AN E-COMMERCE WEB-SITE USING PYTHON AND DJANGO

Prof. Mrs. Anagha Rathkanthiwar

Professor, Department of Electronics and Telecommunication

Priyadarshini College of Engineering

Nagpur, India

Swapnil Kale

Student, Department of Electronics and Telecommunication

Priyadarshini College of Engineering

Nagpur, India

Neha Satpudke

Student, Department of Electronics and Telecommunication

Priyadarshini College of Engineering
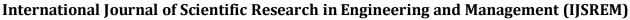
Nagpur, India

Snehal Sontakke

Student, Department of Electronics and Telecommunication

Priyadarshini College of Engineering

Nagpur, India

Snehal Waghmare

Student, Department of Electronics and Telecommunication

Priyadarshini College of Engineering

Nagpur, India

*Abstract***--** This report is conducted in order to set the foundations upon which the final project of my MSc in Advanced Computer Science and IT Management will be built. The title of the project is: "Website Development Project: Building an IT employment e-Business Website" and is supervised by Dr. Donal Flynn. The main target of this report is to conduct a thorough and in-depth analysis of the vast field of e-Business and at the same time explore the opportunities and the conditions that could lead into building a successful e-Business website on Information echnology employment. The approach that was followed was to initially carry out a survey of relevant literature and related work on the broad spectrum of e-Business trying to examine not only the technical dimensions of the subject but also the business and the social ones. E-Business has a growing impact on our world and has revolutionized aspect of human activity.

INTRODUCTION

E-commerce (electronic commerce or EC) is the buying and selling of goods and services, or the transmitting of funds or data, over an electronic network, primarily the internet. These business transactions occur either as business-to-business, business-to-consumer, consumer-to-consumer or consumer-to-business. E-commerce shops have become part of our daily lives. Technological advancement has made it possible for people to sit in the convenience of their homes and still shop online without going to a physical shop. Africans have also joined the trend of e-commerce business, so this project is meant to design an e-Commerce online shop so that the people in Ghana (Africa) will be able to purchase their goods and services online. This project is mainly divided into two main categories: The Administrators and the Customers/Users. The store manager

and the staff members operate as the administrators. They can add, edit, update products or, delete products thus they able to change the names of products, change price sand, add or remove products. The customer can search for products selection, update the cart, remove products from the cart and check out from the shop. The customer is also able to update his information such as names, address and other data.

LITERATURE SURVEY

Following are the authors whose papers were studied and their abstract:

1. According to Damanpour (2001) "E-commerce and E-service will move to the forefront of technology priorities. To take full advantage of the E-service, you need to look at your organization from alternative perspective. The question is how to deal with these changes, at what cost, and at what speed. This is not the time to loyalty, profitability and competition advantage. As we have seen, e-commerce has noticed remarkable growth and success over the last years. Despite the numerous examples of successful e-commerce there are many examples where e-Business failed to succeed. By looking at those characteristic examples, this report tries to understand the factors that lead to a successful e-commerce but also to figure out the dangers that may lead to failure. These factors would form a helpful guideline, which would help in making the IT employment website as successful as possible.

2. As any other disruptive technology e-Business has affected financial markets in a variety of ways. An important characteristic that Bev (2008) examines is Disintermediation, which refers to the non-existence of intermediaries in a supply chain. Internet allows full disintermediation because of the market's transparency. Disintermediation is also examined by Evans and Wurster (2000). According to their work, the new form of disintermediation that was developed along with the Information Technology, "allows for the traditional richness/reach curve to be displaced, allowing new players to offer greater reach and greater richness simultaneously". E-commerce are created, which aim to play exactly the role of the intermediate between the manufacturers and the customers. This is called reintermediation.

3. Bev (2008) mentions some of the advantages and the disadvantages of disintermediated channels. The main advantages are reduction to search costs, price dispersion

price transparency and price differentiation. Another thing to consider is some important of disintermediated channels. Although Bev (2008) slightly mentions some of them, a more careful and thorough research should point out that one of the most important challenges of these channels, is to create a safe business transaction environment. Being the intermediate between the producer and the customer involves many security risks, which should be thought of in depth, before building an e-commerce.

