
E-Shopper Project

CS-425 Software Engineering Team 4:

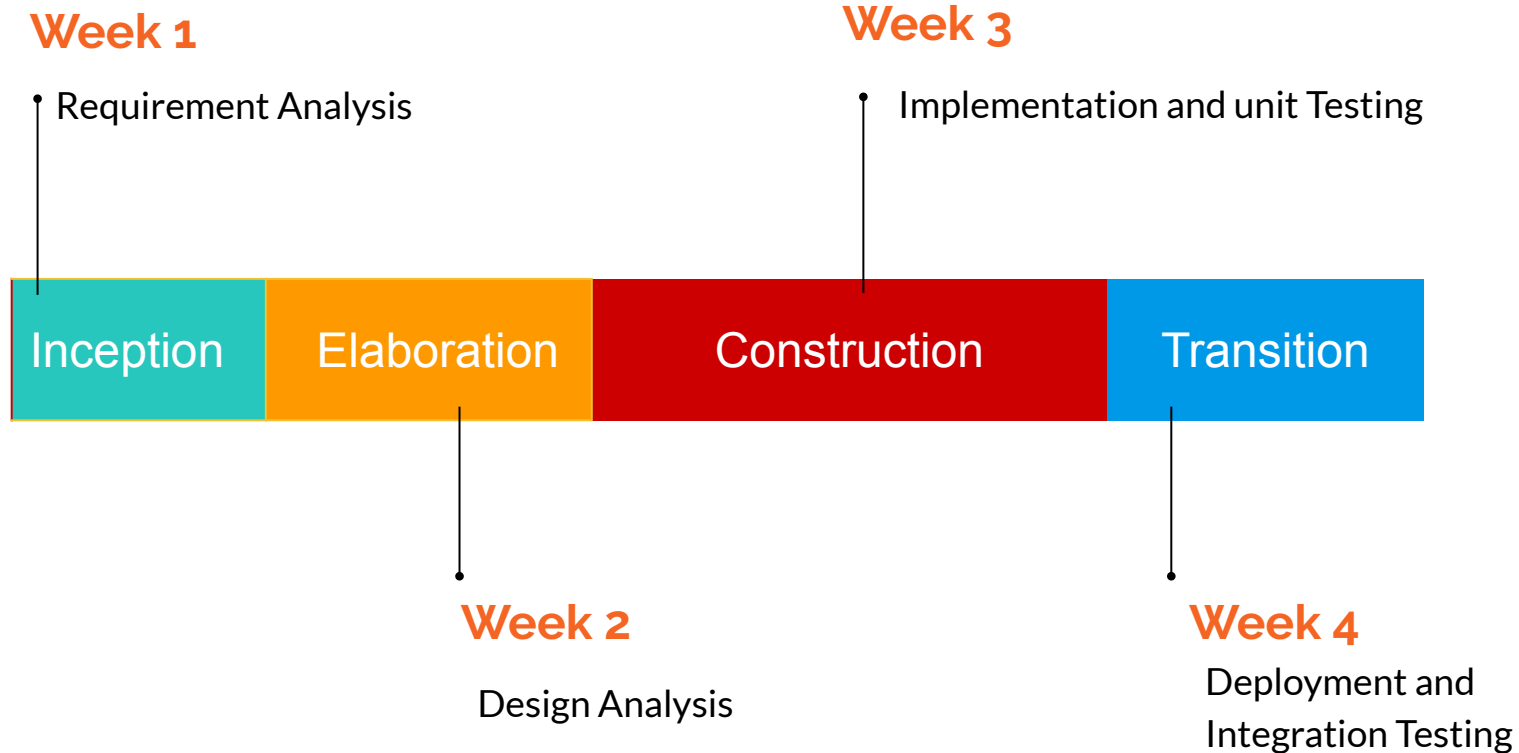
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Outline

