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# E-Shopper Project

## CS-425 Software Engineering Team 6:

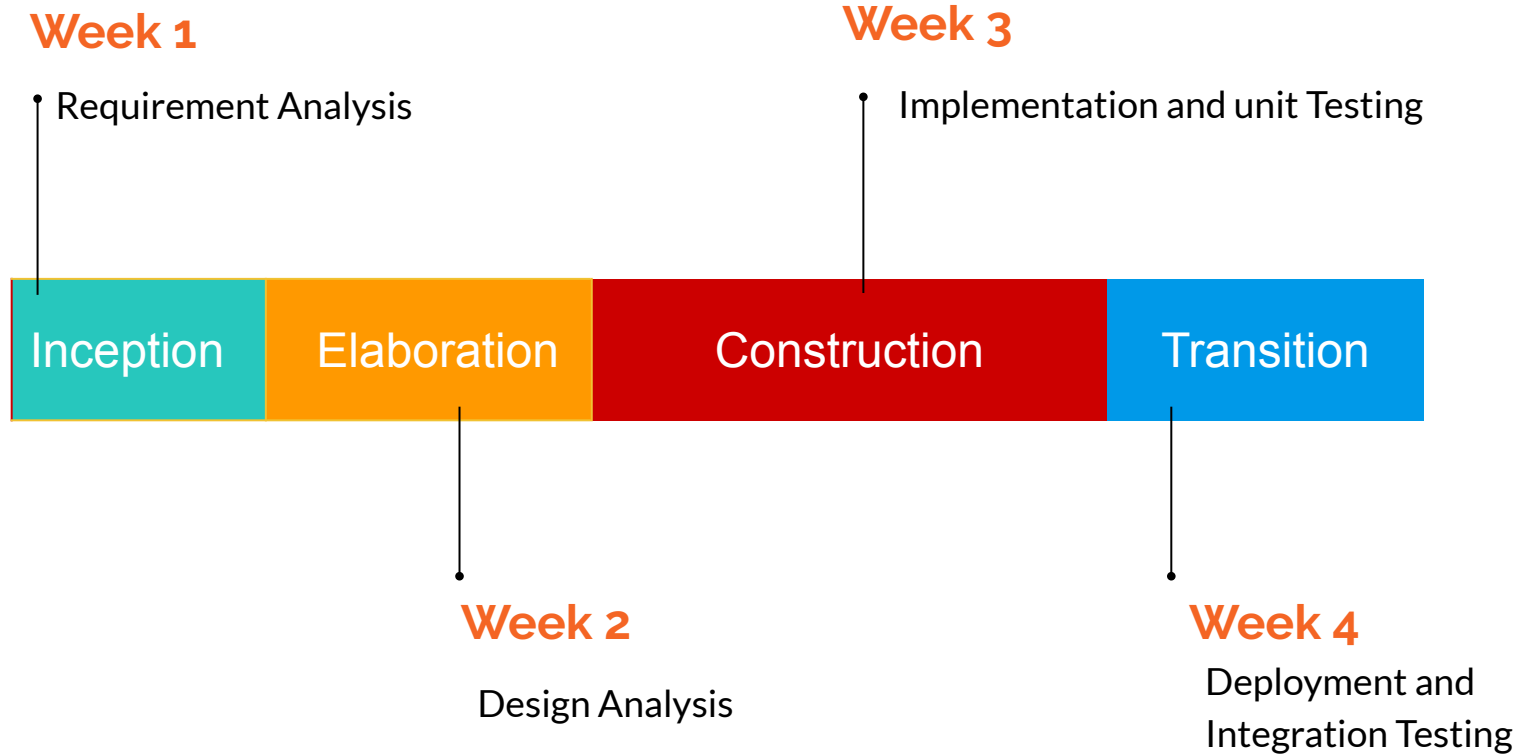
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# Outline

- Timeline
- Software Development Process Methodology
- Key Abstraction
- System Architecture Diagram
- Use Case Diagram
- Use Case Description
- Sequence Diagram
- Collaboration and VOPC

