

Day 11
Dharunya S

1. To the existing books table, add additional column called price and add at least ten entries with some price values.

1.1 Create a post request 'GetBooksOrderedByPrice()' with a boolean parameter

1.1.1 when parameter is true, then sort by price ascending order

1.1.2 when parameter is false, then sort by price descending order

1.2 Create a get request 'GetTop5Books()' which will return top 5 costliest books

1.3 Create a get request 'GetCostDetails()' which will return the total price and average price of all books.

```
[HttpPost("GetBookOrderedbyprice")]
```

```
public IActionResult GetBookOrderedbyprice(bool status)
```

```
{
    var books = appDbContext.Books.OrderBy(x => x.Price).ToList();
    if (status)
    {
        books = books.OrderBy(x => x.Price).ToList();
    }
    else
    {
        books = books.OrderByDescending(x => x.Price).ToList();
    }

    return Ok(books);
}
```

```
[HttpGet("GetTop5Book")]
```

```
public IActionResult GetTop5Book()
```

```
{
    var books = appDbContext.Books.OrderByDescending(x => x.Price).Take(5).ToList();

    return Ok(books);
}
```

```
[HttpGet("GetCostDetails")]
```

```
public IActionResult GetCostDetails()
```

```
{
    var books = appDbContext.Books.ToList();
    var total_cost = books.Sum(x => x.Price);
    var average_cost = books.Average(x => x.Price);
    return Ok(new
```

```

{
    TotalCost = total_cost,
    AverageCost = average_cost,
});
}

```

<http://localhost:5100/Book/GetBookOrderedbyprice?status=true>

```

[
  {
    "id": 8,
    "title": "1984 book",
    "description": "George Orwell's dystopian classic exploring government surveillance and totalitarianism.",
    "rating": 5,
    "price": 280
  },
  {
    "id": 7,
    "title": "The Alchemist",
    "description": "A novel by Paulo Coelho about a shepherd's journey to fulfill his personal legend.",
    "rating": 4,
    "price": 300
  },
  {
    "id": 13,
    "title": "The Great Gatsby",
    "description": "F. Scott Fitzgerald's classic novel about wealth, love, and the American Dream.",
    "rating": 4,
    "price": 320
  },
  {
    "id": 5,
    "title": "Atomic Habits",
    "description": "A self-help book about building good habits and breaking bad ones.",
    "rating": 4,
    "price": 350
  },
  {
    "id": 11,
    "title": "The Hobbit",

```

```
"description": "J.R.R. Tolkien's fantasy adventure about Bilbo Baggins and his quest for
treasure.",
  "rating": 5,
  "price": 370
},
{
  "id": 9,
  "title": "To Kill a Mockingbird",
  "description": "Harper Lee's timeless story about race, justice, and childhood in the Deep
South.",
  "rating": 5,
  "price": 400
},
{
  "id": 6,
  "title": "Educated",
  "description": "A memoir by Tara Westover about growing up in a survivalist family and
seeking education.",
  "rating": 5,
  "price": 420
},
{
  "id": 4,
  "title": "The Silent Patient",
  "description": "A psychological thriller about a woman's act of violence against her
husband—and her refusal to speak.",
  "rating": 5,
  "price": 499
},
{
  "id": 10,
  "title": "Becoming",
  "description": "Michelle Obama's inspiring memoir about her journey from Chicago to the
White House.",
  "rating": 4,
  "price": 550
},
{
  "id": 12,
  "title": "Sapiens",
  "description": "Yuval Noah Harari's exploration of human history from the Stone Age to the
modern era.",
  "rating": 4,
  "price": 600
```

```
}  
]
```

