
Instructors: Prof. M. Sobh

Time allowed: 90 mins

Maximum Grade: 15

Student Name:

Student ID:

Exam Instructions:

- Your computer should be ready with all required tools and documents.
- Your computer should contain the WebSecTest project as explained in Lecture and LMS.
- Anytype of communication with other students or remotely will be considered cheating.

Problem Statement

- Based on the WebSecTest project, incorporating both users and products, we aim to develop an online product store.
- Customers can use their account credit to purchase products.
- The credit amount should be displayed on the customer's profile page.
- Upon registration, a user is automatically assigned the "Customer" role.
- Customers must be logged in, have sufficient account credit, and the product must be in stock to complete a purchase.
- Customers can list all purchased products.
- Employees cannot register themselves; only an administrator can create employee accounts.
- Employees can add, edit, and delete products. Edit products include the available items in store.
- Employees can list all customers associated with their account.
- Employees can add credit to customer accounts.
- Ensure all taken security measures are implemented to prevent security vulnerabilities.

Delivery and Discussion

- Modify the models, controllers, routes, and Blade files of the WebSecTest project. Do not replace them entirely.
- Use GitHub Desktop to commit and push your changes to a branch named 'Midterm25'.
- Upload a compressed file containing the 'app', 'resources', 'public', and 'routes' folders, along with 'db.sql', to the Midterm Exam submission area in the LMS.
- Locate your discussion schedule within the LMS.
- During the discussion, present the code execution from the 'Midterm25' branch. Ensure any changes made after the exam are discarded.

Important: Assume any missing information. If you think that the exam time is not enough, do your best to finish as many features as you can.



Delivery Information

Github Repository URL	
Delivery Time	
Student Signature	

Delivery Checklist

Item	Yes	No	Error
Make "Admin", "Customer", "Employee" roles			
Make all required fields and tables in the database.			
After registration "Customer" is assigned.			
Admin can add Employees internally.			
Customers can click the Buy button beside each product.			
Show page with insufficient credit if credit amount is not enough.			
Product is added to bought products list if credit is enough			
The Employee can charge Customers credit with positive values only			
The Employee can list all users with the 'Customer' role only.			
The Employee is able to Add/Edit/Delete products.			
The Employee can set the number of available products items in store.			
The amount of items is reduced by one after successful purchase.			
I made all permission checks on UI and Backend			

