ABSTRACT

We are in technology era, everything is trying to automatic or reduce most of human intervention. The e-commerce is something that very familiar with most of people from all in the world. The customer gains many advantages when using e-commerce form, such as reduce time, save energy, etc. Not only customer but also the business from small to big gain the advantages from this form, reduce price of renting place for the store, reduce price of hiring staff to supervising the store, save time on managing the products, bills, or anything else, reduce most of risk that data can be lost. We can see that it win-win situation that both side is gain more advantages than normal traditional commerce.

But, in current day, both customer and business are required more than that, such as the business want to automatic the process of packing products, print bills, reports, auto backup data, etc.; While the customer also need to know when the product available, when product come to them, what event currently occurs, etc. All of that events cannot do by just a people, if need, it will require many people to join in the process to make it available, but that will increase many risks and problems, while we want to reduce it. To solve that, the higher requirements for e-commerce project are placed. Business want to control everything in the process with most of it can run automatic without intervention of human, the software more secure to prevent the hijacking or any destructive actions, if the process still need to human such as delivery, it need to reduce the act of human to increase time of processing. All of that features, are the aims of every e-commerce projects and every developer.

PREFACE

As a junior developer, my aim is building the e-commerce system that can do all of that features. The reason I’m choosing this topic is its popular, and therefore, if I have any problem with the system, I still have a place to base on and solve the puzzle. The technology used in the project is ASP.Net Core 2 for back-end side and basic HTML5 CSS3 JS for front-end side, MSSQL server for database technology. The front-end technology is very common, so I just point the reason why I’m using the ASP.Net Core 2 for the back-end. First, I am confident on my knowledge of ASP.Net MVC. Second, my topic is very old in current day and every developer should know how to build the e-commerce system, because it very popular, example in everywhere, easy to do, easy to learn. So, I have to choose the new technology to balance with the old topic.

The ASP.Net Core framework is not too new, while it is release on Jul 8, 2014 in GitHub as a Microsoft open source project, the core is very familiar with the ASP.Net MVC, but the most valuable of this framework is it allow developer host the side cross platforms. It means developers and the business can reduce the money of renting the server to host their site or their service. But 4 years for a framework, is not a long time to it development. Developers still choose the ASP.Net MVC 5 over ASP.Net Core because the MVC 5 is more stable than current Core. Because it can run cross platform, it means some of feature run only in window must be removed, these missing features is something that developer cannot or not easy to replace. The extension and package support for ASP.Net Core is not enough as the MVC 5. Lack of those things and ASP.Net Core is still now not quite popular in development.

Those disadvantages of ASP.Net Core is some how can affect to my project but I still decide to choose it because I want to challenge my self as new framework and what I can learn from it. It can gain me more experience on handling problems, debug processes, solve or trying to figure the alternative way to solve problems.

1. INTRODUCTION
   1. Overview

- This project topic is about creating the e-commerce site that do basic tasks (add product, login, buy product, payment online) and expand to higher tasks (email notification). The site can mainly divide into two main parts: one for internal staff to manage their site, and one for customer to buy and browse for the products. This project can run online and need the network to send email or process payment. Other technologies were mentioned above is also include in project with specific role in operating the system.

* 1. Goals

- The goals of this project are building the new e-commerce system with ASP.Net Core technology and relate technologies. Also, when building the system, I will research on the ASP.Net Core, and other technologies. The research, the knowledge and problem I have met through the developing project will also discuss in detail in this document.

- The final goals are applying any knowledge to build the ASP.Net Core with basic e-commerce site requirements and some higher features.

* 1. Scope of the project

- The purpose of this project is creating the e-commerce system with basic functions and include some higher functions. The system should be interacted with the user and not occur any fatal error to lose the user data or information. Because it can interact with many customer and need extra information about their identity and private info, the security of the site is also in the requirement list.

- The system not only, provide a way to business manage their data, but also, it provides the effective way of browse data, store data and securing data. It also increases the user experience when customer use the site.

- The final scope is gain the experience on practical project, research new technologies and way of handling any error that can occur while system are using. In other word, this project is a challenge that can help me on increase the view of current e-commerce trends, and also new view in the development process.

1. LITERATURE REVIEW
   1. Introduction