# Timeline



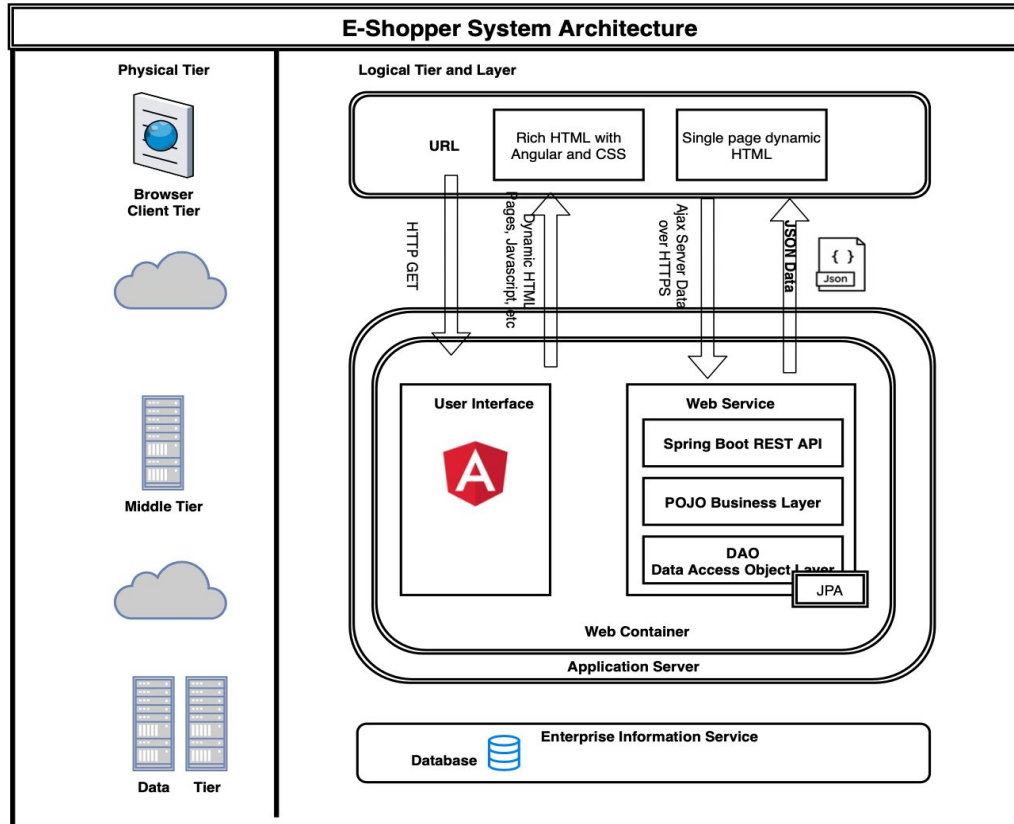
# Software Development Process :Agile

Using Trello

Daily update

Iterative Process

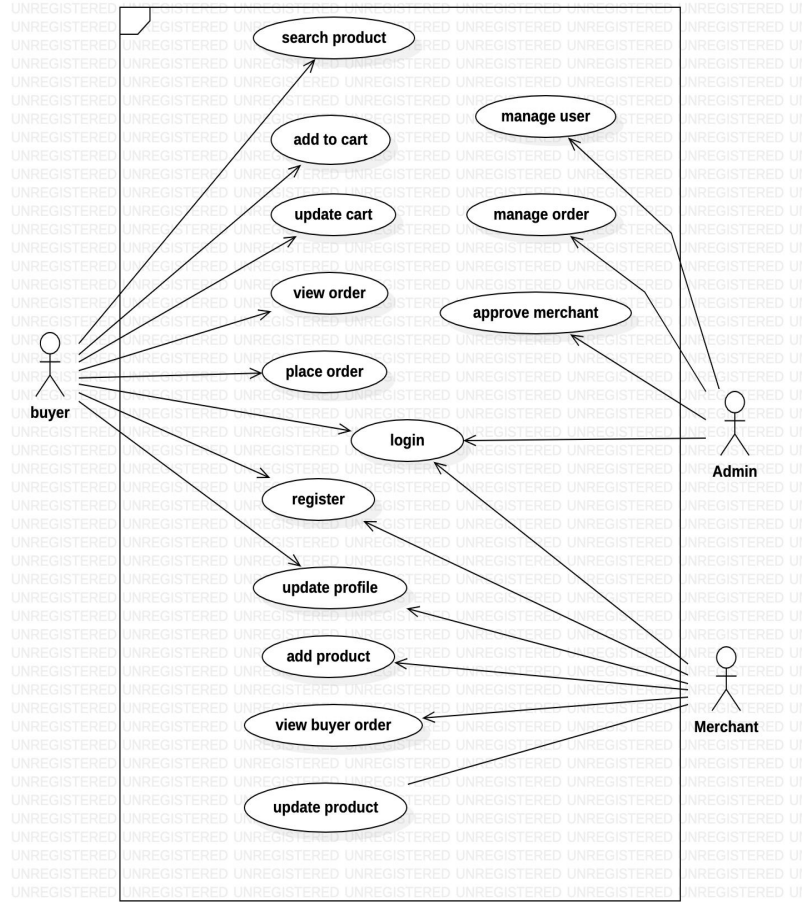
# System Architecture Diagram



## Technologies

- Angular
- Mysql
- Spring Boot
- Spring Security
- Bootstrap
- Thymeleaf

# Use Case Diagram



# Use Case Description

Use Case Number: 8		
<b>Name</b>	Place Order	
<b>Brief description</b>	This use case provides a functionality for checkout after adding product to cart	
<b>Actors</b>	Buyer	
Preconditions		
Buyer must login to system		
Flows of Events:		
1. Basic Flows		
1.0 Place Order		
Step	User Actions	System Response
1	Buyer view product detail	1.1. System displaying product detail
2	Buyer input quantity and click “Add to Cart” button	2.1. System checking stock 2.2. System store to database
3	Buyer click “Checkout” button	3.1. System verify quantity before reducing stock 3.2. Check availability (Status) of the product 3.3. Reduce product quantity and update in database 3.4. System display success message, order successfully 3.5. System will be rendered to order detail
Postconditions		
Product stock will be reduced and render to order details.		
Business Rules		
Stock can't be minus		
Product Order Quantity should be validated		
Non available product can't be bought (products status)		

