

# Designing and Developing of E-Commerce Website for Unused New Goods Shopping

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## ABSTRACT

According to the fast-changing business environment nowadays, we have to be more effective and faster in responding to customers' needs to make them able to access products instantly. This can be done by designing an E-commerce web website for unused goods, which sells various fashions and goods to the customers. To implement an online shopping website, a virtual store on the Internet is needed which allows customers to seek products and select them from a catalog. The customer needs to fill some fields to order a specific product. The purpose of this paper is designing and implementation of the website of unused goods, which sells various fashions and goods to the customers, the good that will be for sale on the website are new unused goods which the customer couldn't return to the store they buy from to any reason. The proposed system was developed using the Unified Modeling Language (UML), ASP.NET and Access.

**Keywords :** Online Shopping System, Unused goods and E-commerce Website.

## I. INTRODUCTION

Electronic commerce (E-commerce) is the selling and buying of services and goods, or conducting data or funds, through an electronic network, mainly the internet. During the era of technology, e-commerce is gaining attention as a used and accepted business paradigm [1, 2]. These commercial transactions happen either as business-to-consumer (B2C), business-to-business (B2B), consumer-to-business (C2B) or consumer-to-consumer (C2C). The terms e-business and e-commerce can be interchangeably used. Also, E-tail term is sometimes used when referring to online shopping transactional processes. Increasingly business houses are employing websites that provide the functionality to perform over the web commercial transactions. It is realistic to say that

the shopping process on the web will become a commonplace.

Since the emergence of the World Wide Web (WWW), vendors can easily sell their products to different kinds of people over the internet. Many people prefer online shopping because of its different kinds of convenience. They can find a specific product by searching various online stores which are less time consuming and tedious process rather than searching this product in various stores in the market [3].

The most common online retailing companies are Amazon.com, Alibaba, and eBay. The success of retail is no more about physical stores, this is due to the increase in stores that offers online shopping for consumers [3, 4].

## II. RELATED WORKS

Retailbd is e-commerce online website, people can buy from it limited items such as wallets, watches, bag sunglasses, and belts [3]. There are choices for women and men. You can choose your category. The website uses high-quality photos so the customer can get details about the products easily. Figure 1: Home page of retailbd.com.

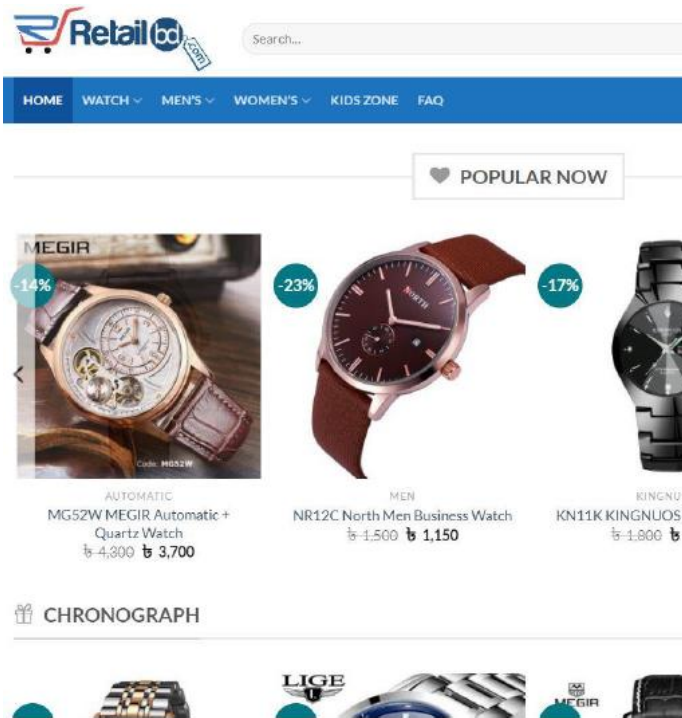


Figure 1 : Home page of retailbd.com

An Online Shopping is a web application for lifestyle e-commerce which has been developed by [5], the proposed web application retails various fashion and lifestyle products (Men's Wear). Moreover; the proposed application enables the user to view available products and to purchase any of them immediately using payment through PayPal processor (Instant Pay) and order anything using Cash on Delivery. Figure 2: the proposed web application home page.



Figure 2 : Home page of the proposed web application. Rabbi and Islam in [3] proposed an online E-COMMERCE site. This proposed site is used for online shopping and the user can check ordered items online and the delivery is free to the user address. It is a good interaction source between the shopkeepers and the user. Figure 3: The proposed web site home page.

