



# Maharishi International University

1000 NORTH, 4<sup>TH</sup> STREET, FAIRFIELD IA 52557

# Software Engineering

## cs425-SWE

### eShopping Presentation

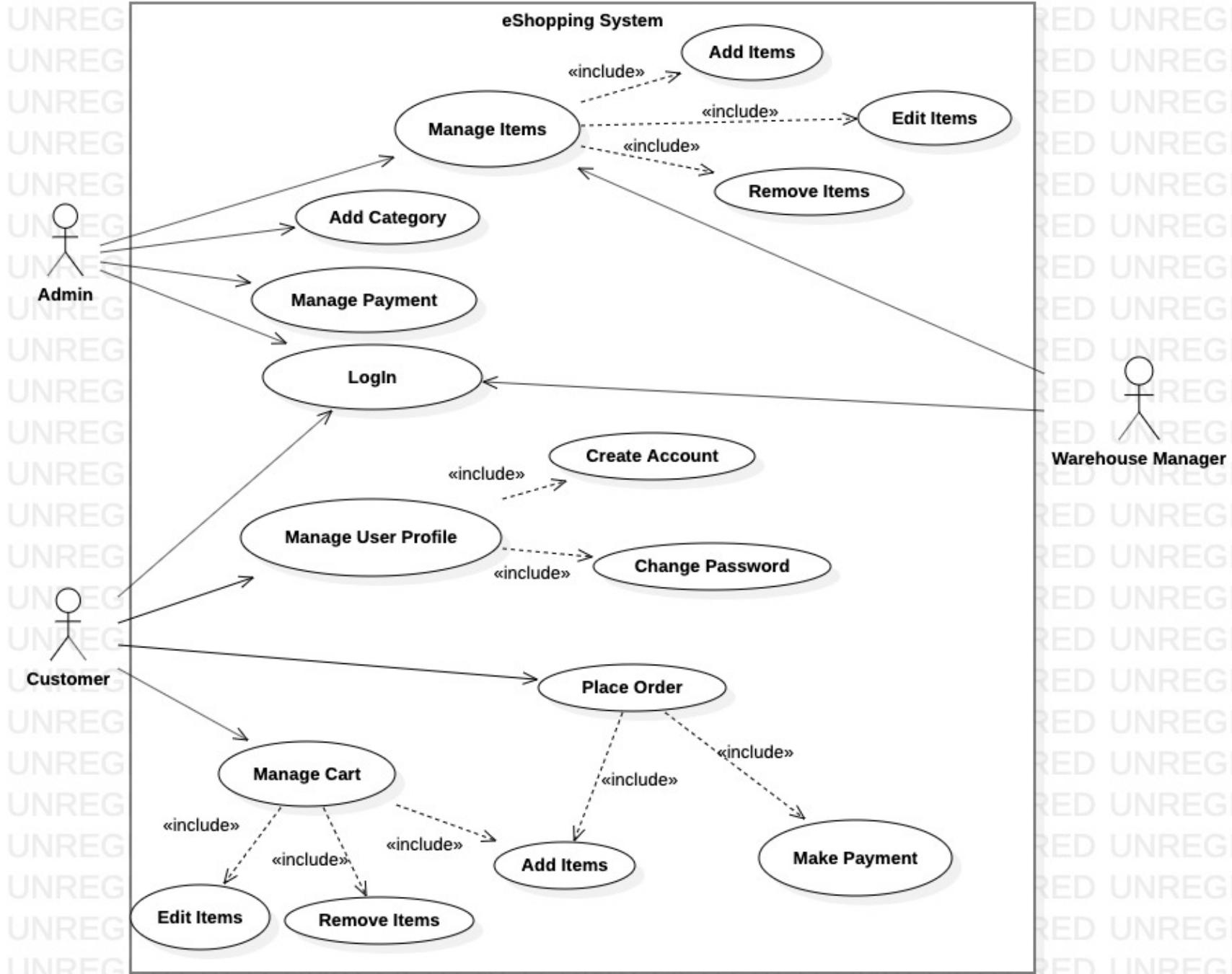
Prepared by:

- Darphe HYPPOLITE JEAN
- Gebre GEBREEGZIYABHER
- Yared BEYENE

March 2020

Professor: Obinna Kalu

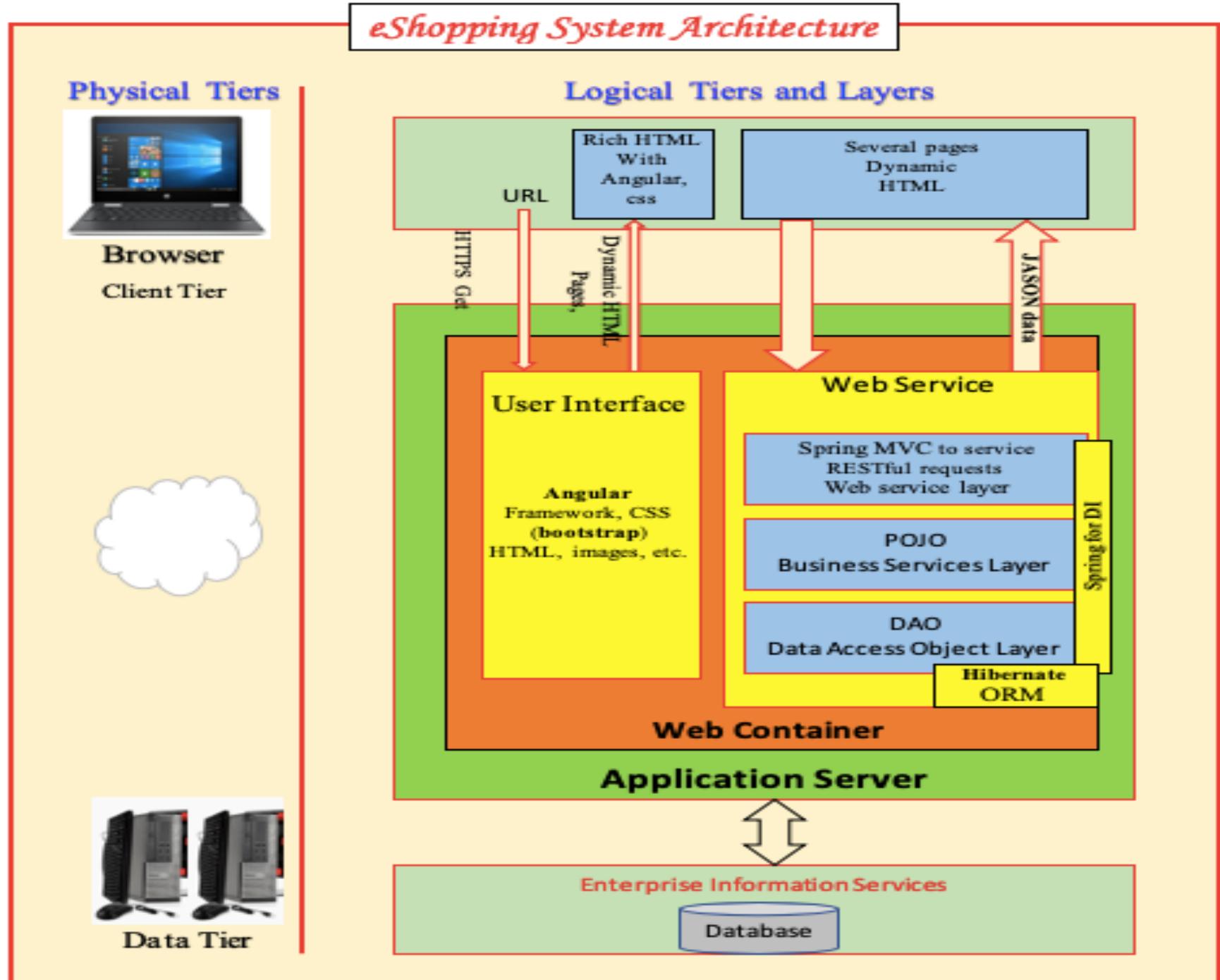
# 1- Use case Model



## 2- Use case Description

Name	: Place Order
<b>Brief description :</b> This use case allows a customer to place an order online.	
Actor.	: Customer
Precondition	: Customer must log in and shopping Cart must be empty.
<b>Flow of events</b>	
<b>Basic Flows</b>	
User Actions	System Responses
1. Customer calls the command Place order by clicking on the button Place Order in the window.  2. Customer enter his/her credit/debit card number and click on the Proceed button.	1. The system verifies customer's shopping cart items and asks the user to enter a valid credit/debit card number in a new window.  2. System verifies the validity of the customer's card, the availability of the required amount for the current order and then proceed with the operation.
<b>Postcondition</b>	: A new order has been recorded and persisted in the eShopping Database
<b>Business Rules</b>	: a) Customer's credit/debit card number must be valid b) Customer's credit/debit card must have enough money.