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

Timeline



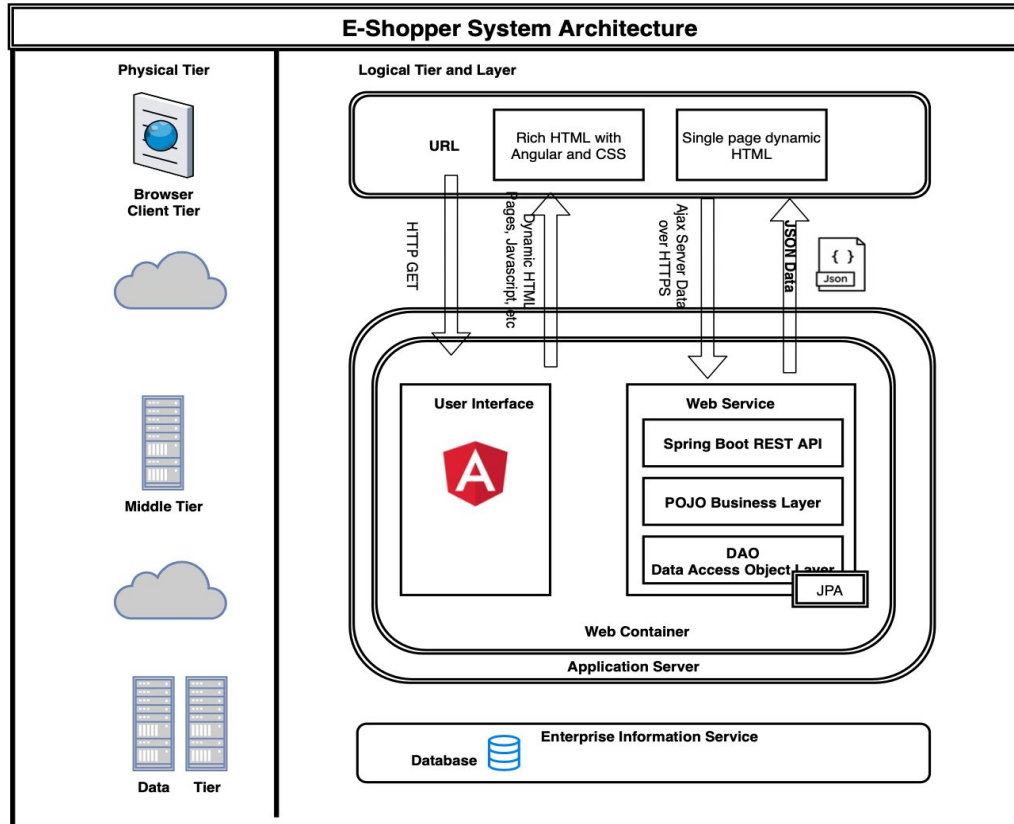
Software Development Process :Agile

Using Trello

Daily update

Iterative Process

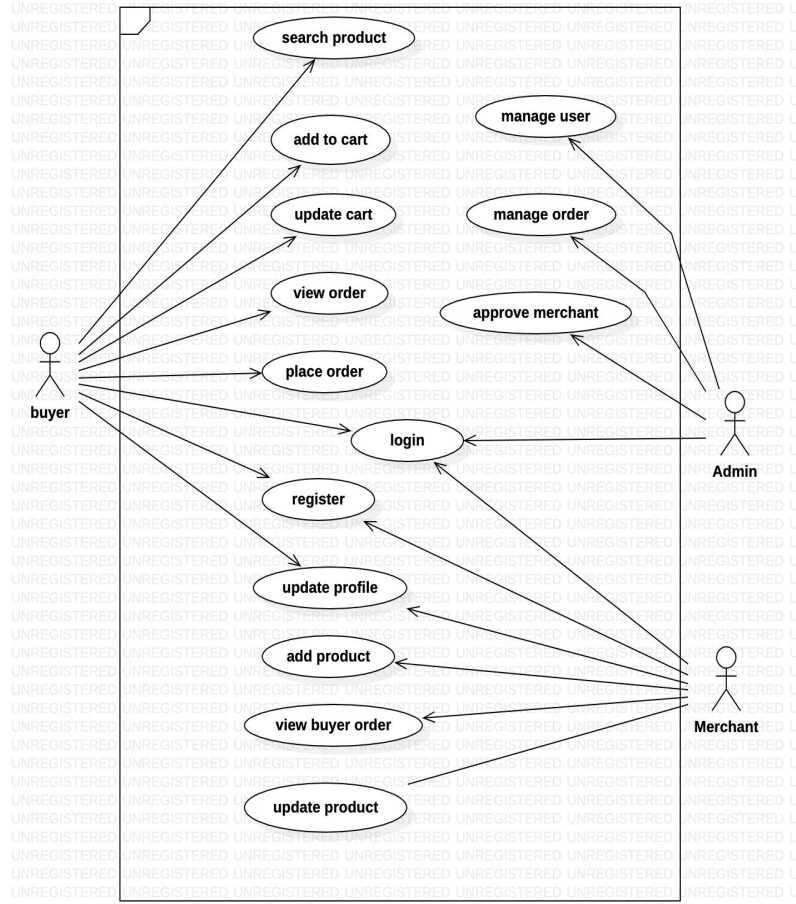
System Architecture Diagram



Technologies

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

Use Case Diagram



Use Case Description

