



Buy And Sell (E-commerce System)

Assignment Details

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Project Workload:-

Create Web Service for placing customer orders, including deleting and updating. Test web service using a test client.

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Declaration

I certify that this report does not incorporate without acknowledgement, any material previously submitted for a degree or diploma in any university, and to the best of my knowledge and belief it does not contain any material previously published or written by another person, except where due reference is made in text.

Registration Number : IT17048088

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Work Load

Designing and developing a shopping cart sub system including add to cart , edit to order details and delete orders(CRUD functions) by viewing order list .

Description

SellNBye is an e-commerce system, which provides a platform for the registered sellers to sell their products and registered buyers to order and purchase them. The developers has decided to implement the system based on micro-services architecture, using RESTful communication and using pattern like MVC

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API

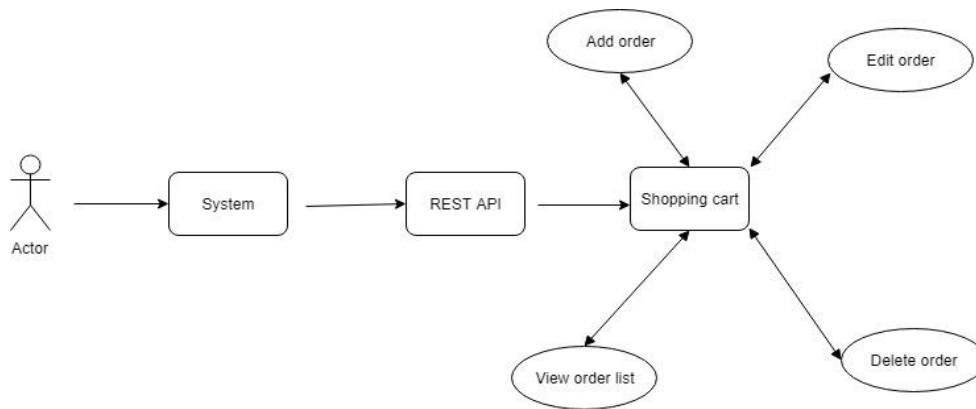


Figure 1:API

Class Diagram

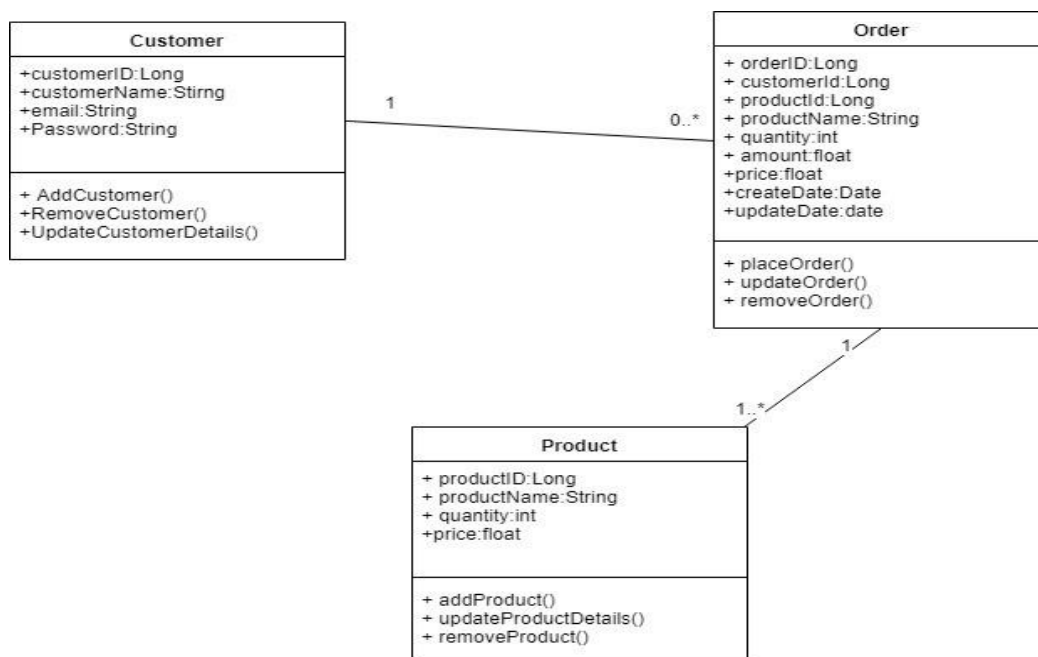


Figure 2:Class diagram

Classes, attributes, operations, and relationships between objects related to the shopping cart management system is modelled here.

