MIDTERM2

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1 Filtering items based on price, rating

```
// filtering the books by arrange two price
func PriceFiltering(c *gin.Context) {
       from := c.Query("from") // getting first price
       to := c.Query("to")
                            // getting second price
       var books []models.Book
       // get all books from table with price between this two prices
       result := initializers.GetDB().Where("price >= ?", from).Where("price <= ?", to).Order("price").Find(&books)
       // return the error if failed to get books between two price
       if result.Error != nil {
              c.JSON(http.StatusBadRequest, gin.H{
                      "Error": "failed to get books between of prices",
       c.JSON(http.StatusOK, gin.H{
              "result": books,
// filtering books by rating
func RatingFiltering(c *gin.Context) {
       rating := c.Query("rating") // getting book rating
       result := initializers.GetDB().Where("rating >= ?", rating).Order("rating desc").Find(&books)
       if result.Error != nil {
              c.JSON(http.StatusBadRequest, gin.H{
                     "Error": "failed to get books by rating",
              })
       c.JSON(http.StatusOK, gin.H{
              "result": books,
```

2 Giving rating for items (rating can only be given by the client)

```
// for giving a ratings by clients
func GiveRating(c *gin.Context) {
        var body struct { // taking book title and rating for the book
                Title string //target title
                Rating float32
        if c.Bind(&body) != nil {
                c.JSON(http.StatusBadRequest, gin.H{
                        "error": "Failed to read body",
                })
        var target models.Book
        initializers. \texttt{GetDB().Find(\&target, "title=?", body.Title)} \ // \ taking \ book \ with \ target \ title
        avg := (body.Rating + target.Rating) / 2
        if body.Rating <= 5.0 { // if giving rating less or equal to 5 point then we update the rating for this book</pre>
                initializers.GetDB().Model(&target).Update("Rating", avg)
        c.JSON(http.StatusOK, gin.H{
                "Change book rating": avg,
```

3 Commenting items

```
// for removing the comment by id
func DeleteComment(c *ain.Context) {
        id := c.Param("id") // get target comment id
        var targetComment models.Comment
        initializers. \texttt{GetDB().Find(\&targetComment, "id=?", id)} \ // \ \texttt{getting comment with by id}
        initializers.GetDB().Find(&admin, "email=?", GetUserEmail(c)) // getting user who want to delete the comment
        if GetUserEmail(c) != targetComment.Author && admin.Type != "Admin" { // checking for owners the comment
                c.JSON(http.StatusBadRequest, gin.H{
                         "Error": "Only owners can delete his comments",
        initializers.GetDB().Delete(&targetComment, "id=?", id) // if its comment owner then we delete it
        c.JSON(http.StatusOK, gin.H{
                "Comment": "Successfully removed",
        })
func GetAllComments(c *gin.Context) {
        var comments []models.Comment
        initializers.GetDB().Find(&comments)
        c.JSON(http.StatusOK, gin.H{
                "Comments": comments,
```

```
// for removing the comment by id
func DeleteComment(c *gin.Context) {
        id := c.Param("id") // get target comment id
        var targetComment models.Comment
        initializers.GetDB().Find(&targetComment, "id=?", id) // getting comment with by id
        var admin models.User
        initializers.GetDB().Find(&admin, "email=?", GetUserEmail(c)) // getting user who want to delete the comment
        if GetUserEmail(c) != targetComment.Author && admin.Type != "Admin" { // checking for owners the comment
                c.JSON(http.StatusBadRequest, gin.H{
                        "Error": "Only owners can delete his comments",
        initializers.GetDB().Delete(&targetComment, "id=?", id) // if its comment owner then we delete it
        c.JSON(http.StatusOK, gin.H{
                "Comment": "Successfully removed",
// for getting all comments from table
func GetAllComments(c *gin.Context) {
        var comments []models.Comment
        initializers.GetDB().Find(&comments)
        c.JSON(http.StatusOK, gin.H{
                "Comments": comments,
```

```
// for getting target comments for books (by id)

func GetCommentsByID(c *gin.Context) {
    id := c.Param("id") // get target id
    var target models.Book
    initializers.GetDB().Find(&target, "id=?", id) // take target book
    var comments [Imodels.Comment
    initializers.GetDB().Find(&comments, "book=?", target.Title) // get all comment for this book
    c.JSON(http.StatusOK, gin.H{
        "Comments": comments,
    })
}

// for getting target comments for books (by book titles)

func GetCommentsForBook(title string) [Imodels.Comment {
    var comments [Imodels.Comment
    initializers.GetDB().Find(&comments, "book=?", title)
    return comments
}
```