SOFTEWARE REQUIREMENT

1.Integrated Development Environment (IDE) can be defined as software that give its users an environment for performing programming, along with development as well as testing and debugging the application.

2. Visual Studio Code: It is popular open-source IDE or editor for major programming language. It supports windows, Linux, macOS. By default, popular language JavaScript, NodeJS, typescript and Nodejs.

3. Browser: Chrome Technology.

DATABASE

PG Admin: It is the leading open-source management tool for PostgreSQL, the world's most advanced open-source database Admin 4 is designed to meet the need of both novice and experiences PostgreSQL users alike, providing a powerful graphical interface that simplifies the creation, maintenance and use of database objects.

TECHNOLOGY USED

1. Front End Technology:

HTML, CSS:

CSS is a language of styles rules that we use to apply styling to our HTML content, for example sting background colours and fonts, and laying out our content in multiple columns.

JavaScript:

JavaScript is a scripting or programming language that allows you implement complex features on a web pages every time a web page does more than just sit there and display static information for you to look at displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes.

Bootstrap:

Bootstrap is a potent front-end framework used to create modern websites and web appestat's opensource and free to use, yet features numerous HTML and CSS templates for UI interface elements such as buttons and forms.

2. LANGUAGE:

Python (Version 3.9.3): It is a general-purpose coding language which means that, unlike HTML, CSS and

JavaScript, it can be used for other types of programming and software developments besides web development.
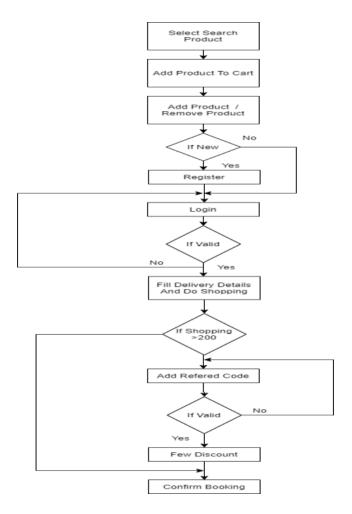
3. BACK-END TECHNOLOGY

Django (Version 3.9):

Is a high-level python web framework that encourages rapid development and clean, pragmatic design, built by experiences developers, it takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel.

System:The system is a software-based web-application followed by some trending technologies like Python, Django framework and Machine leaking. This trending technology has played a vital multi-level marketing wit} grocery system is a design based in order to illuminate the problem. This system is based on computer technology that gives service to the users. The proposed system is designed to eliminate all the drawbacks of the existing online grocery management software. The system shall be responsible for maintaining information about customers and products which are available

PROPOSED SYSTEM

FUTURE PROSPECTS

In terms of future of e-commerce in the 21st century, experts predict the promising and glorious figures. In the foreseeable future, e-commerce will be confirmed as the major tool of sale for them goods and services. Successful e-commerce will become the notion which will be inseparable from the web because e-shopping is becoming more and more popular and natural. Thus, prevailing to future trends, e-commerce will have huge potential growth in sales and promotion. Each year, there is a continuous growth in e-commerce deals. The volumes of sales for online store are much higher than the brick and mortars. To the present

day, the internet sales boom the foundation for magnificent e-commerce future.

CONCLUSION

E-commerce still represents one of the business methods that take advantage if done the right way, even if the stock market and commodities fell, but E-Commerce still able to survive and receive high transaction. E-commerce has a tremendous opportunity in the course of or business in Malaysia. In addition, it is also to introducing new techniques and styles in a transaction. Use the extensive E-Commerce in the Internet world is actually much better to bring the goodness of the individual or the state. E-Commerce has undeniably become an important part of our society. The successful companies of the future will be those that take E-Commerce seriously, dedicating sufficient resources to its development. E-Commerce is not an IT issue but a whole business undertaking. Companies that use it as a reason for completely re-designing their business processes are likely to reap the greatest benefits. Moreover, E-Commerce is a helpful technology that gives the consumer access to business and companies all over the world.

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