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Development of AI Based E-Commerce IOT platform For Shop Now Application

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ABSTRACT

The Shop Now application is an e-commerce project designed and developed to facilitate the buying and selling of books over the internet. Electronic Commerce is the process of doing business through IOT computer networks. A person sitting on his chair in front of a computer can access all the facilities of the Internet to buy or sell the products. E-commerce has made it easier for humans to reduce physical work and save time. The Shop Now application provides customers with online shopping through a web browser. A customer can, create, sign in to his account, place items into a shopping cart and purchase it. The Administrator will have additional functionalities when compared the common user. He can add, delete and update the book details and also confirm a placed order.

Key Words: IOT, E-Commerce, Buy, Sell, Shop

INTRODUCTION:

Shop Now Application is an electronic commerce platform, which facilitates buying or selling of products based on the type of user[1]. For the demonstration, the product has been identified as books. There are two entities that will have the access to the system. One is the seller and another one will be the buyer. The user needs to register himself/herself as either buyer/seller to access the ShopNow Portal[2].

The seller can add product details, view all the order details, and can also view the sales of the products[3]. Buyers will have the facilities to access the available products to buy and place the order[4]. Users need to register with basic registration details (Name, Password, E-Mail ID, Address, and Phone number) to generate the user credentials[5]. Users can view the order history of their purchased/sold product details with the status. An invoice printing facility has been provided to the buyer[6].

MATERIALS AND METHODS:

This existing system of buying books has several disadvantages. It requires lots of time to travel to a particular shop to buy the book. It is having lots of manual work. Since everyone is leading busy life nowadays, time means a lot to everyone. Also, there are expenses for traveling from house to shop. It is less user-friendly. It is difficult to identify the required product. Moreover, the shop from where we would like to buy something may not be open always. Hence, we must adjust our time with the shopkeeper's time or vendor's time. In the current system, the seller needs to maintain separate applications or records to store the information like which are products available, which buyer is given an order and its status.

Disadvantages:

- Manual work
- Multiple copies of record maintenance
- Availability of business
- Time-consuming

SYSTEM SPECIFICATIONS

Hardware Requirements:

- Pentium-IV and above speed 2.3GHz and above (Processor).
- 4GB Ram
- Hard disk 10 GB

Software Requirements:

- Operating System: Windows 7 and above
- Front-End: PHP, HTML, CSS, JAVASCRIPT, JQUERY
- Back-End: MySQL
- Web Server: XAMPP Apache SERVER 7.3.2.

Xampp 7.3.2 Apache: This is a local web server installer. Once successful installation it will act as a web server.

Bootstrap: Bootstrap is a powerful toolkit – a collection of HTML, CSS, and JavaScript tools for creating and building web pages and web applications. It is a free and open-source project. Its main advantages

are that it Is responsive by design, it maintains wide browser compatibility, it offers consistent design by using re-usable components, and it is very easy to use and quick to

SYSTEM DESIGN:

