

# AUTOMATED SALE SYSTEM FOR DIGITAL GADGETS AND COMMUNICATION SERVICES

*This article mainly studies the design and implementation of the online sale system, analyzes the benefits brought by the automated processing under the development nowadays, and realizes the online sale system based on ASP.NET according to the demand analysis and overall design.*

## INTRODUCTION

Shopping online is a very successful method that improves the efficiency of our daily life in purchasing part and also brings the amount of production that creates enormous economy income to manufacturers and also government. Through the management of the online shopping services and the comprehensive regulations of sailing, the automated sale system has been realized combined with the most advanced software development technology.

### I. AIM AND OBJECTIVES

The purpose of the automated sale system is to provide an online platform for small-sized companies which mainly sale digital gadgets and communication services. Customers can search the smart phone, electric watch or sim card of certain type. After finding the suitable products they can add the specific goods into their shopping cart for checking and of course the ordered products can be removed out of cart. For each type of product, any number can be chosen only if it is in the legal range. Finally, when clients are going to pay for the products they need to write their information of email, phone number, address and name. After the payment is finished and successful a order record will be stored into the system for the clients to check what exactly they have bought. In this way, amount of time can be saved on the process of purchasing.

Management of the system can also be effective. Admins can edit the detailed information of products including descriptions, price, number and name etc. A product can be removed from the system by deleting and a new goods can be added when it is going to be published. Well, clients' information can also be edited when necessary. With these functions, the company can manage the platform and all sale businesses well.

- Product Page: all products are classified and displayed according to the category
- Shopping Cart: ordered items are listed in the shopping cart

- Order Records: finished orders will be stored in this part
- Payment Gateway: PayPal is supported for paying online

## II. ADVANTAGES

Having a website creates better relationships with customers. Information can be delivered instantly to clients through email. Additionally, customers can view all products online and also leave feedback to the business. Because of the ease of access on the site, the number of clients will increase and the sale company can be followed easily by people.

The digital process of sale has brought various benefits to society. More job opportunities are created because online shopping brings the development of delivering. Cheaper goods can be accessed due to the on need of a market in reality. The most important is that the big improvement of efficiency has brought unbelievable rising to economic.

## III. IMPLEMENTATION

For the implementation, some basic software are needed. Visual Studio 2010 or higher version is used as the programming platform. The resources of web application developer should be downloaded so that ASP.NET project can be created successfully. Basic C# language programming, HTML design and SQL syntax should be equipped. Database software such as MySQL is used to realize the information communication. The design of relationship between objects should be clear and logic. Clients' information should be private and protected.

- Operating System: Windows 10/11
- Programming platform: Visual Studio 2019
- Project type: ASP.NET
- Database: MySQL Workbench 8.0 CE
- Presentation Layer: HTML, CSS

*Donggui Hu*, undergraduate student in the Faculty of Information Technology and Control of BSUIR, 2472724359@qq.com.

*Natallia Khajynova*, Senior Lecturer in the Faculty of Information Technology and Control of BSUIR, khajynova@bsuir.by.