Shop-Com

(A Shopping WebApp using Comparison Analysis)

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***Abstract*:** "SHOP-COM" is a web based application. "E-COMMERCE SHOPPING USING COMPARISON SYSTEM" is a Comparison based system. This Comparison System empowering an Online Transaction for buy any products from online shopping sites with the product comparison system which will be used by the online customer.

We are in the verse of advance technology and here we are developing an advance online shopping system where customer can compare the product and get the product in best price rate.

Price comparison sites and comparison-shopping engine (PCE) gives ecommerce traders a good opportunity to boost their sales, attract new customers and go ahead against their competitors. Even Shoppers often look for best deals and offers for a particular product which they are looking for. It is difficult to visit each and every website for comparing the deals or a price of a particular product. Hence this comparison-shopping site is proposed which will help ecommerce merchants as well as shoppers for collecting product information, including price list, from participating retailers and then it displays collective information on a single result page in response to a shopper's or ecommerce merchant's search query. In this way, shoppers can compare prices, and service from multiple retailers on a single page and choose the merchant that offers the best overall value.

Keywords: E-commerce, Comparison-Shopping Engine.

INTRODUCTION

Software design sits at the technical kernel of the software engineering process and is applied regardless of the development paradigm and area of application. Design is the first step in the development phase for any engineered product or system. The designer's goal is to produce a model or representation of an entity that will later be built.

Beginning, once system requirement have been specified and analyzed, system design is the first of the three technical activities -design, code and test that is required to build and verify software.

Advancing technology has brought a lot of innovation and improvement to this sector and still there is scope for lot of advancement. Thus, "SHOP-COM (An Online Shopping Web App with Comparison Analysis)" is an important social need of today.

This project is going to develop a mobile application which named as 'Shop-Com'.

Shop-Com is an online web app to help consumers to search product price, compare product price and spend money wisely.

This application will show different prices so that consumer can compare them and then make a decision. The main reason for developing this project is to benefit people in spending lesser money with product comparison.

A system was needed to organize those information, which enabled people to determine the best prices around easily. In addition, with the help of this system, we hoped to fight against inflation. Since better prices could be located easily, the shops that have higher price bracket would face the pressure, and thus reducing their price to a more reasonable level.

Literature Review

1.1 Existing System:

There are some existing shopping websites which gives comparison of products but there are some disadvantages of those shopping sites:

1) Alatest:

With a great, user-friendly main page, this website uses a **search suggestion engine** that really comes in handy. Allowing users to compare one product prices in different stores is a great thing to do, but what's even greater is the fact that you are able to make an overall comparison of the product.

2) PriceGrbber:

Allowing users to add and see reviews and ratings, this is one of the best product comparison websites out there. With the option of **sorting the results** based on different criteria's, and with a sidebar that allows you to refine the results.

2.2 Disadvantages of existing system:

1. There is a facility of comparison between the product prices through different websites but this shopping sites compare two product of same brand. It does not gives a comparison of a single product within the website.
2. In the existing system the sensitive and confidential information such as pin number, social security numbers, debit and credit card numbers, cvv numbers directly used in online payments. The many third-party applications use this security numbers for online transaction.

2.3 Technology Used (Main Technology):

2.3.1 Java:

- Java is a general-purpose programming language that is class-based, object-oriented and designed to have as few implementation dependencies as possible. It is intended to let application developers write once, run anywhere (WORA), meaning that compiled Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to byte code that can run on any Java virtual machine (JVM) regardless of the underlying computer architecture.
- The original and reference implementation Java compilers, virtual machines, and class libraries were originally released by Sun under proprietary licenses.

2.3.2 Spring Framework:

- Spring is a lightweight framework. It can be thought of as a framework of frameworks because it provides support to various frameworks such as Struts, Hibernate, Tapestry, EJB, JSF etc. The framework, in broader sense, can be defined as a structure where we find solution of the various technical problems.
- Spring framework provides templates for JDBC, Hibernate, JPA etc. technologies. So there is no need to write too much code. It hides the basic steps of these technologies.
- Spring framework is lightweight because of its POJO (Plain Old Java Object) implementation.

