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Online Shopping System with Stitching facility

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***Abstract*—**
Online shopping is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the internet using a web browser. Consumers find a product of interest by visiting the website of the retailer directly or by searching among alternative vendors using a shopping search engine, which displays the same product's availability and pricing at different e-retailers.

The Proposed web application would be attractive enough, have a professional look and user friendly. The online shopping is a web based application intended for online retailers. The main goal of this system is to make it interactive and its ease of use. It would make searching, viewing and selection of the product easier. The user can then view the complete specification of each product. The application also provides a drag and drop features, so that a user can add a product to shopping cart by dragging the items into the shopping cart. The Main aim of the project is to automate the tailoring sector which is manually maintained. After the automation this will provide better services such as fitting facility and also paperless environment, and quick search, data integrity and security.

General Terms

The proposed Apriori algorithm limits the number of candidate sets generated through pruning variable MAX which impose constraint on number of allowed item sets and its value is depend on current requirement of E-Commerce company or user of website comparator tool. Here we have also reduced number of scans over the database through other variable m which imposes constraints on considering only those transactions for scanning having frequent items from 2 to 4 only and finally the data structure array is used to reduce the number of comparisons.

Keywords—

Shopping process, E-Commerce and mining, Web mining, Website reorganization, Improved Mining, Consumer buying behaviour.

1. Introduction

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace. The objective of this project is to develop a general purpose e-commerce store where product like clothes can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online shopping for clothes.

Currently customers have to walk to the tailor shops to get their measurements taken for the tailoring of their garments. Their details are taken and kept on papers. Customers need to take some time out from their busy schedule and visit the tailor. This is time and costly. As the tailors work manually, the whole process tends to be slow. Customers too have no prior information on cost of netting their garments. So Proposed system is a system aimed to assist in management of tailoring activities within the industry. It will provide online services to customers such as: measurement submission to their tailors, check whether their garments are finished and also help proper keeping of records. The availability of right information, information safety, easy storage, access and retrieval will be ensured.

2. RELATED WORK

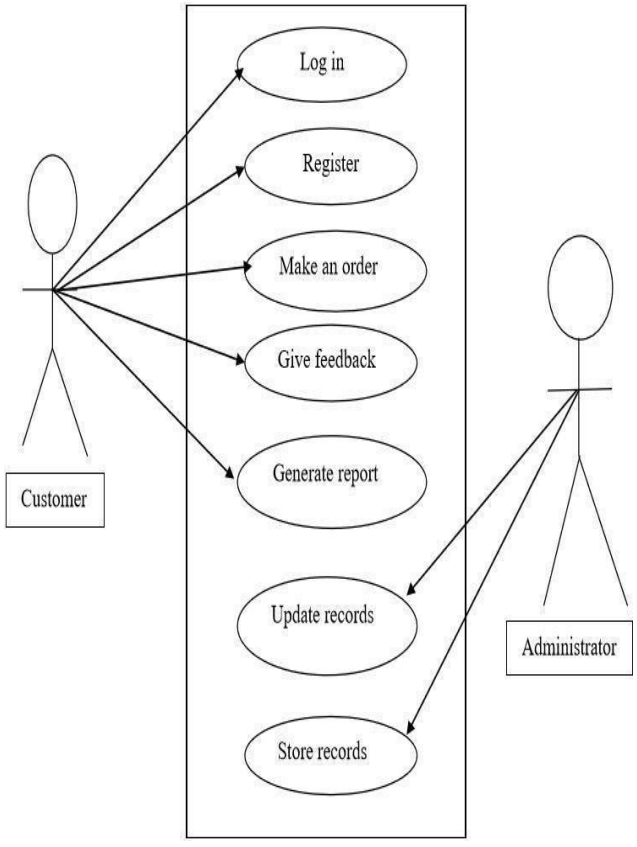
Tailors use traditional manual systems to book in their clients. The clients have to travel to location of the tailor shop to get their measurement taken. These measurements are written on paper or books. This system will solve all these problems and automate the tailor shops and enhance accessibility irrespective of geographical locations provided there is internet.

3. PROPOSED WORK

The proposed system will automate the current manual tailoring system and maintain a searchable customer, product database, maintain data security and user rights. Here system will enable customers to send their measurements to there

tailors for their clothes to be made. Also this will provide information about the cost, the fabric type, the urgency at which a customer wants the dress finished, the type of material to be used and quantity in terms of pairs needed. To compute the total cost depending on the selected fabric, type of material, quantity and duration and avails that information to the customer. This enable report generation: it is able give a report of finished the garments to the clients for collection and bookings made, administrator is able to view all the customers and their details, finished garments and all the booking made. To create a data bank for

easy access a retrieval of customer details, orders placed and the users who register to the system. The registration process for the customers is provided online by the system which will help to successfully submit their measurements. The system has inbuilt validation system to validate the entered data. The customer can login to the system to check on the status of the clothes for collection. The system will show the already completed garments for client to collect. The system also provides information about the cost of each garment the customer intents to get knit. The data will be store in the database for further reference or audit.



4. ALGORITHM

Algorithm: Apriori -IC Algorithm
Input: Minimum support, data is preprocessed from the minimum confidence
Output: Rules for frequent item sets
Constraints:
N=Total no. of transactions
MAX=maximum no. of items for frequent sets
S= Minimum support
FI [] = Item eligible for frequent set
Ti = Ith
Transaction

List [] = Data structure to store list of items that may be accepted as association rule
Repeat [] = Data structure to verify confidence constraints
C= Minimum confidence

```
For i =1 to N do
        For j =1 to MAX do
                If Ti.supp >=S then
                        FI[j]=Ti
                        J++
                End If
        End For (j)
End For (i)
For m =2 to 4 do
        For k=1 to j do
                For n =k+1 to j do
                        If m items repeated in FI[n] then
                                Repeat[m]++
                                List[x++]= Tk
                        End If
                End For (n)
        End For (k)
End For (m)
x=1
For i=1 to m do
        If Repeat[i] >= c then
                Accept List[x] as Rule
        End If
End For (i)
```

The proposed Apriori-IC algorithm limits the number of candidate sets generated through pruning variable MAX which impose constraint on number of allowed item sets and its value is depend on current requirement of Ecommerce company or user of website comparator tool. Here we have also reduced number of scans over the database through other variable m which imposes constraints on considering only those transactions for scanning having frequent items from 2 to 4 only and finally the data structure array is used to reduce the number of comparisons.

5. ADVANTAGES

1. E- Commerce has changed our life styles entirely because we do not have to spend time and money travelling to the market.
2. It is one of the cheapest means of doing business as it is e-commerce development.
3. This will ensure availability of right information, information safety, easy storage, access and retrieval.
4. This will eliminate all the manual interventions and increase the speed of the whole process.
5. It provides better services good keeping of records, data integrity, data security, quick search and also paperless environment.

6. CONCLUSION

The main reason behind the establishment of Online shopping system with stitching facility is to enable the customer and administrator in a convenient, fair and timely manner of interaction. Therefor the IT used by whoever uses the system should support the core objective of the system if it is to remain relevant. This may involve training of the staff on how to enter right and relevant data into system and management to keep updating the hardware and software requirement of the system. IT and computer system need to be kept being upgraded as more and more IT facilities software are introduced in today's IT market. The researcher acknowledges the fact that this system does not handle all staff the tailor shop have like the asset section and staff members in the tailor shop. The researcher therefore suggests that for further research into building a system that capture all fields as pertains the tailor shop.

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