An Integrated Management System for Online Shopping Portals

Zulaikha[1], E. Laxmi Lydia[2], K. Shankar[3], Gunardi[4], Apri Wahyudi[5]

[1]Universitas dr soetomo, Surabaya, Indonesia. E-mail: zulaikha@unitomo.ac.id
[2]Professor, Vignan's Institute of Information Technology(A), Department of Computer Science and Engineering, Visakhapatnam, Andhra Pradesh, India. E-mail: elaxmi2002@yahoo.com
[3]Department of Computer Applications, Alagappa University, India. E-mail: shankarcrypto@gmail.com
[4]Politeknik Piksi Ganesha, Bandung, Indonesia
[5]Universitas Negeri Jakarta, Indonesia. Email: apriwahyudistitpringsewu@gmail.com

Abstract

Presently days the way of life of the individuals is unique. People feel awkward and tedious for going swarmed markets. In this way, online Shopping is a help as it spares parcel of time. Online shopping is the procedure whereby buyers straightforwardly purchase services or goods from a vender progressively, without go-between services, over the web. Likewise with most online exercises, there are unmistakable tradeoffs in online shopping between cost savings, privacy, convenience, and choice. Presently Consumers are progressively receiving electronic channels for obtaining their day by day required items.

Keywords- online Shopping, consumers, services, electronic channels.

Introduction

Online shopping is a type of electronic trade which enables buyers to legitimately purchase service or goods from a dealer over the Internet utilizing an internet browser. Buyers discover a result of enthusiasm by visiting the site of the retailer straightforwardly or via looking among elective sellers utilizing a shopping web crawler, which shows a similar item's accessibility and estimating at various e-retailers. Starting at 2016, clients can shop internet utilizing a scope of various devices and computers, including smart phones, tablet computers, laptops and desktop computers.

Online shopping is encountering development more than ever particularly in developing nations. Today pretty much every netizens purchases things of his prerequisites on the web. According to reports there are several little and huge Ecommerce stores or online shopping stores are existing and many are being propelled regularly.

Practically everything accessible in the conventional market are accessible on the web. It can purchase products of the vegetables, grocery, apparel, fruits, stationery, electronic things like laptops, TV's, mobiles, child care things, accessories, bags, etc. A few locales have even empowered booking of bikes and cars online. It simply needs to present the subtleties and required records and the car will be conveyed at the doorstep.

Web based shopping is a kind of electronic exchange which empowers purchasers to honestly buy administration or products from a vendor over the Internet using a web program. Purchasers find an aftereffect of eagerness by visiting the webpage of the retailer clearly or by means of looking among elective venders using a shopping web crawler, which shows a comparative thing's availability and evaluating at different e-retailers.

Figure 1. online shopping

IMPORTANCE OF ONLINE SHOPPING

The researchers, said that clients can take enjoy online shopping for 24 hour out of every day. Customers can buy any products and ventures whenever at all over the place. Online shopping is easy to use contrast with in store shopping since customers can simply finish his prerequisites just with a tick of mouse without leaving their home. Online shopping has several advantages. They are as follows:
1. It can compare the actual price and advertising price

2. Cash back policy can use
3. The consumer time saving
4. Tracking of product available
5. With other retailers it can easily compare the prices
6. Anywhere and anytime the purchasing is possible
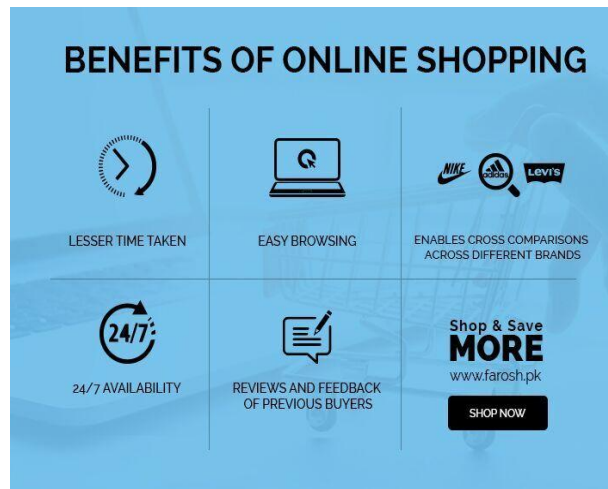7. purchasing from foreign market is also possible

Figure 2. Benefits of online shopping

Online Shopping Management System

Objective:
Searching for an online shopping webpage to deal with the things in the shop and furthermore assist clients with acquiring them online without visiting the shop physically..

