Golang Project
PROGRESS REPORT #10

Improved service work with db

1)The function first parses the purchase request from the JSON payload of the HTTP request using the json package. It then retrieves the corresponding product information from the database using the database/sql package and the db.QueryRow() method. If the product is not found, it returns a 404 Not Found error to the user.

```go
err := db.QueryRow("SELECT id, name, price FROM products", p
if err != nil {
    http.Error(w, "Product not found", http.StatusNotFound)
    return
}
```

2)If product information is successfully retrieved, the function calculates the total price of the purchase by multiplying the product price by the requested quantity. It then inserts a new record into the purchases table using the db.Exec() method.

3)The function constructs a JSON response containing the purchase information and returns it to the user using the json package and the http.ResponseWriter interface.

```go
response := struct {
    ProductID   int     `json:"product_id"`
    ProductName string  `json:"product_name"`
    Price       float64 `json:"price"`
    Quantity    int     `json:"quantity"`
    TotalPrice  float64 `json:"total_price"`
}{
    ProductID:   product.ID,
    ProductName: product.Name,
    Price:       product.Price,
    Quantity:    purchaseRequest.Quantity,
    TotalPrice:  total,
}
json.NewEncoder(w).Encode(response)
```

In the future it is planned to improve ui