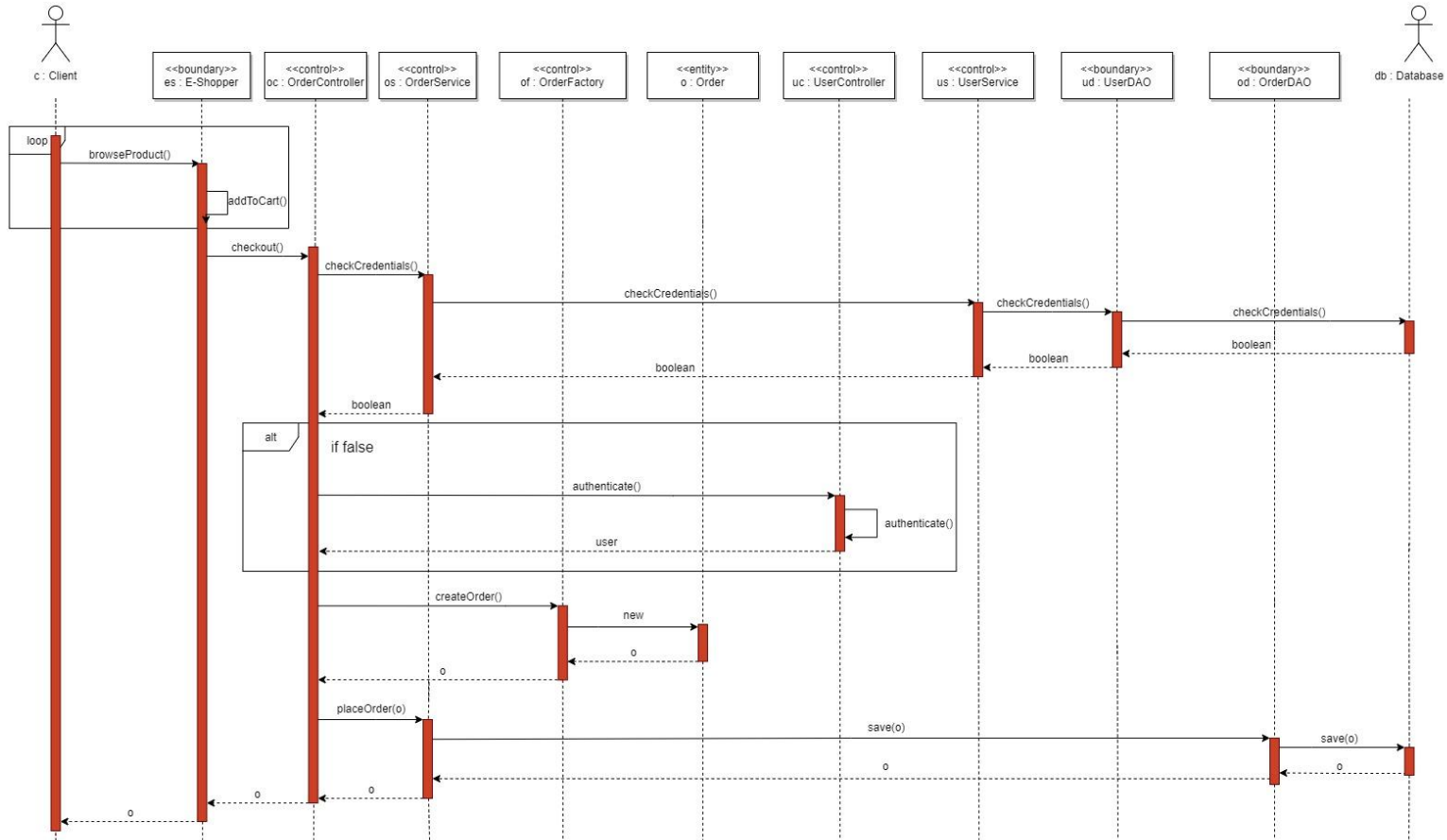


# Key Abstraction

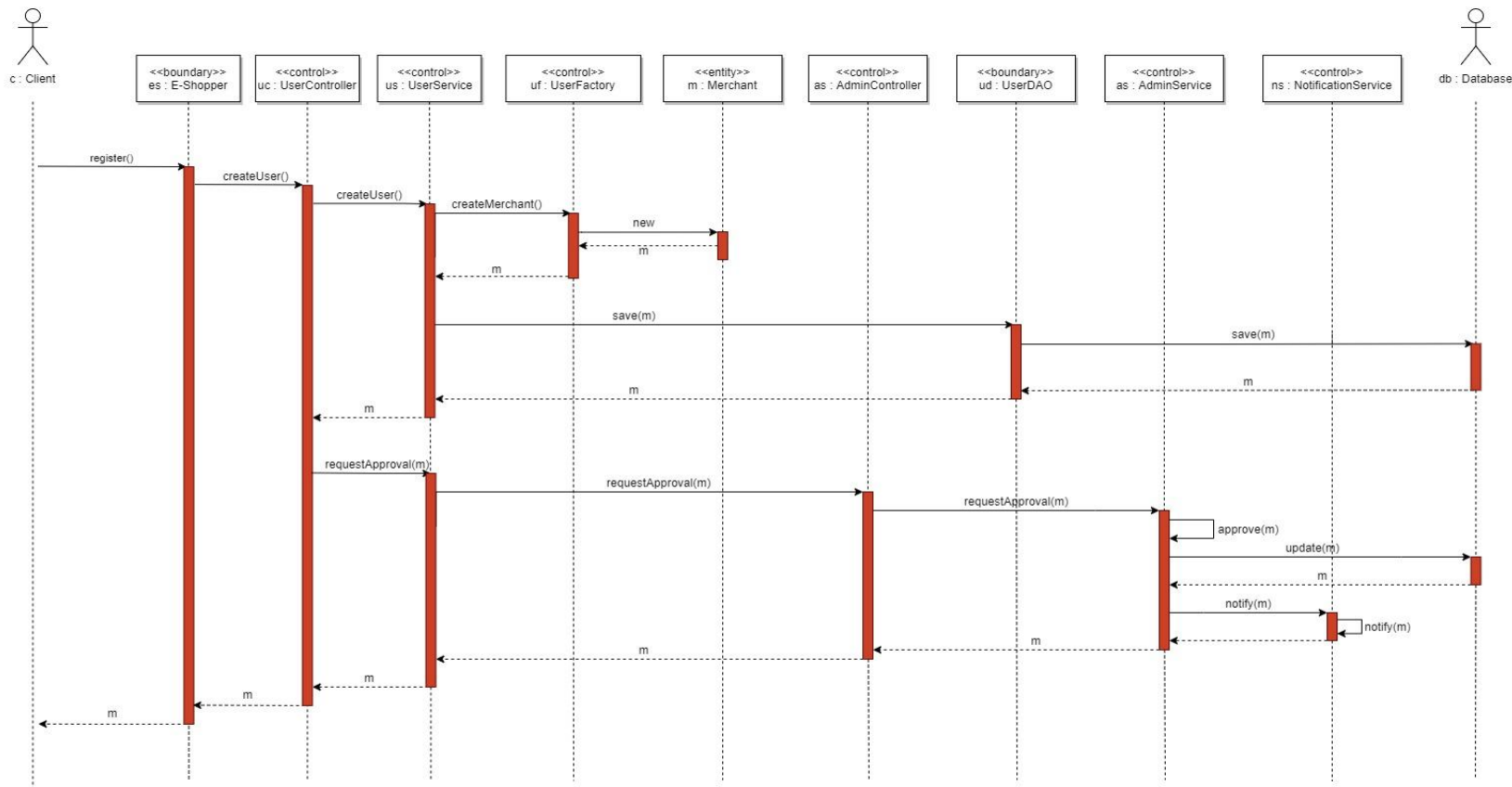
- Buyer
- Seller / Merchant
- Product
- Category
- Order
- Order Item