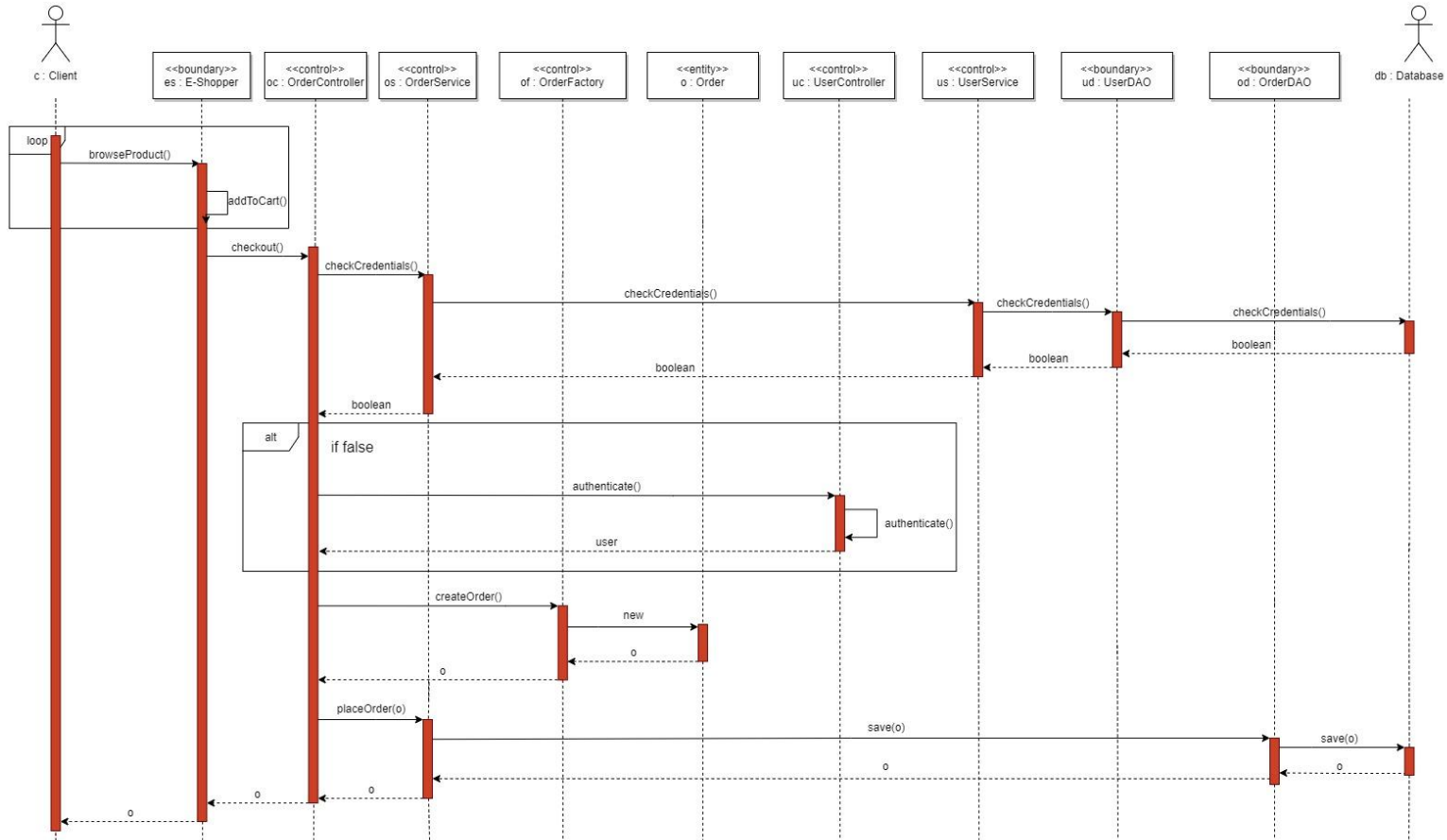
| | | |
|--|--|--|
| Use Case Number: 8 | | |
| Name | Place Order | |
| Brief description | This use case provides a functionality for checkout after adding product to cart | |
| Actors | Buyer | |
| Preconditions | | |
| Buyer must login to system | | |
| Flows of Events: | | |
| 1. Basic Flows | | |
| 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) | | |