# 3-System Architecture

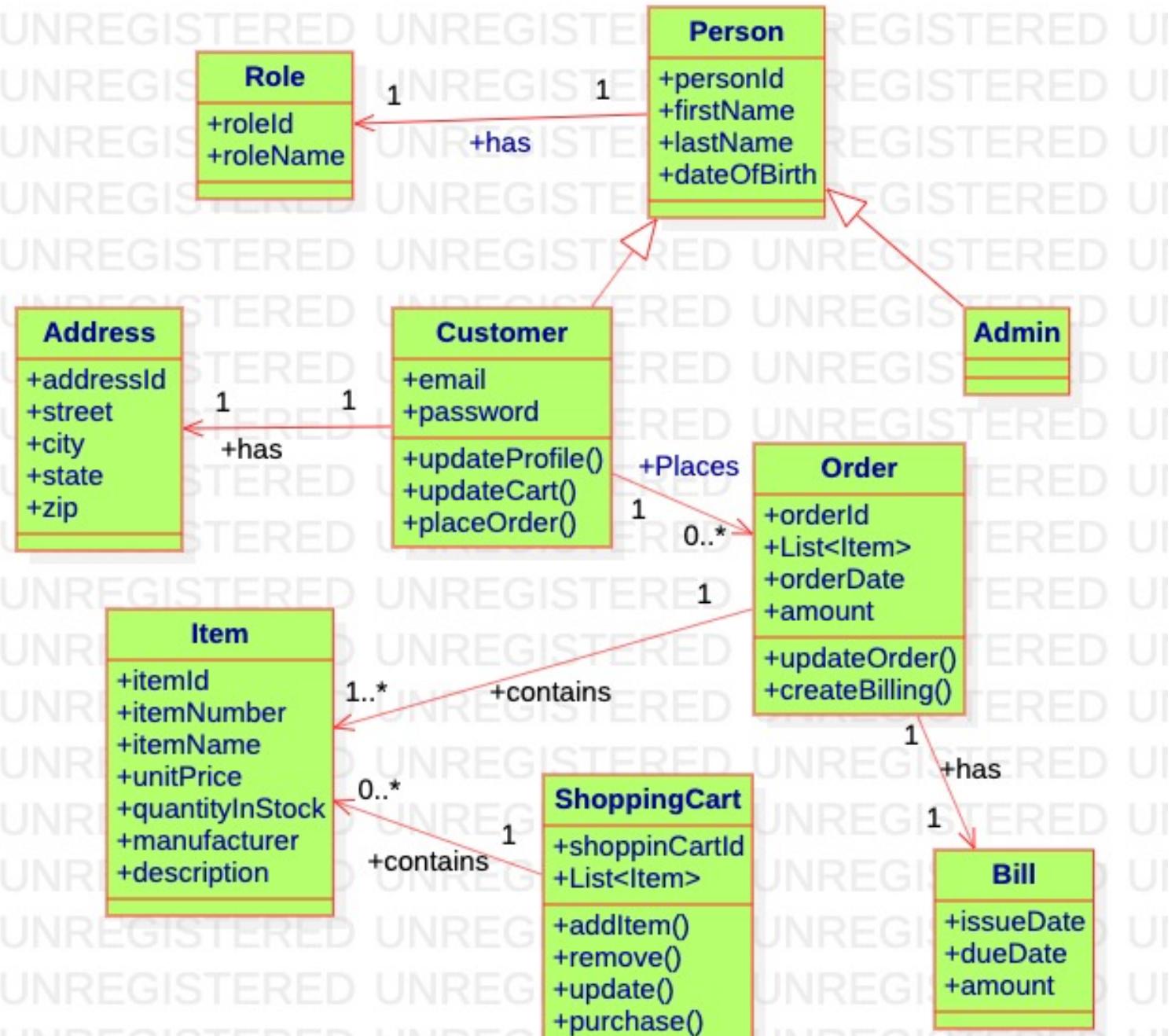




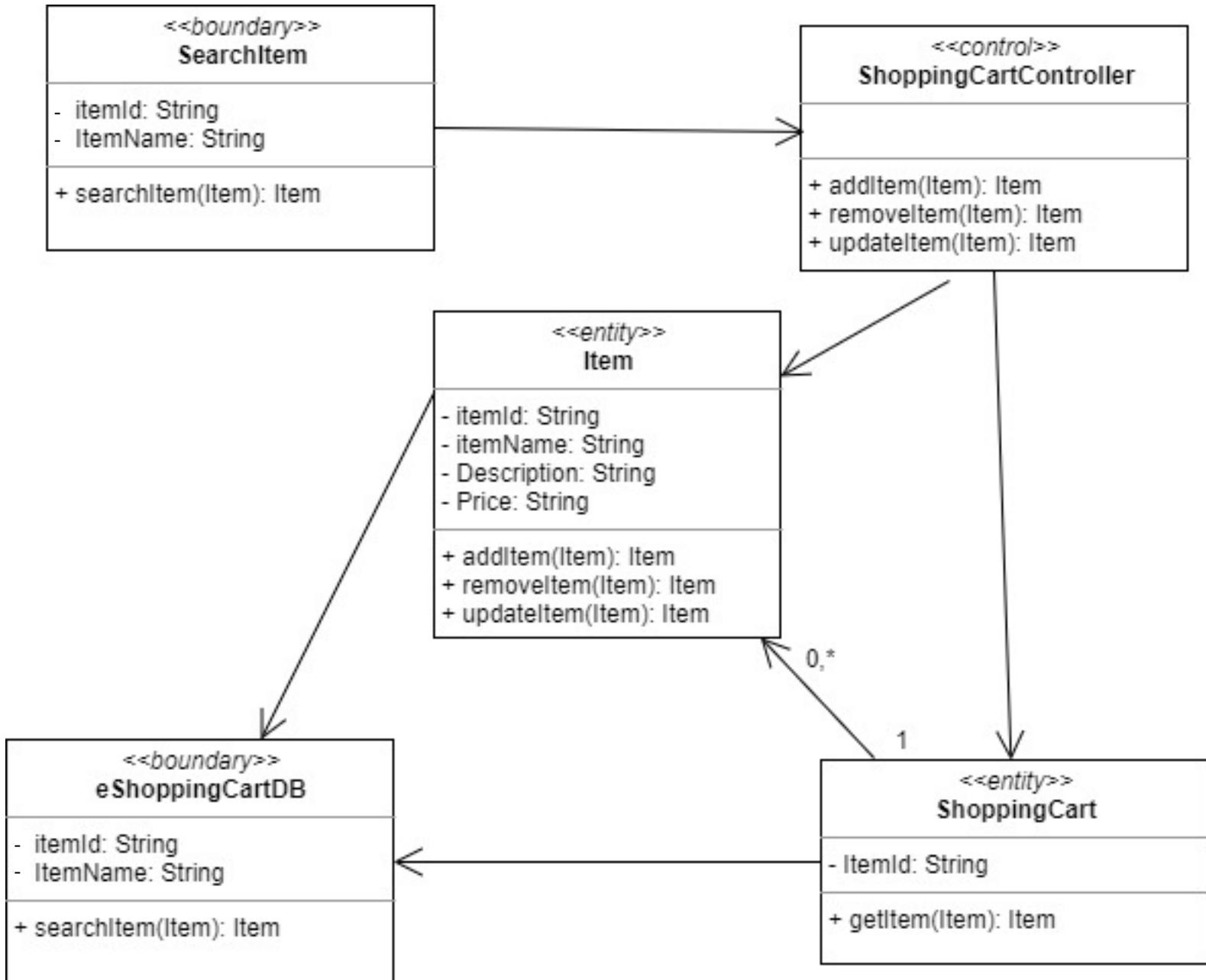
**4-Key  
Abstractions**

- 1- Customer**
- 2- Item**
- 3- User**
- 4- Address**
- 5- ShoppingCart**
- 6- Bill**
- 7- EShoppingDB**
- 8- Debit Card / Credit Card**