Activity diagram

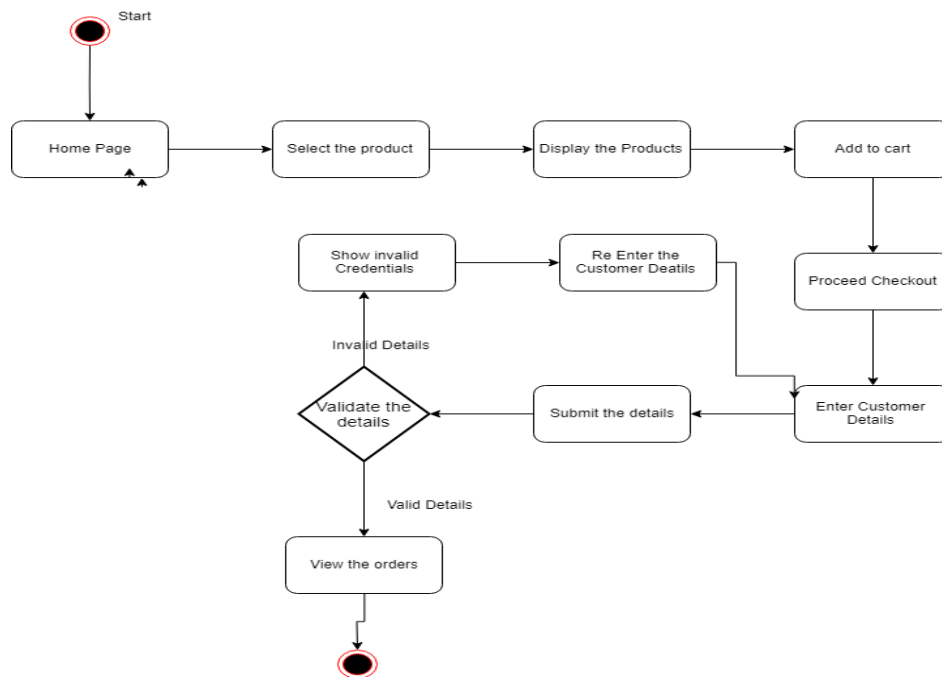


Figure 3:Activity diagram

Flow chart

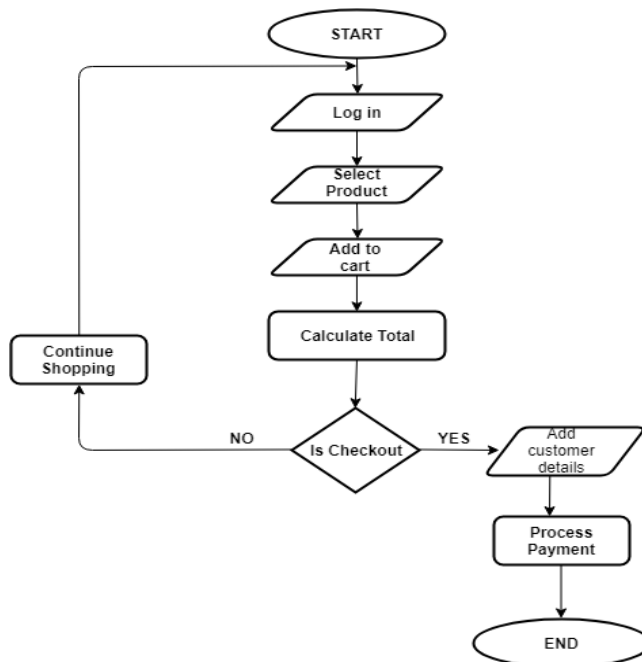


Figure 4:Flow chart

ER diagram

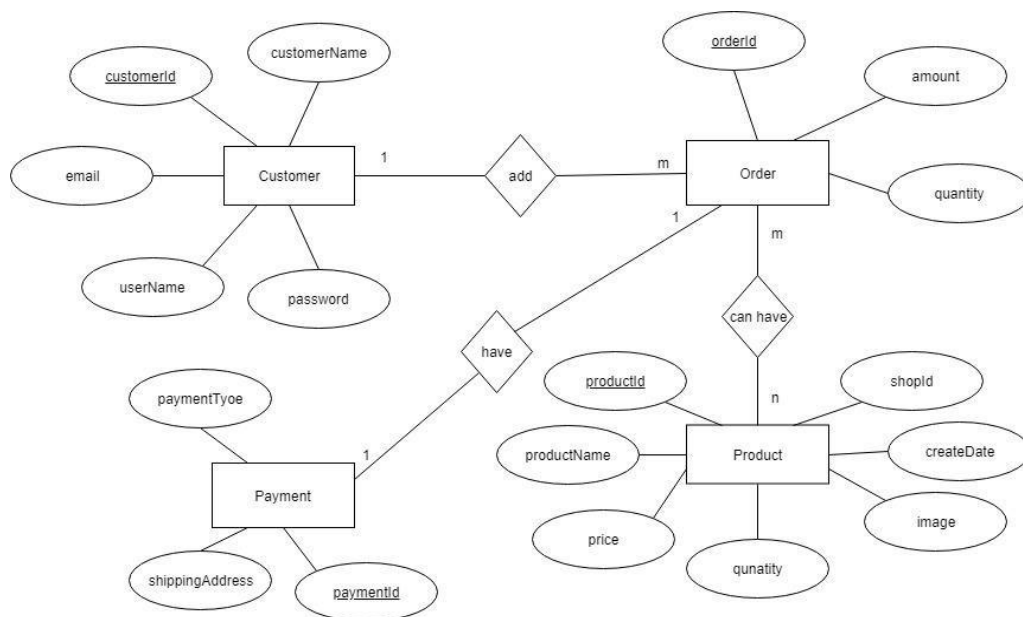


Figure 5:ER diagram

Development and Testing

For the development of this project (including this service) several technologies have been used. To build the service,

- **Maven**
- **Spring Boot**
- **Hibernate**
- **Java Persistence Api(JPA)**

Database,

- **MySQL Workbench**
-

Project is done using **Spring Tool Suite**

Testing Methodology & Results

manual testing

The key concept of manual testing is to ensure that the application is error free and it is working in conformance to the specified functional requirements.

Test Suites or cases, are designed during the testing phase and should have 100% test coverage.

It also makes sure that reported defects are fixed by developers and re-testing has been performed by testers on the fixed defects.

Basically, this testing checks the quality of the system and delivers bug-free product to the customer.

Test ID Test	Description	Test Input	Expected Output	Actual Output	Result (Pass/Fail)
01	Add to cart	Oder id Oder name quantity	Adding products to the cart	Adding products to the cart	Pass
02	Update order details	update Oder name Oder quantity	Shopping cart details are updated according to relevant inputs	Shopping cart details are updated according to relevant inputs	Pass
03	Delete a order from order list	Delete order id	Item deleted And show a message successfully deleted	Item deleted And show a message successfully deleted	Pass

References

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