<http://localhost:5100/Book/GetBookOrderedbyprice?status=false>

```
[  
  {  
    "id": 12,  
    "title": "Sapiens",  
    "description": "Yuval Noah Harari's exploration of human history from the Stone Age to the  
modern era.",  
    "rating": 4,  
    "price": 600  
  },  
  {  
    "id": 10,  
    "title": "Becoming",  
    "description": "Michelle Obama's inspiring memoir about her journey from Chicago to the  
White House.",  
    "rating": 4,  
    "price": 550  
  },  
  {  
    "id": 4,  
    "title": "The Silent Patient",  
    "description": "A psychological thriller about a woman's act of violence against her  
husband—and her refusal to speak.",  
    "rating": 5,  
    "price": 499  
  },  
  {  
    "id": 6,  
    "title": "Educated",  
    "description": "A memoir by Tara Westover about growing up in a survivalist family and  
seeking education.",  
    "rating": 5,  
    "price": 420  
  },  
  {  
    "id": 9,  
    "title": "To Kill a Mockingbird",  
    "description": "Harper Lee's timeless story about race, justice, and childhood in the Deep  
South.",  
    "rating": 5,  
  }  
]
```

```
    "price": 400
  },
  {
    "id": 11,
    "title": "The Hobbit",
    "description": "J.R.R. Tolkien's fantasy adventure about Bilbo Baggins and his quest for treasure.",
    "rating": 5,
    "price": 370
  },
  {
    "id": 5,
    "title": "Atomic Habits",
    "description": "A self-help book about building good habits and breaking bad ones.",
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    "description": "F. Scott Fitzgerald's classic novel about wealth, love, and the American Dream.",
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    "price": 320
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  {
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    "title": "The Alchemist",
    "description": "A novel by Paulo Coelho about a shepherd's journey to fulfill his personal legend.",
    "rating": 4,
    "price": 300
  },
  {
    "id": 8,
    "title": "1984 book",
    "description": "George Orwell's dystopian classic exploring government surveillance and totalitarianism.",
    "rating": 5,
    "price": 280
  }
]
```

<http://localhost:5100/Book/GetTop5Book>

```
[
  {
    "id": 12,
    "title": "Sapiens",
    "description": "Yuval Noah Harari's exploration of human history from the Stone Age to the modern era.",
    "rating": 4,
    "price": 600
  },
  {
    "id": 10,
    "title": "Becoming",
    "description": "Michelle Obama's inspiring memoir about her journey from Chicago to the White House.",
    "rating": 4,
    "price": 550
  },
  {
    "id": 4,
    "title": "The Silent Patient",
    "description": "A psychological thriller about a woman's act of violence against her husband—and her refusal to speak.",
    "rating": 5,
    "price": 499
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  {
    "id": 6,
    "title": "Educated",
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    "rating": 5,
    "price": 420
  },
  {
    "id": 9,
    "title": "To Kill a Mockingbird",
    "description": "Harper Lee's timeless story about race, justice, and childhood in the Deep South.",
    "rating": 5,
    "price": 400
  }
]
```

<http://localhost:5100/Book/GetCostDetails>

```
{
  "totalCost": 4089,
  "averageCost": 408.9
}
```

	Id	Title	Description	Rating	Price
1	4	The Silent Patient	A psychological thriller about a woman's act of violence against her husband—and her refusal to speak.	5	499
2	5	Atomic Habits	A self-help book about building good habits and breaking bad ones.	4	350
3	6	Educated	A memoir by Tara Westover about growing up in a survivalist family and seeking education.	5	420
4	7	The Alchemist	A novel by Paulo Coelho about a shepherd's journey to fulfill his personal legend.	4	300
5	8	1984 book	George Orwell's dystopian classic exploring government surveillance and totalitarianism.	5	280
6	9	To Kill a Mockingbird	Harper Lee's timeless story about race, justice, and childhood in the Deep South.	5	400
7	10	Becoming	Michelle Obama's inspiring memoir about her journey from Chicago to the White House.	4	550
8	11	The Hobbit	J.R.R. Tolkien's fantasy adventure about Bilbo Baggins and his quest for treasure.	5	370
9	12	Sapiens	Yuval Noah Harari's exploration of human history from the Stone Age to the modern era.	4	600
10	13	The Great Gatsby	F. Scott Fitzgerald's classic novel about wealth, love, and the American Dream.	4	320