

# DAYANANDA SAGAR UNIVERSITY



## **A Web Programming Synopsis**

**ON**

**“Ekart, Ecommerce website”**

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE & ENGINEERING**

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## **1. INTRODUCTION:**

Computer plays an important role in our daily life. Anything we want we can get only in one mouse click. Speed, reliability and accuracy of the computer make it a powerful tool for different purposes. A very important and basic need of today's modern business world is the quick availability and processing of information using computer. One can easily get the type of required information within a fraction of a second. The project that I have taken is also in this category which is used in our daily life whenever we want to purchase some items we can easily get them at our home.

### **Objective:**

The objective of project on Online Shopping Portal is to developing a GUI based automated system, which will cover all the information Related to the all products which is used in our daily life. For example – Mobiles Phones, Laptops, Clothes, Books, Electronic Items and many more. So by this GUI based automated system a user want to purchase something then it only a mouse click away to purchase these products.

## **2. PROBLEM STATEMENT:**

One must know what the problem is before it can be solved. The basis for the online shopping portal is to buy products online and save the timing.

A Online shopping portal, who want to buy any product of their need, has to contact different Shoppers, before deciding upon a particular Product that best suit his needs, requirements and satisfaction. Moreover, most of the work involved in this development process has to be done manually which is very time consuming and cumbersome and also, it reduces the efficiency, accuracy.

To know the facts and understanding of the problem in detail, *System Analysis* is carried out. It is the process of studying the business processes and procedures, generally referred to as business systems, to see how they can operate and whether improvement is needed.

This becomes a difficult task as information is difficult to collect from various register.

### **3. OPERATIONAL DEFINITION:**

This project Ekart, Ecommerce website aims to make online shopping simple and easy for customers.

The aim of this project is to have a display of wide range of products, and make a user friendly interface to show maximum products in one page.

In this system, there is a registration process each for the Product buyer and seller. The Administrator of the site verifies the Provider after his registration and if satisfied, assigns him a user name and password.

#### **4. SCOPE OF THE PROJECT:**

Online Shopping Portal System is a computerized, online solution to the various problems faced by the Product buyer and seller wishing to outsource their software development work to a Provider at an economical cost, thus achieving high performance, accuracy, reliability and high speed of data retrieval.

In this system, there is a registration process each for the Product buyer and seller. The Administrator of the site verifies the Provider after his registration and if satisfied, assigns him a user name and password.

Our site can be used by anyone who is searching for Products whether he/she is first time visiting our site. Our site also provides some discounted Products as same u get on any shop.

**The software covers the following point while keeping in mind user's requirement-**

:

- Fast online access of information about various Products.
- Search Products by keywords like functional area, experience and also by initials of the Product's name.
- Administrator will maintain the database and perform all process.

**There are 2 categories of users-**

1. General User
2. Registered Users

## **5. EXISTING SYSTEM:**

The Online Shopping Portal is an Intermediate between Product Buyers and Sellers. The purpose is to enable the Product Buyers to search for the Products from any remote location. The Product Buyer can Search for the Products from any remote location.

## **6. CURRENT ISSUES OR PROBLEMS IN EXISTING SYSTEM:**

- 1) Lack of immediate retrieval of information:** In manual system, lot of time is wasted in retrieving information. Much searching is required before required information is found. This wastes a lot of time of the user as well as the person.
- 2) Lack of immediate information storage:** In manual system, it is difficult to store information at proper place at that very moment. This is because the person is unable to quickly locate the place where the information is to be stored.
- 3) Prompts updating not possible:** Changes are quite natural in all walks of life. Information and stored data also changes from time to time. These changes should be incorporated in the working also to keep the information up to date. However, bringing about changes through the manual system is a slow and tedious process because of which inaccurate information storage occurs.
- 4) Unplanned working:** The manual system lacks the element of planned working. Records are not properly maintained. This creates a lot of problems at times like during information retrieval and storage.
- 5) Insignificant generation of managerial and Strategic reports.:** In manual system, reports for management are difficult to be generated and strategic reports are almost impossible. This is because for these reports proper storage of information, its retrieval and it's filtering (i.e. choosing information that meets criteria are very important and are very tough in manual system.
- 6) Accuracy:** The manual system lacks accuracy in working and a number of operations may be performed incorrectly. The computations that are done in the organization may be incorrect and whatever are generated in the system may be inaccurate.
- 7) Reliability:** The reliability of a manual system is considered to be low because of the above given reasons including the fact that 'To error is human'. Any task that is performed by men, always contain the risk of errors.
- 8) Redundancy of information:** In manual system, particular information may be stored at a number of places, lending to redundancy. Redundancy of data or information creates a number of problems storage space is wasted; changes at one place are to be made at a number of places and so on.

## **7,PROPOSED SOLUTION:**

- 1) Immediate retrieval of information:**The main objective of the new system is to provide for quick and efficient retrieval of information. Any type of information would be available to the user whenever he requires. Facility would be provided for online query to cut down on the response time greatly.
- 2) Immediate storage of information:**In the proposed system, it will be easy to store information at any given time at the correct places. The location of storage would be easily available and user will face no difficulty.
- 3) Prompt updating of information:**In the proposed system, the information will always remain up to date as the updating will be prompt and without any efforts. This factor will be of great importance in the proposed system as it determines the integrity of the information stored.
- 4) Fast computation of information:**The computation of information will be quite fast in the proposed system. Not only mathematical calculations, but also logical comparisons will be quick in the new system.
- 5) Planned approach toward working:**The working in the service center information system will be well planned and organized. The data will be stored properly in the data store, which will help in retrieval of information as well as in its storage.
- 6) Generation of managerial and strategic reports:**The new system would provide for regular generation of reports, which would help the management in decisions making work and in controlling the overall working of the organization. The generation, of these reports would be possible only if the system is organized such that retrieval of information can be made on conditions.
- 7) Accuracy:**The level of accuracy in the new proposed system would be higher. All operations and computations would be done correctly and this will ensure that whatever information is coming from the center, it is accurate.
- 8) Reliability:** The reliability of the proposed system would be high due to the above stated reasons. The reason for the increased reliability of the system is that now there would be proper storage of information, its maintenance would be well managed and retrieval would be possible in the desired manner.
- 9) Non Redundant Information**

In the new system, utmost care would be taken that no information is repeated, any usage of storage or otherwise. This would assure economic usage of storage or space and consistency in the data stored. This will also help make those changes easily as the change would have to be made only at that very place and no where else.



## **8.SOFTWARE AND HARDWARE REQUIREMENTS:**

### **HARDWARE:**

i3 processor-based computing or  
higher Memory: 4 GB RAM  
Hard drive: 50 GB

### **SOFTWARE:**

Code editor: Visual studio code  
Operating System : Windows or  
Linux Backend: sqlite, python  
Frontend: Django, HTML, CSS, Java script

## **9.POSSIBLE OUTCOMES:**

Objective describes what the prospective users of the system want from the system. Being an important part of the system development process, preparation of the requirement specification has been done after studying the existing procedure and personal interaction with prospective users.

The Online Shopping Portal is an Intermediate between Product Buyers and Sellers. The purpose is to enable the Product Buyers to search for the Products from any remote location.

The Product Buyer can Search for the Products from any remote location.

We are going to design an application which is beneficial for all those who wants to do shopping from home. The main aim of this software is to provide Products according to their area of need. It also provides information about various companies to users and Products of those companies. The administrator will maintain the database and perform all updation and deletion process.