Report 7

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For this week we have done:

1. Added endpoints for Detail, List, Create, Update, Delete methods for reviews.
2. Added one function which will be called after create and update reviews for autochanging product average rating.

We added two public and three private routes for reviews.
Public:

1. List Reviews.
   GET “http://127.0.0.1:8080/api/v1/product/:id/review”
2. Detail Review.
   GET “http://127.0.0.1:8080/api/v1/review/:id”

Private:

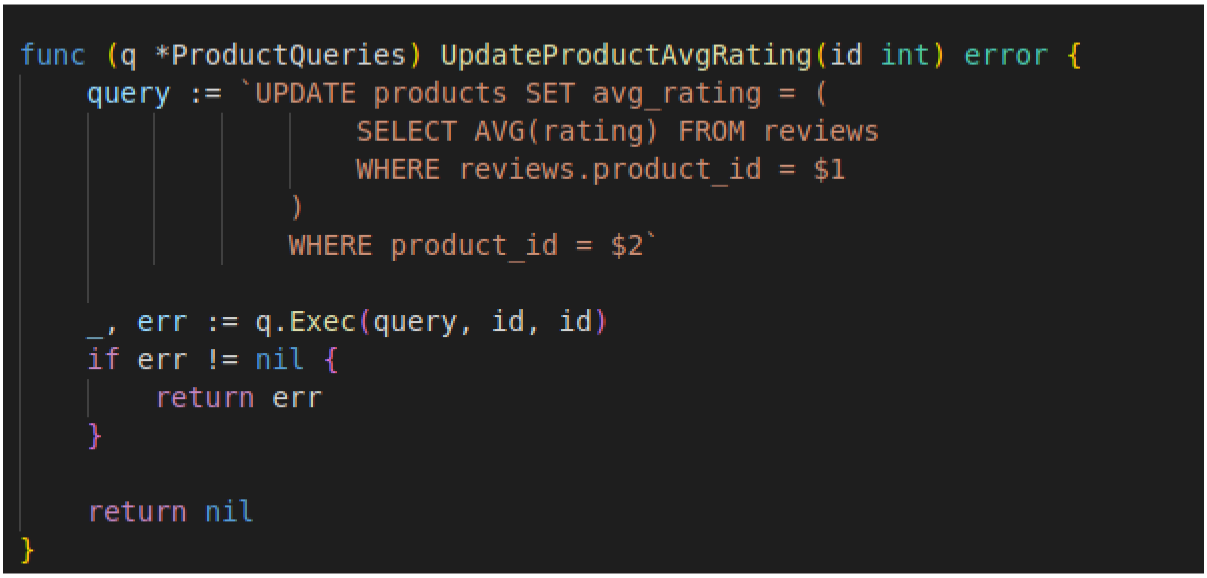
1. Create Review.
   POST “http://127.0.0.1:8080/api/v1/product/1/review”
2. Update Review.
   PUT “http://127.0.0.1:8080/api/v1/review/:id”
3. Delete Review.
   DELETE “http://127.0.0.1:8080/api/v1/review/:id”

Code of controller for this methods in file app/controllers/review_controller.go
Queries are in file app/queries/review_query.go

All routes working fine. Private routes require tokens, checks expiration time and user_id. One user can send only one review for one product. If he will try to send another one database will response error. We set this configuration to postgresql with this code:

```
CREATE TABLE reviews(
	…
	CONSTRAINT unique_user_product_review UNIQUE (user_id,
product_id)
);
```

After creating or updating review UpdateProductAvgRating method will be called automatically to set a new average rating.



```go
func (q *ProductQueries) UpdateProductAvgRating(id int) error {
    query := `UPDATE products SET avg_rating = (
                    SELECT AVG(rating) FROM reviews
                    WHERE reviews.product_id = $1
                )
                WHERE product_id = $2`

    _, err := q.Exec(query, id, id)
    if err != nil {
        return err
    }

    return nil
}
```

Other code in files I write above it will take too much place for showing them here.

For the next week:

Maybe we will work on containerizing or creating swagger documentation. And maybe soon we will send recording of explanation for second midterm. We will see later.