IT3010
Network Design & Management
3rd Year, 1st Semester

<Individual Project Report >

E-Commerce system

Batch: WE(IT)_Y3S1_7.1

Group Name: N3B-G10

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Bachelor of Science Special Honors Degree in Information Technology

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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.

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Work Load

Designing and developing an Admin Notice Management Sub System including adding notice to the system, delete notice and update notice by viewing notice list and selecting notice.

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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01. **API**

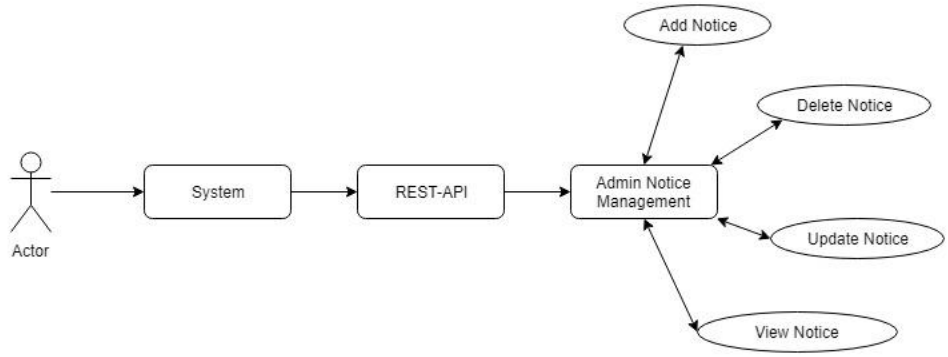

Figure 1: API

The API chart which was intended to this e-commerce system framework depicts how the web service is presented to users via a RESTful API.

02. Class Diagram

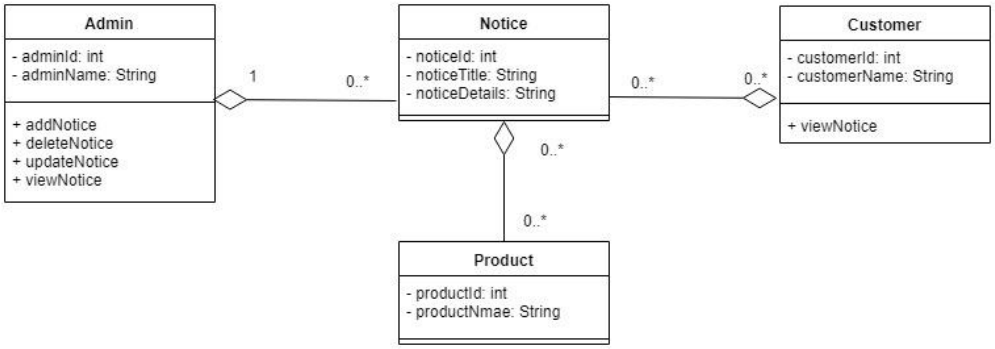

Figure 2: Class diagram

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

03. **Activity diagram**

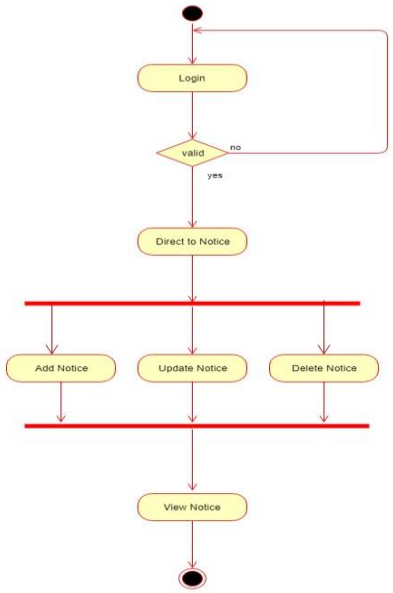

Figure 3: Activity diagram

This shows the dynamic behavior of the flow from one activity to another

04. **Flow chart**

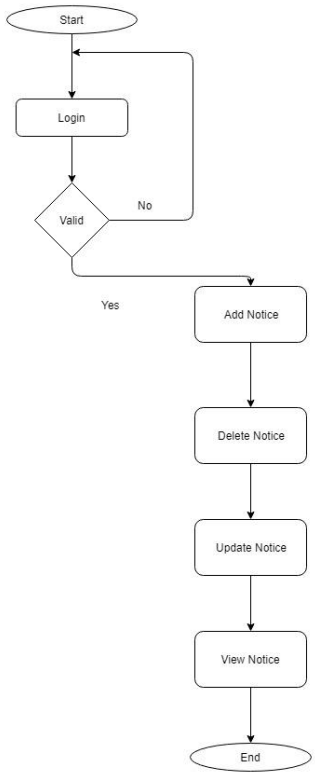

Figure 4: Flow chart

This chart shows how the system procedure flows from starting login to system and end viewing the notice.

05. ER diagram

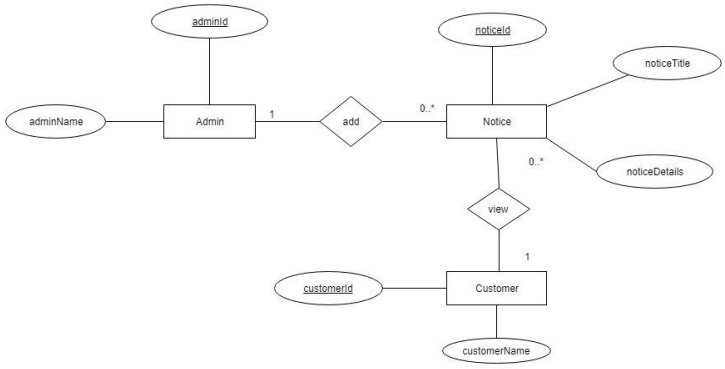

Figure 5: ER diagram

This diagram shows Entities and attributes related to database.

06) Development and Testing

	Tool used	**Justification for selection**
Back end	Java, Spring Boot	Easy to code & configuration
Database	phpMyAdmin	Easy to connect
Server	Tomcat	Easy configuration
IDE	Sprint tool suit	Easy to create & develop projects
Build Tool	Maven	Knowledge from PAF lab sessions

07. 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 notice to system	noticeId noticeTitle noticeDetails	Adding notice to the system	Adding notice to the system	Pass
02	Update notice details	noticeTitle noticeDetails	Notice details are updated according to relevant inputs	Notice details are updated according to relevant inputs	Pass
03	Delete a notice from notice list	Delete noticeId	Notice deleted And show a message successfully deleted	Notice deleted And show a message successfully deleted	Pass

08. References

https://stackoverflow.com/

https://www.draw.io/

https://www.youtube.com/

https://en.wikipedia.org/wiki/Spring_Frameworkhttps://www.javaguides.net/2018/09/spring-boot-2-hibernate-5-mysql-crud-rest-api-tutorial.html