2.4 Supporting Technology

4.2.1 Java Server Pages:

Java Server Pages (JSP) is a server-side programming technology that enables the creation of dynamic, platform-independent method for building Web-based applications. JSP have access to the entire family of Java APIs, including the JDBC API to access enterprise databases. This tutorial will teach you how to use Java Server Pages to develop your web applications in simple and easy steps.

2.4.2 HTML:

An HTML page that contains a link to a Java servlet is sometimes given the file name suffix of .JSP.

2.4.3 NetBeans:

- NetBeans is an open-source integrated development environment (IDE) for developing with Java, PHP, C++, and other programming languages. NetBeans is also referred to as a platform of modular components used for developing Java desktop applications.
- NetBeans is coded in Java and runs on most operating systems with a Java Virtual Machine (JVM), including Solaris, Mac OS, and Linux.

Proposed Work:

3.1 Problem Definition:

There is no facility of comparison between the product prices through different websites.

No facility for showing current offers on products on various websites, as customers is unaware about which shopping website is having offers or which shopping site is having best offers.

3.2 Aims and Objective:

Aims:

- To develop an advance system where customer can compare the product and get the product in best price rate.
- To provide an easy and efficient way of finding product at best price rate.

Objectives:

- To provide easy and efficient online shopping by comparing various shopping sites.
- To develop a web-based application to improve the service for online customer in "ONLINE SHOPPING"

3.3 Proposed Plan:

Considering the fact that people today depend on man-made objects (clothes, electrics, electronics, and mechanic equipment), there is no surprise that the shopping industry is the biggest in the history of mankind. And how can't it be, when every single object on the planet is a potential new article for selling and buying? Because that is what shopping means after all: buying an object from someone who is selling it and since the moment in which **shopping has gone online**, the industry has gone even wilder, gaining more influence than ever before. Probably billions of people around the world make online shopping at any given moment, and each of them is on one of the millions of shopping websites that are available on the world-wide-web.

- Advancing technology has brought a lot of innovation and improvement to this sector and still there is scope for lot of advancement.
- Now-a-days we have seen so many online shopping websites and it is quite difficult for a customer to take decision whether he/she could buy the product from Amazon, Flipkart or any other site.
- We are in the verse of advance technology and here we are developing an advance online shopping system where customer can compare the product and get the product in best price rate.

Price comparison sites and comparison-shopping engines gives ecommerce traders a good opportunity to boost their sales, attract new customers and go ahead against their competitors. Even Shoppers often look for best deals and offers for a particular product which they are looking for. It is difficult to visit each and every website for comparing the deals or a price of a particular product. Hence this comparison-shopping site is proposed which will help ecommerce merchants as well as shoppers for collecting product information, including price list, from participating retailers and then it displays collective information on a single result page in response to a shopper's or ecommerce merchant's search query. In this way, shoppers can compare

prices, and service from multiple retailers on a single page and choose the merchant that offers the best overall value. Users need to open the website and search for a particular product, it will compare the prices from different websites it will also auto correct the product spelling mistake. This will make easy shopping with best deals as well as ecommerce merchants to know well about their competitors.

Modules:

- **Search Product:**

  User can search for the respective product for comparison. It will also auto correct the spelling mistake.

- **Price Compared:**

  User will get the price fetch from different e-com websites for comparison.

- **User Login**:

  User can login in using credentials.

- **Search Product**:

  User can search for the respective product for comparison. It will also auto correct the spelling mistake.

- **Price Compared**:

  User will get the price fetch from different e-com websites for comparison.

- **Add Wish list**:

  User can add products to wish list.

- **View/ Notify Changes**:

  User can see the price changes in products added in wish list, and also user will get SMS and Email notification.

Conclusion

- For a lot of people, shopping is the ultimate form of relaxation, while for others is a task of inconvenience. Even though the persons who love shopping usually prefer to do it the old-fashion way, by going from store to store until they find what they are looking for, nowadays, shopping has gone that extra mile by becoming online, which is something of a big help for both shopping lovers and haters.
- This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html, css, java, and database & web server.
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