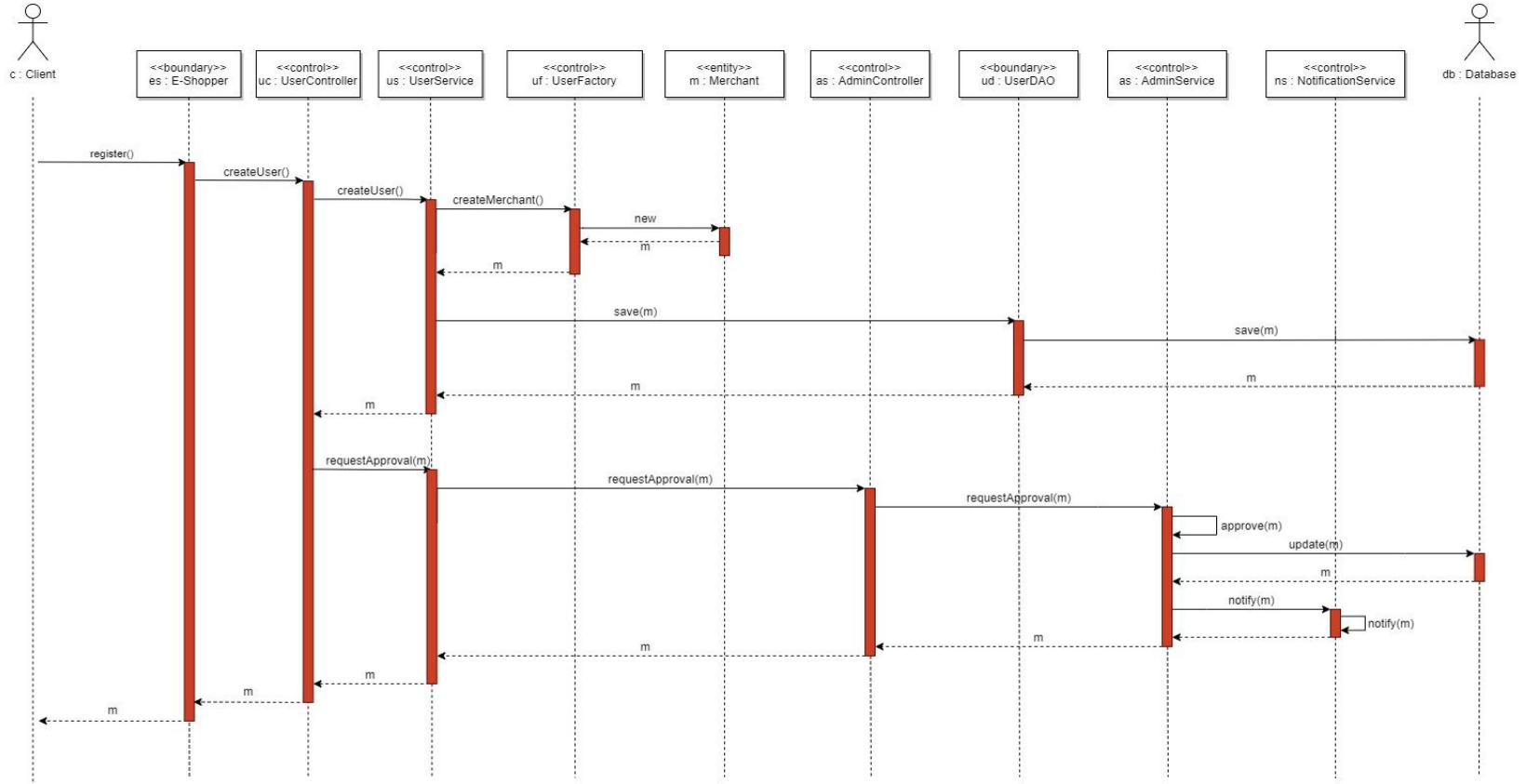
Key Abstraction

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

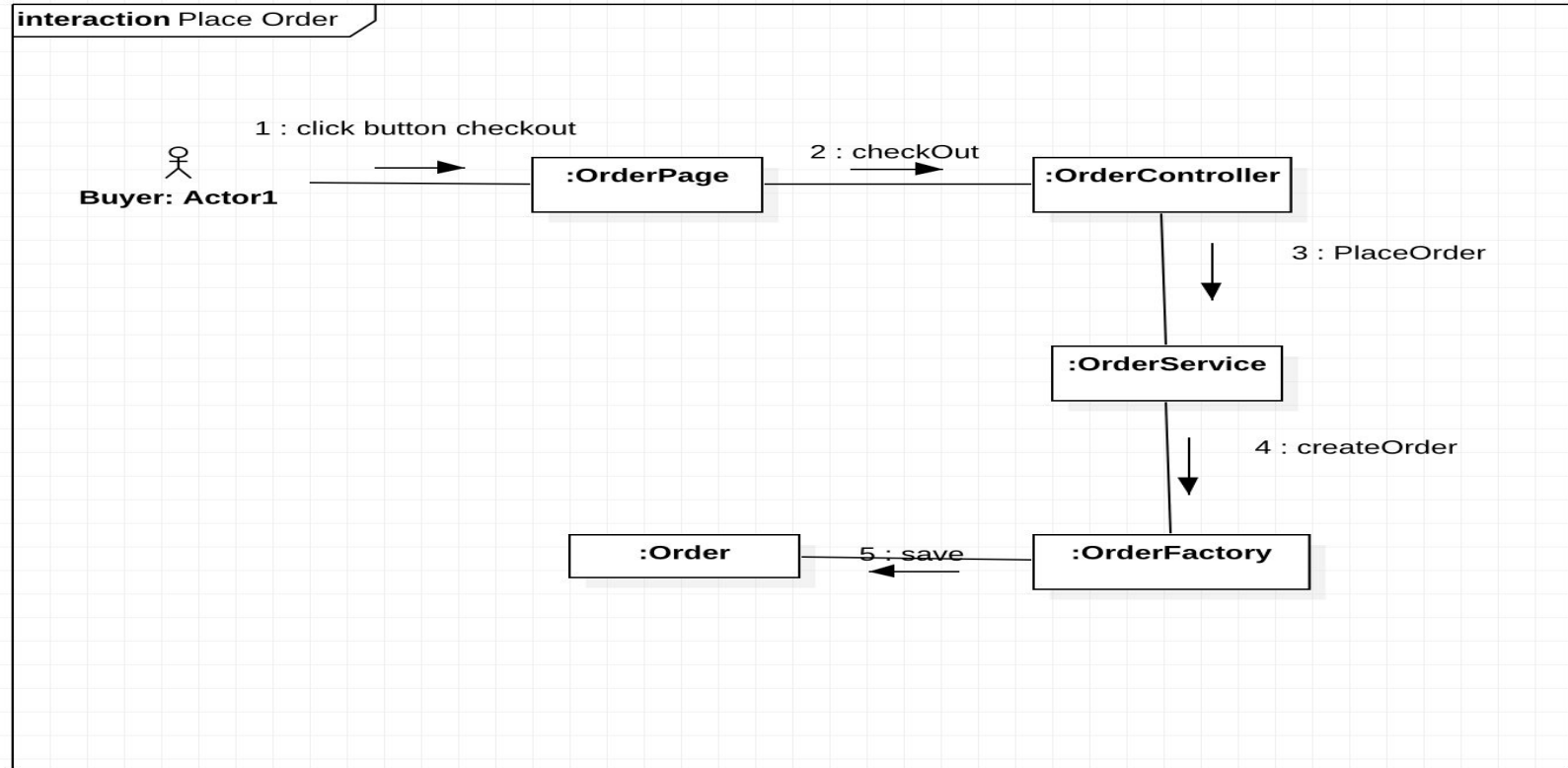
Place Order Sequence