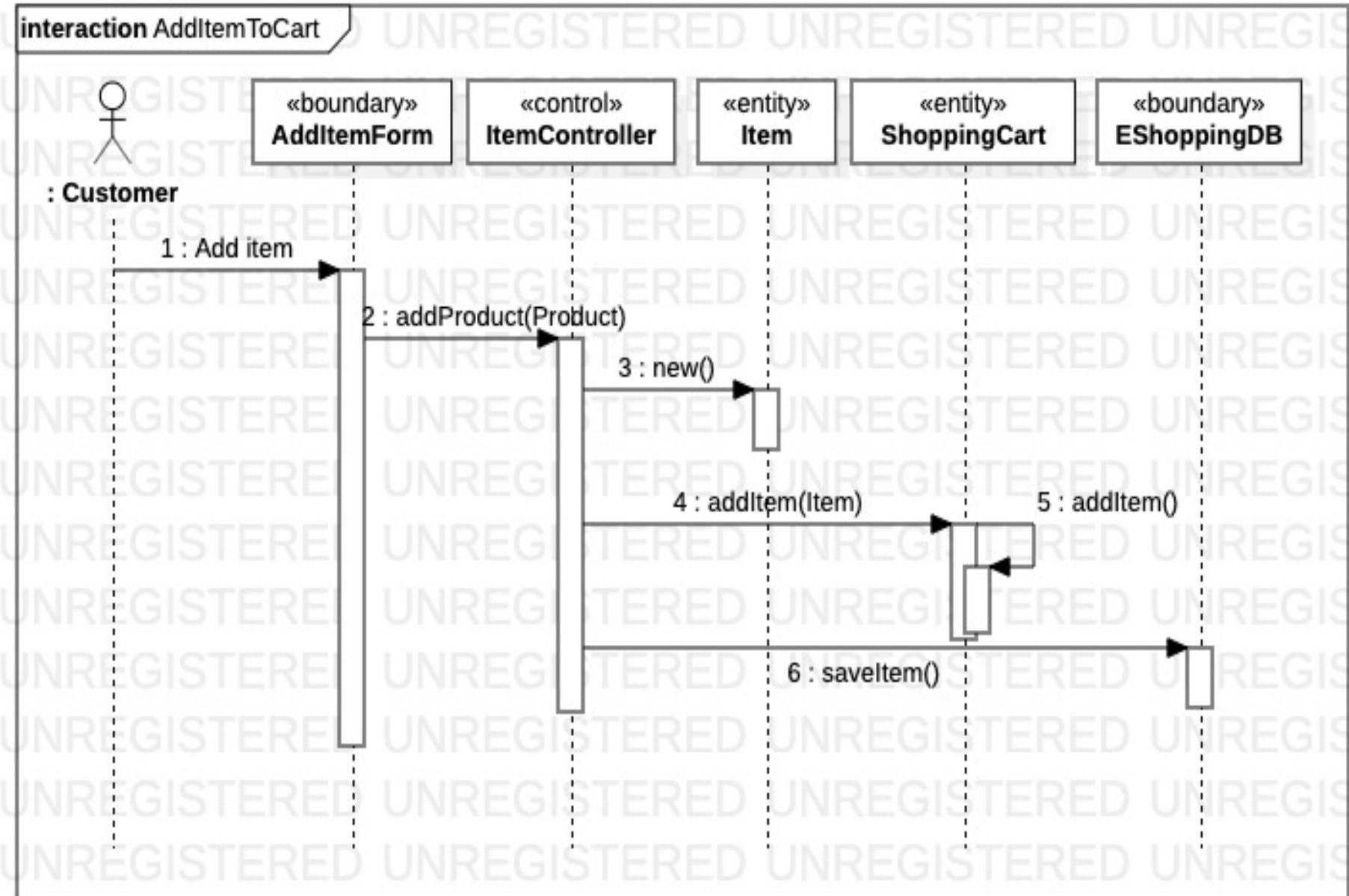
## 5-Final Class Diagram



## 5- VOPC Diagram

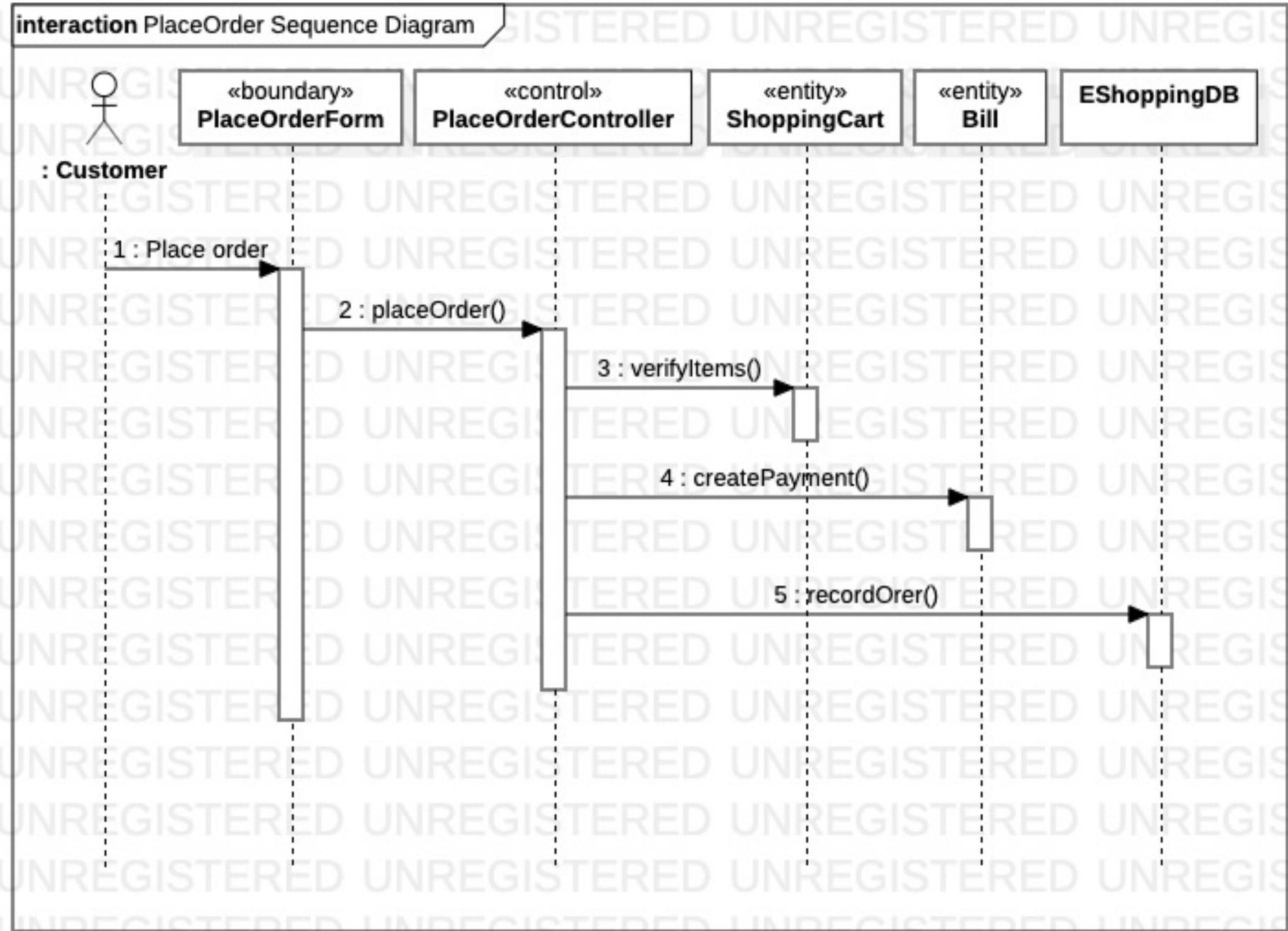


## 6- Sequence Diagrams



Continued

## 6- Sequence Diagrams



## 7- Glossary

Concept	Meaning
eShopping	Online Web Application that allows a customer to view available products online and/or place orders.
Customer	Any user of the system who has an account and is able to view available products on the system and place orders.
Order	The fact that a customer buys an online product via the eShopping.
Shopping Cart	Kind of a container assigned to every customer in order to add all the items that he/she wants to buy before placing the order.
User	Anyone who has an account to the eShopping application.
Credentials	a username and password authentication token that is bound to a particular user.
Username	In this case, it is a user's email address.

*The End*

*Thank you!!!*