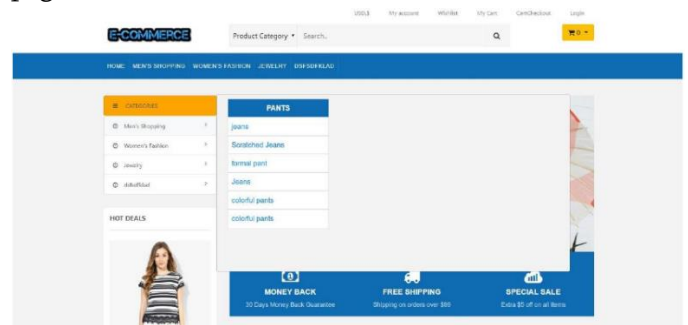


Figure 3: Home page of the proposed web site.

The revolution of technology influenced everything [6-83], even the methods of e-commerce and online shopping. Today, the Artificial Intelligence (AI) algorithms use is expansive, mainly in providing solutions to challenging problems including information retrieval [53], image segmentation [7] and Healthcare Monitoring system [46, 57]. Accordingly, utilizing web technology and AI algorithms, many researchers have created as well as implemented E-commerce and online shopping applications systems to solve issues in various fields.

### III. METHODOLOGY

The UML is the standard language for specifying, constructing, documenting and visualizing all the software system artifacts as well as for other non-software systems and business modeling. The UML denotes a group of best engineering practices that have demonstrated success in complex and large systems modeling [84-88].

The application architects and programmers, using UML, can make a project blueprint, which makes the actual process of software development easier.

#### 3.1 Use Case Diagram

Use case diagram is a type of UML diagram which allows the modeling of system functions in addition to the actors which interact with the functions [19, 87, 89, 90]. In the proposed work the actors are the System Administrator, User, and delivery. Figure 4 shows the use case diagram for the proposed system.

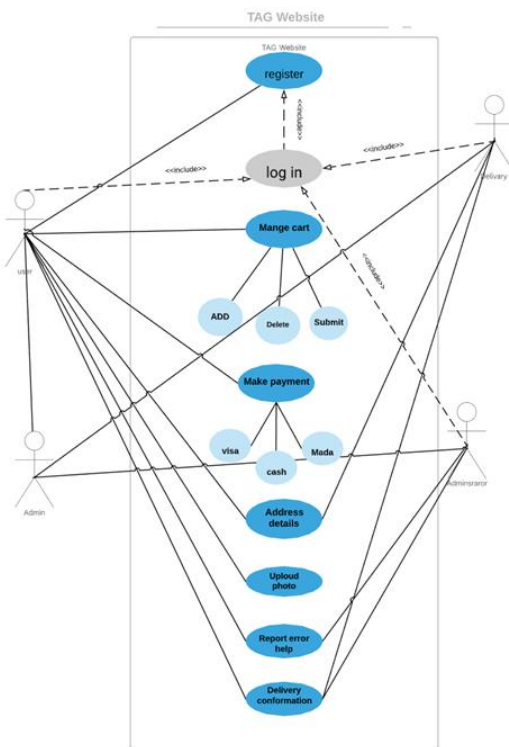


Figure 4: Use Case Diagram of the proposed system.

#### 3.2 Functional Decomposition Diagram

The functional decomposition diagram (FDD) is defined as a top-down representation of process or function. The business analyst uses a functional development diagram for showing business function and break these functions into lower-level operations and processes [19, 87, 89, 90]. Figure 5 shows the FDD for the proposed system.

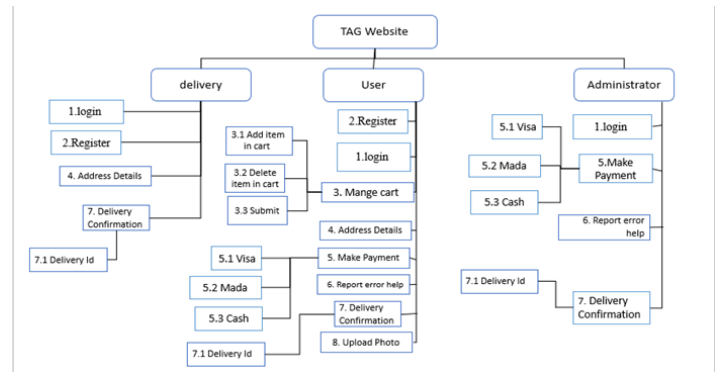


Figure 5 shows the FDD for the proposed system.