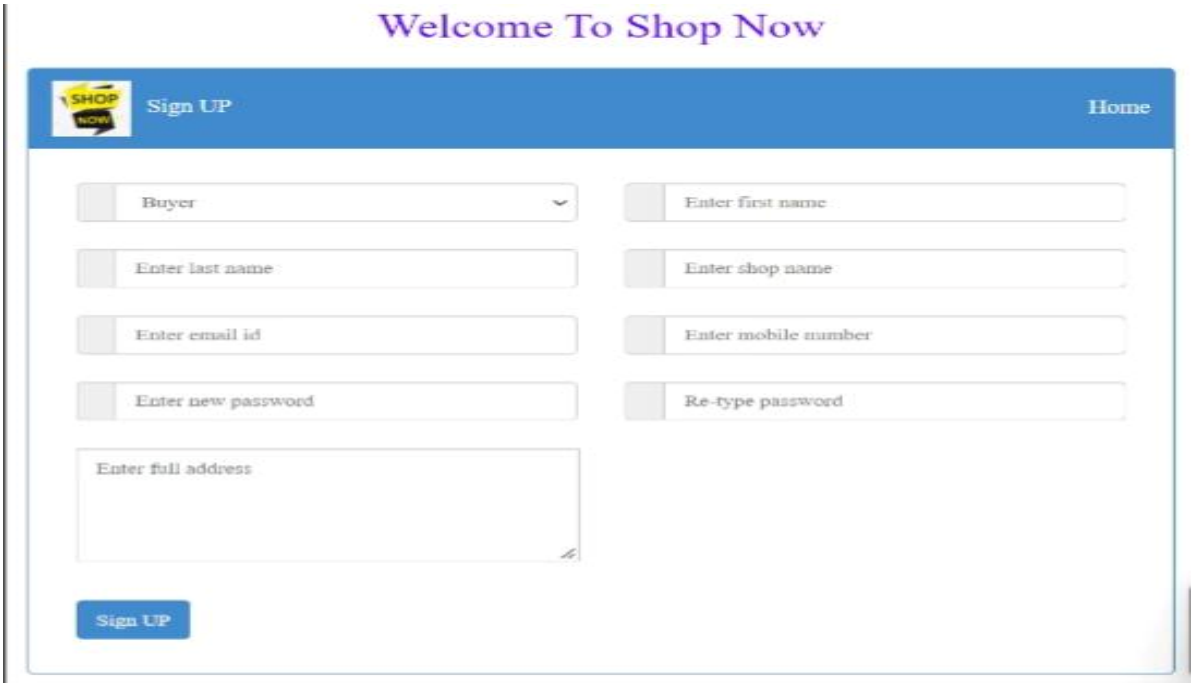
Design phase deals with the transformation of user requirements into a logically working system. This section consists of the Software Development Life Cycle model. DFD and flowchart.

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization. Once the software requirements have been analyzed and specified the software design involves three technical activities – design, coding, implementation, and testing that are required to build and verify the software. Design is the only way to accurately translate the customer's requirements into finished software or a system. Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software.

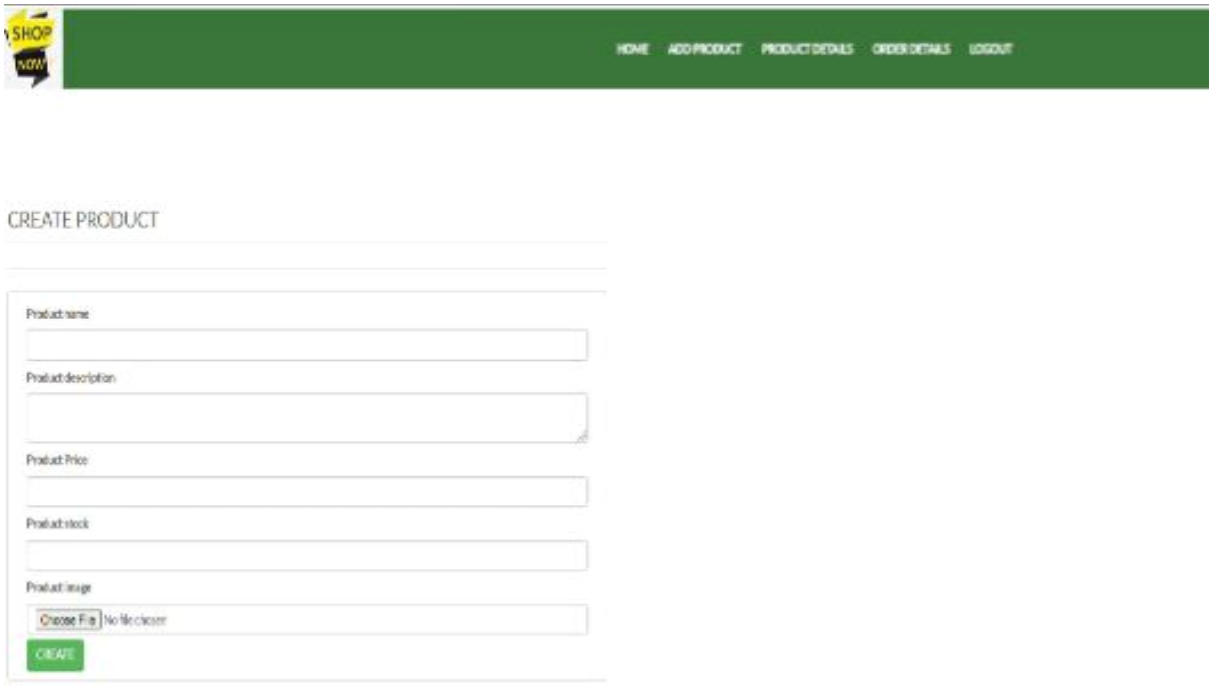
SAMPLE PREPARATION:

1. Login page

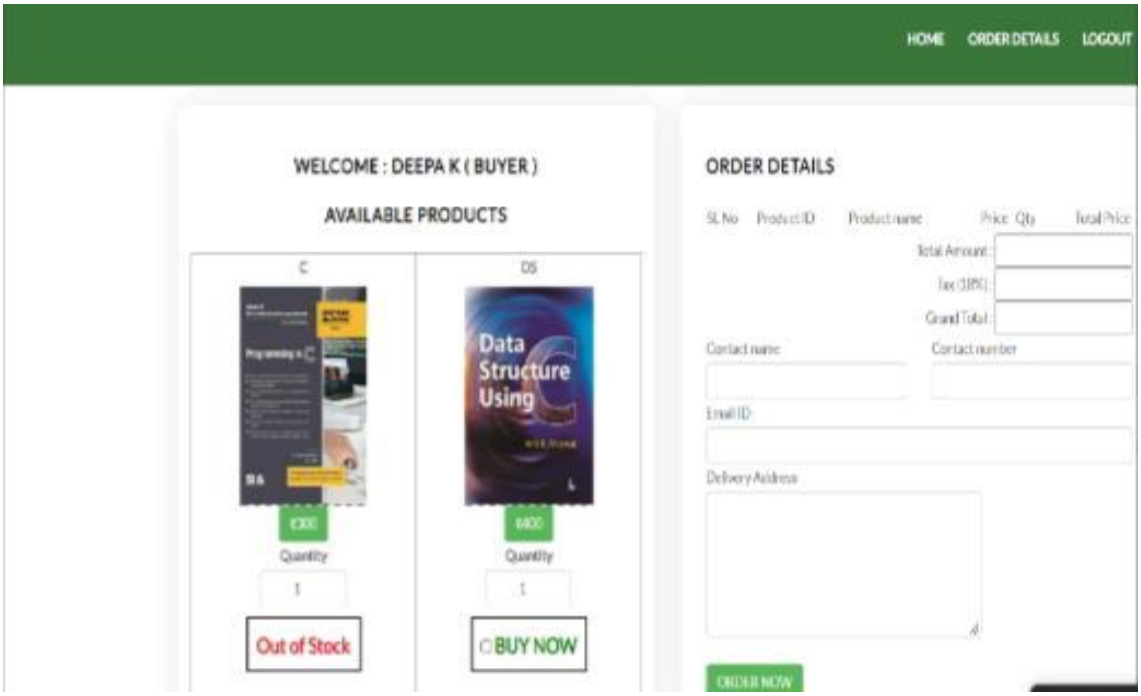
2. Sign up page



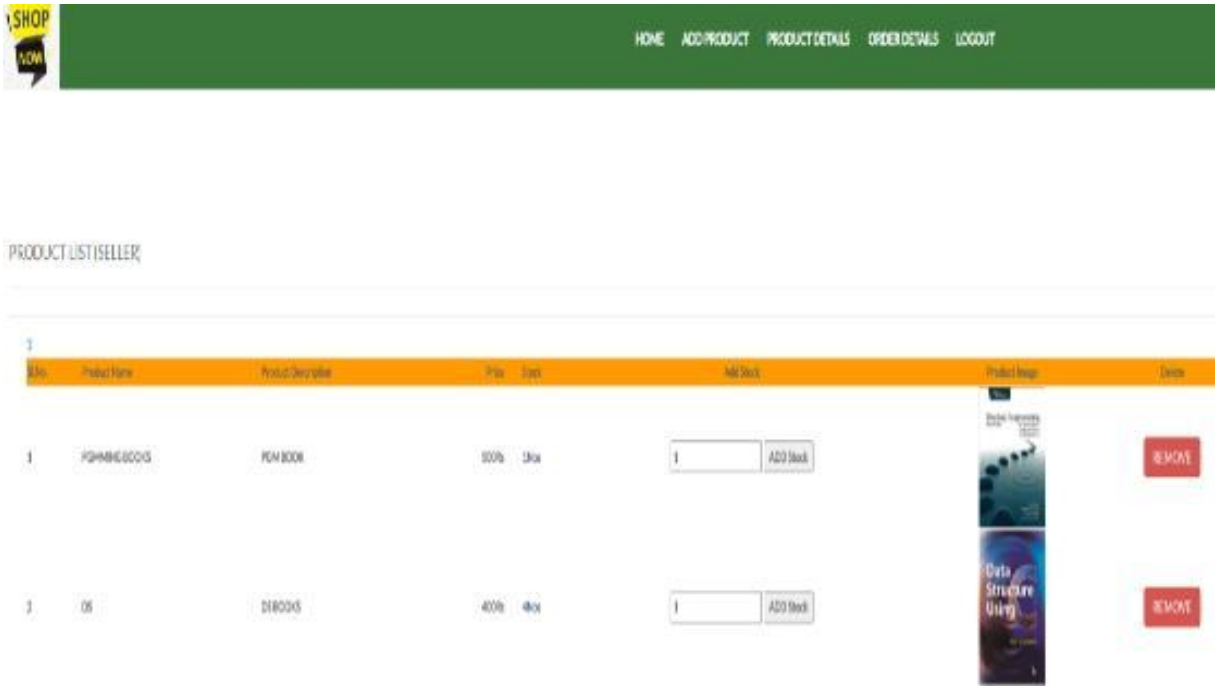
3. Add product page (Seller)



