HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

GRADUATION THESIS

E-commerce platform: A module for suppliers

DUONG THI HUE
hue.dt176772@sis.hust.edu.vn

Major: Information Technology

Supervisor: MSc. Nguyen Hong Phuong _____

Signature

Department: Computer Science

School: Information and Communications Technology

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ABSTRACT

In the 4.0 revolution, the considerable development of technology makes so many utilities for humans in every aspect, specifically in shopping demand. However, because of the distance and time, nowadays, people take more time online shopping, the online e-commerce appears. Especially in covid 19 disease, online shopping has emerged as a "lifesaver," helping consumers secure their lives and jobs and helping manufacturers and distributors of goods develop production and business. Currently, Vietnam has nearly 45 million people participating in online shopping. Online shopping is convenient and saves time. Consumers can freely choose the necessary items and necessities for daily life and work without spending too much time everywhere that has the internet.

However, online shopping also has many problems. The seller delivers poor quality, counterfeit goods. Many sellers only post pictures and prices, but the buyers wait forever without delivery, even the buyers finish trading. The risk of personal information being exposed when online shopping.

There are some solutions for customers to prevent risks when online shopping. Firstly, customers chose the prestige e-commerce store. Secondly, the government should take action to avoid goods of prestige from online shopping.

I think about creating an e-commerce site to help customers buy authentic goods with reasonable shipping fees and the shortest time shipment. To do that, it needs to make a subsystem for suppliers to manage their products and distributors. This graduation research is about a module for suppliers in my e-commerce system. I named it Soda e-commerce. This subsystem has a user-friendly experience and a user-friendly user interface to help suppliers bring their products to Soda e-commerce.

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Acronym	English name
UI	User interface
API	Application Programming Interface
ABP	AspNet Boilerplate
E-commerce	Electronic commerce
AWS	Amazon web service
S3	Simple cloud storage
DDD	Domain driven design
UML	Unified Modeling Language

CHAPTER 1. INTRODUCTION

1.1 Motivation

Currently, in the market, according to the trading model, a manufacturer will produce products, and distributors will import and sell to dealers. From there, retailers will bring products to consumers. The management of distributors and agents in practice is quite difficult. Among distributors, dealers have price differences, and the appearance of counterfeit goods does not guarantee product quality. In addition, price is increase two or three times because intermediaries make prices, "pickpocket" consumers. Shoppers have few choices and suggestions and can't tell the difference between fakes. Solving these problems helps the market become stable, suppliers can manage distributors, and buyers are satisfied with the quality and amount of money spent.

1.2 Objectives and scope of the graduation thesis

There are a lot of e-commerce platforms on the market, especially in Vietnam. However, price differences and counterfeit goods have not been taken care of. Most e-commerce platforms aren't interested in distributors and dealers yet. On the side of customers, users are not concerned about the quality of products when shopping online. Distributors and agents do not have appropriate policies.

Therefore, I develop e-commerce that focuses on suppliers, distributors but still brings authentic products to the customer. My E-commerce creates an easy and convenient exchange of purchases. This e-commerce solves management issues of price increment when trading among distributors, maximum cut of intermediaries, bringing quality products to consumers. In addition, the suppliers can manage the distributors bought their goods. This research focused on the module for the supplier in that e-commerce. The main functions of suppliers are managing their products, stock inventory, orders, and reports in this project.

1.3 Tentative solution

It is necessary to create an e-commercial to help suppliers manage distributors and bring products to consumers. I generate a provider's management software to help suppliers can manage their resources. Firstly, I thought about using microservice architecture. After research, I chose ASP.NET Boilerplate (ABP), an open-source and well-documented application framework. This framework can help by offering a microservice-compatible, strict module architecture where your module is split into multiple layers/projects and developed independently. The system needs