200

Response body

```
[  
  {  
    "id": 1,  
    "movieName": "Leo",  
    "director": "LK",  
    "rating": 5.5,  
    "collection": 545  
  },  
  {  
    "id": 8,  
    "movieName": "Mersal",  
    "director": "Atlee",  
    "rating": 5,  
    "collection": 500  
  },  
  {  
    "id": 9,  
    "movieName": "Gilli",  
    "director": "Dharani",  
    "rating": 5,  
    "collection": 400  
  },  
  {  
    "id": 2,  
    "movieName": "Master",  
    "director": "LK",  
    "rating": 5,  
    "collection": 400  
  }  
]
```

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Request URL

`https://localhost:7196/Movie/GetTop5Collection`


Server response

Code	Details
200	<p>Response body</p> <pre>{   {     "id": 1,     "movieName": "Leo",     "director": "LK",     "rating": 5.5,     "collection": 545   },   {     "id": 9,     "movieName": "Mersal",     "director": "Atlee",     "rating": 5,     "collection": 500   },   {     "id": 8,     "movieName": "Gilli",     "director": "Dharani",     "rating": 5,     "collection": 400   },   {     "id": 2,     "movieName": "Master",     "director": "LK",     "rating": 5,     "collection": 400   } }</pre>  Download

Request URL

`https://localhost:7196/Movie/GetCollectionDetails`

Server response

Code	Details
200	<p>Response body</p> <pre>{   "totalCollection": "3365 Cr",   "averageCollection": 385.91 }</pre>  Download