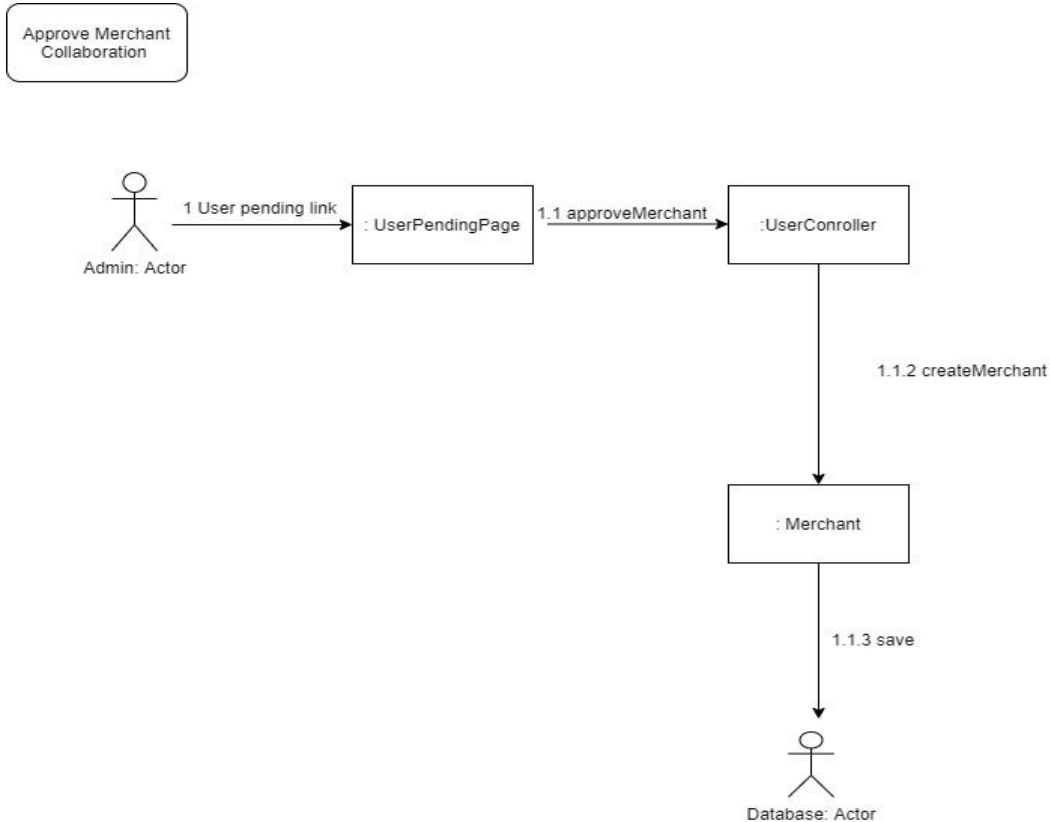
Merchant Approval Sequence



Collaboration Diagram Place Order

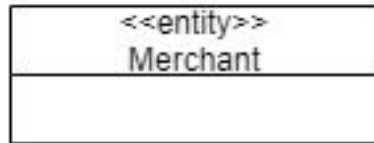
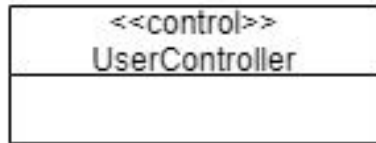
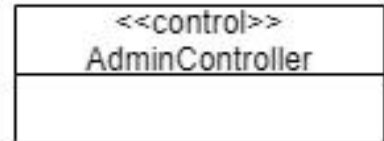
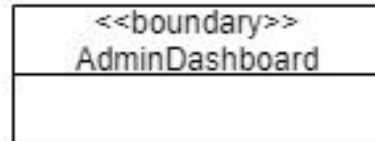
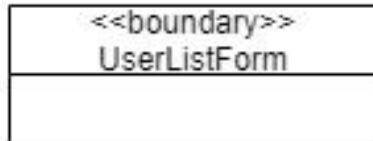


Collaboration Merchant Approval



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!