4.Product details

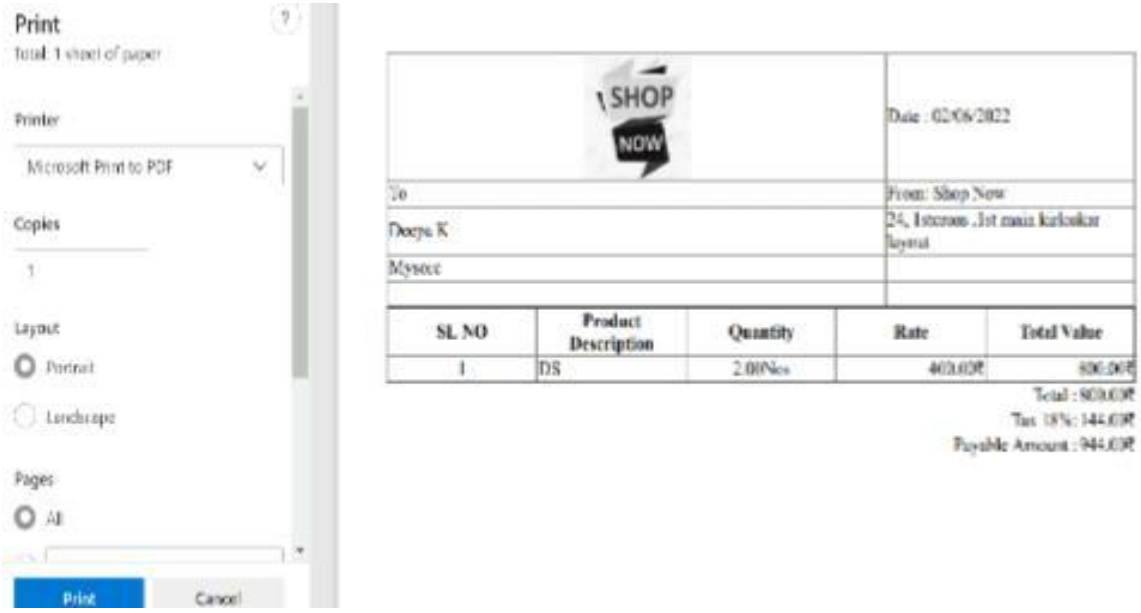


5.Buyer home page



6.Buyer order item details

8.Invoice



CONCLUSION:

A good shopnow design must be accompanied with user-friendly shopping cart application logic.It should be convenient for the customer to view the contents of their cart and to be able to receive or reject items to their cart.

This project helps in understanding the creation of an interactive web page and the technologies used to implement it. The design of the project which includes Data Model illustrates how the database is built with different tables, how the data is accessed and processed from the tables. The building of the project has given me a precise knowledge about how PHP is used to develop a website, how it connects to the database to access the data and how the data and web pages are modified to provide the user with a shopNow application.

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