Team: NDY corp.

Midterm 2 Report



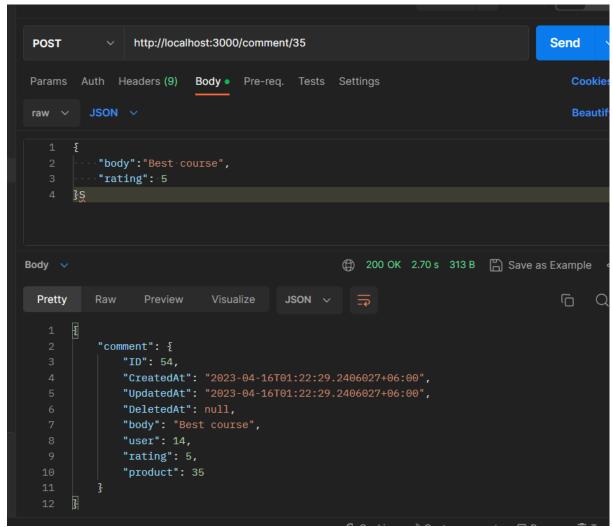
- 4) Filtering items based on price, rating
- 5) Giving rating for items
- 6) Commenting items

Link to the video~

Here is our filter based on *inputTitle* and *inputSort*.

```
func ListProducts(c *gin.Context) {
   qs := c.Request.URL.Query()
   inputTitle := qs.Get("title")
inputSort := qs.Get("sort")
   var products []models.Product
if inputTitle != "" && inputSort != "" {
        if inputSort[0] == '-' {
              = initializers.DB.Order(fmt.Sprint(inputSort[1:])).Find(&products, "title = ?", inputTitle)
            _ = initializers.DB.Order(fmt.Sprint(inputSort, " desc")).Find(&products, "title = ?", inputTitle)
   } else if inputTitle != "" {
          = initializers.DB.Find(&products, "title = ?", inputTitle)
    } else if inputSort != "" {
        if inputSort[0] == '-' {
            _ = initializers.DB.Order(fmt.Sprint(inputSort[1:])).Find(&products)
        } else {
            _ = initializers.DB.Order(fmt.Sprint(inputSort, " desc")).Find(&products)
        _ = initializers.DB.Find(&products)
   c.JSON(http.StatusOK, gin.H{"products": products})
```

Here is giving Rating and Commenting to our Products.



Here is shown how our rating is calculating.

So it takes sum of rating, for example max Value which user can give is 5. So let's say like:

1st User give 5 rating.

2nd User give 1 rating.

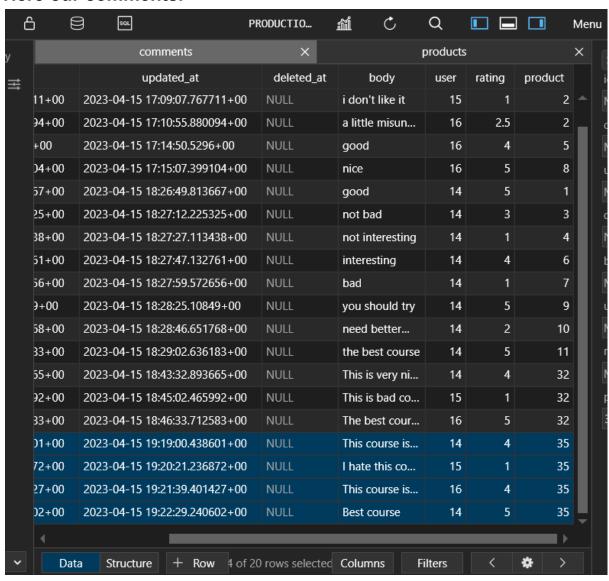
3rd User give 4 rating.

So it calculate like **5+1+4** / **3** divided my count of rating. So the result will be **3.3333333.**

```
initializers.DB.Table("comments").Where("product = ?", id).Select("sum(rating) as sm").Scan(&sum)
initializers.DB.Table("comments").Where("product = ?", id).Select("count(*) as cnt").Scan(&cnt)
avg := sum / cnt
initializers.DB.Model(&product).Update("rating", avg)

c.JSON(http.StatusOK, gin.H{"comment": comment})
}
```

Here our comments.



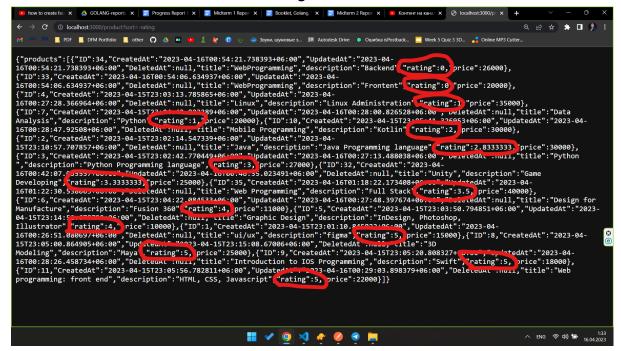
1.<u>http://localhost:3000/product?sort=rating</u> - Sorting products by rating from the largest to the smallest.

We have 5 rating types. As you can see it is sorted from Largest 5 to Smallest 1.

```
| Monte | Company | Compan
```

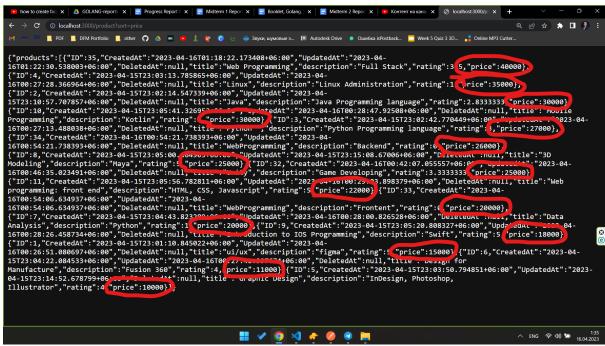
<u>http://localhost:3000/product?sort=-rating</u> - Sorting products by rating from the smallest to the largest.

it is sorted from Smallest 1 to Largest 5.



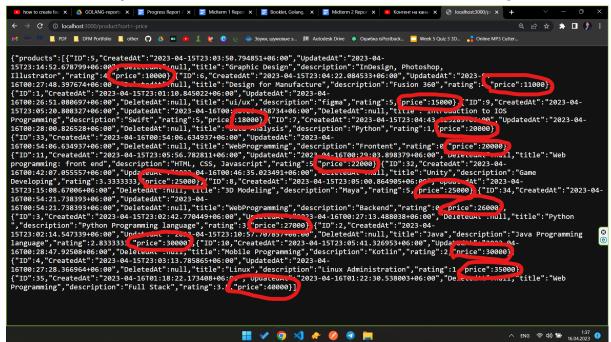
<u>http://localhost:3000/product?sort=price</u> - Sorting of products by price from the largest to the smallest.

We have our price. It is sorted from Largest 40000 to Smallest 10000.



http://localhost:3000/product?sort=-price - Sorting of products by price from the smallest to the largest.

We have our price. It is sorted from Smallest 10000 to Largest 40000.



http://localhost:3000/product?sort=-price&title=WebProgramming - Sorting products and searching at the same time.

Here we have two similar title: "WebProgramming". And this is by title and

price from smallest to largest

Here it is "price":20000 to "price":26000.