#### 3.3 Entity-Relationship (ER) Diagram

ER diagram shows the entity set relationships stored in a database. In other words, ER diagrams assist you to explain the logical structure of databases. ER Diagram contains many symbols that are specialized, and its denotations make this model unique [44, 45, 54, 55, 91]. The purpose of the ER Diagram is to denote the infrastructure of the entity framework. Figure 6 demonstrates the proposed system ER diagram.

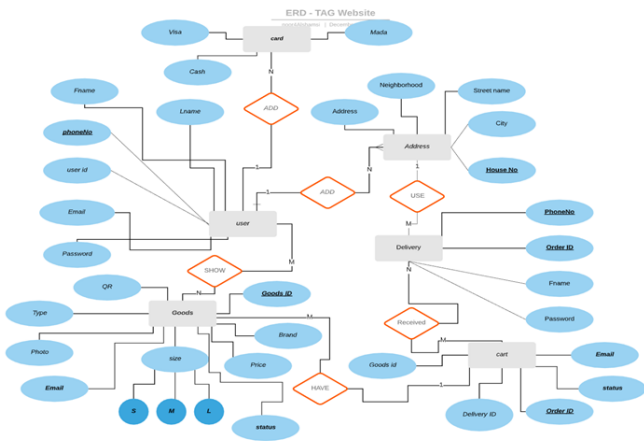


Figure 6 shows the ER diagram for the proposed system.

#### IV. INTERFACE DESIGN

User interface design mostly denotes the elements' visual layout which interacts with the user in a technological product, or website. This may be the visual layout of a webpage. or the control buttons of a radio, designs of the User interface must not be only attractive to users but also must be created with users in mind and functional. Figures 7 and 8 show the registration interface and the products available for the customer to buy interface respectively.



Figure 7: Registration interface.

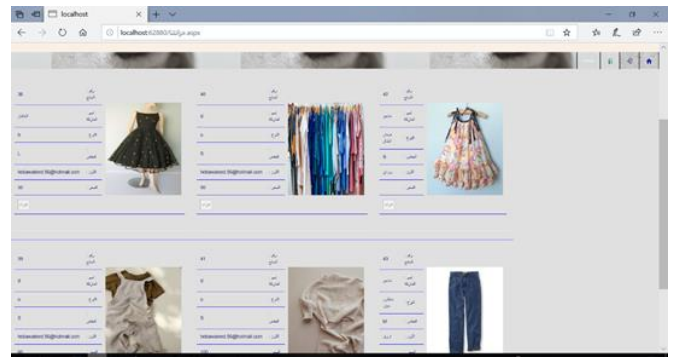


Figure 8: the products available for the customer to buy.

#### V. DISCUSSION

For evaluation purposes, 20 students were asked to test the prototype. They were given brief disruption about the usage of the prototype and the user interface. After that, they tested the system and responded to the questionnaire which consists of 10 items designed to measure the user's satisfaction level. The result and the usability level of the system according to the provided feedback by 20 students can be indicated in figure 9. As can be interpreted from the result, a high percentage of users agrees that system is useful, practical and fulfill the project's primary objective.

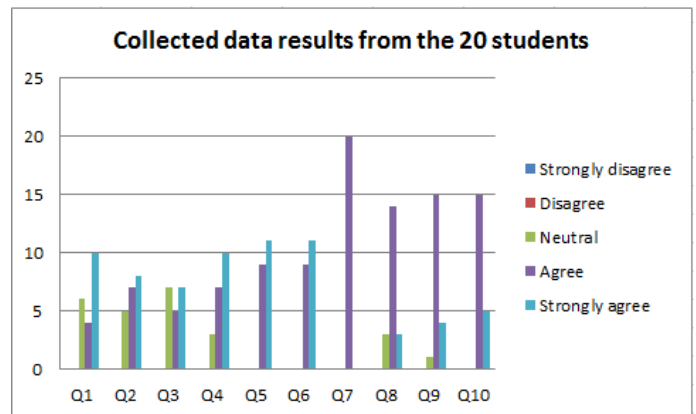


Figure 10: collected data results from the 20 students.

#### VI. CONCLUSION

The main objective of our project is to achieve good interaction between the seller and buyer. And to

make an easy marketing system and save time. In this work, a website of unused goods online shopping has been designed and implemented, the proposed online shopping website sells various fashions and goods to the customers, the goods that will be for sale on the website are new unused goods which the customer couldn't return to the store they buy from to any reason. The proposed system was developed using the Unified Modeling Language (UML), ASP.NET and Access.

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