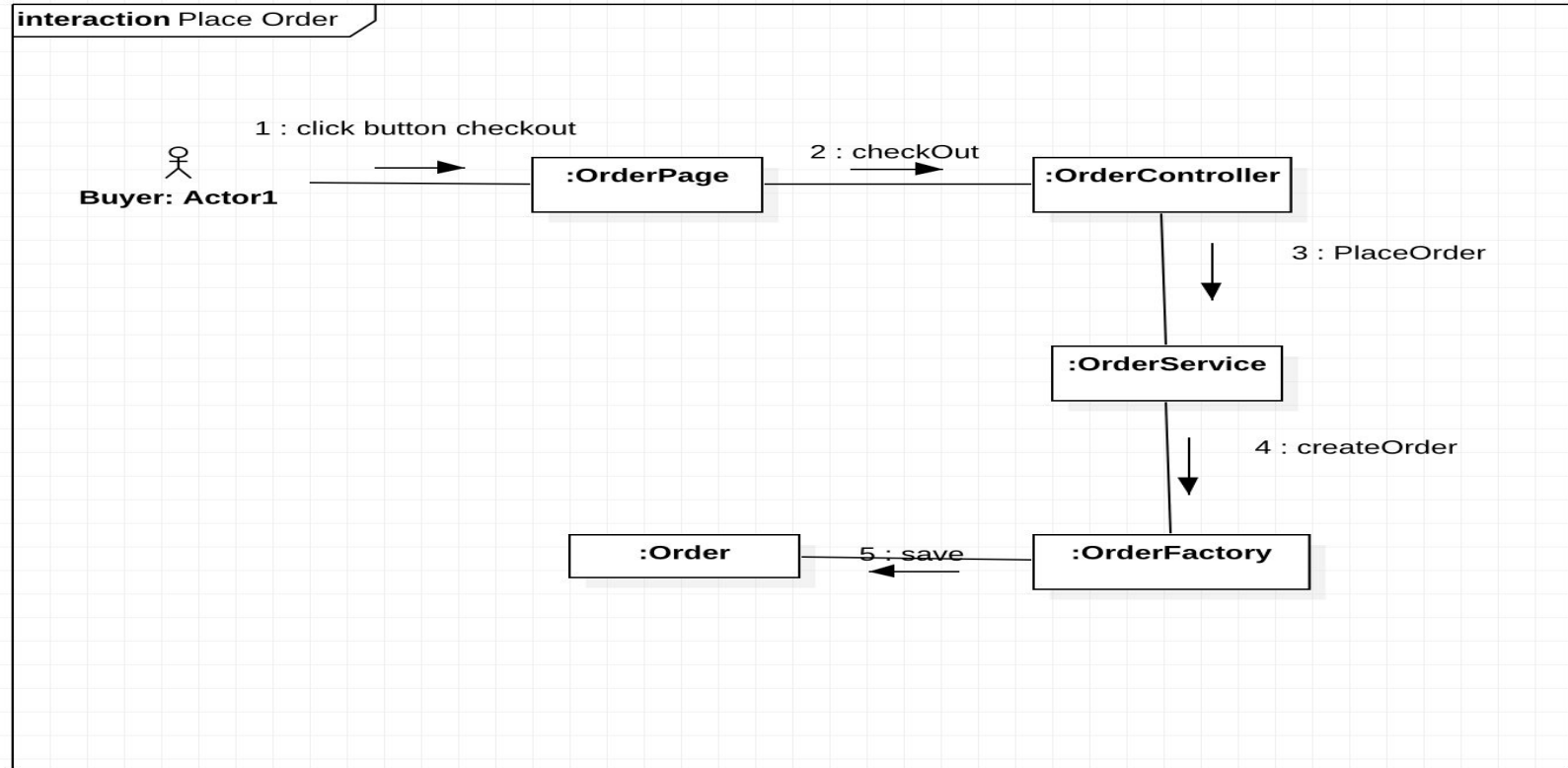
# Place Order Sequence



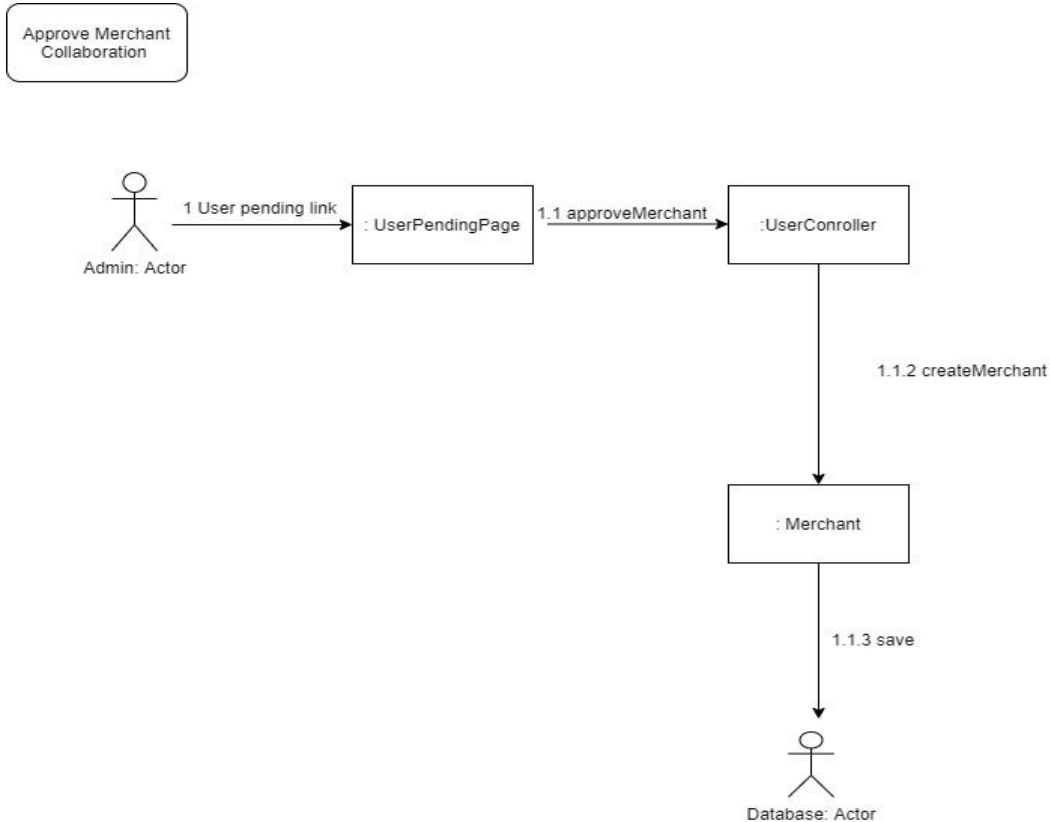
# Merchant Approval Sequence



# Collaboration Diagram Place Order

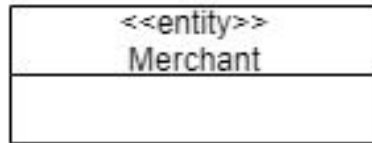
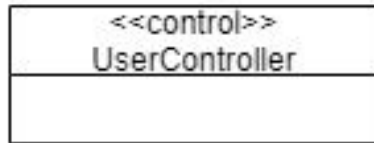
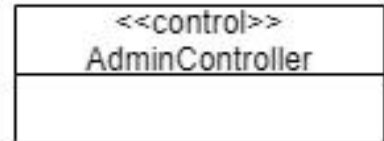
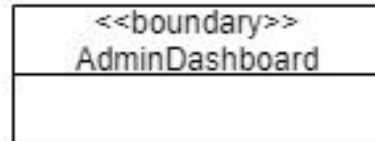
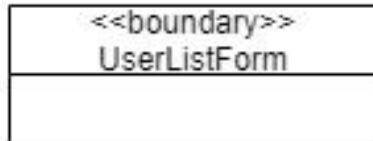


# Collaboration Merchant Approval



# VOPC Merchant Approval

VOPC Diagram  
Merchant Approval



# VOPC Place Order

interaction VOPC Place Order

Place Order VOPC

«boundary»  
**OrderPage**

«control»  
**OrderController**

«control»  
**OrderService**

«control»  
**OrderFactory**

«control»  
**OderDAO**

«entity»  
**Order**



**Thank You!**