System user
A. Shop Employees shop
B.Shop owner and manager (administrators)
C. Customers

Functional Requirements
From the shop for checking secured mechanism
About the new items in the shop update to customers

For customers it provide profile management and secure registration
To premier customers provide special discounts
In the shop at each category upload most purchased products
Customer can take the product so create a shopping cart
For internal affairs shop employees are responsible like updating order's status, processing orders, getting customer's delivery-time feedback, answering client's queries online and assure home delivery.
If a customer want to see any special product in the shop it can mail the shop
For Shop owners and Administrators graphs and Strategic data are created in each age group and category that are popular
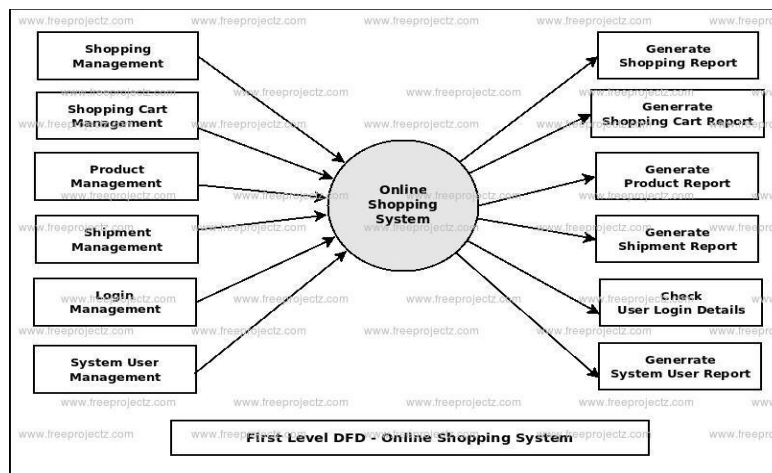To see the items in the category it can browse.

Figure 3. online shopping system

DATA MANAGEMENT IN ONLINE SHOPPING

Description of data
The database contain following data:
Orders: In the table stored the data of delivery information, ordered products and status.
Shopping: In this table whole information of product is stored
Users: On the basis of their role with a unique ID the admin and user information is stored in this table.

Objects of data
Orders: Product, Client, Date, Quantity, ID, Order Shipped, Price
Shopping: Image, Category Description, Product, ID, Cost, Product ID
User: Email, Password, Role, User Name, ID
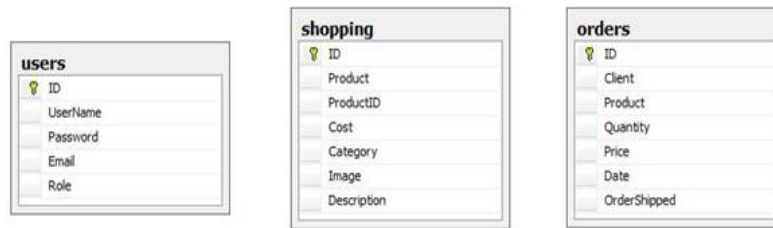Table Diagram of database

Figure 4. Database Table Diagram
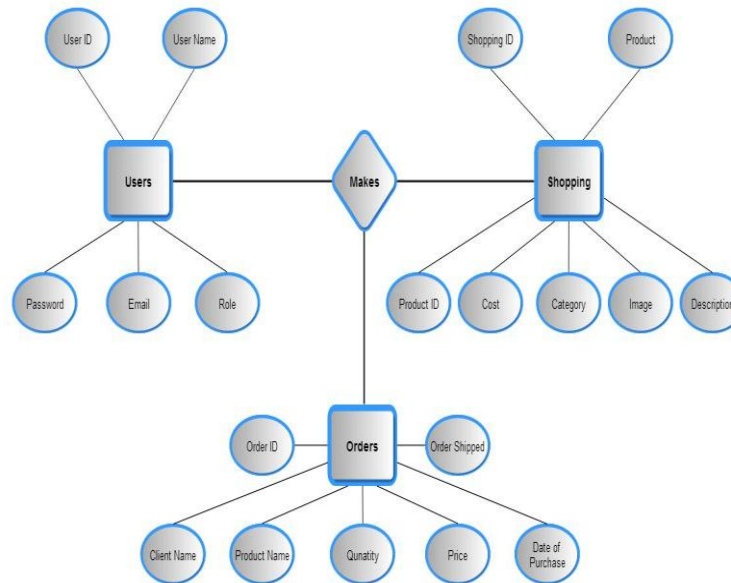
Relationships

Figure 5. Relationships Database

Online shopping growth key drives have been:
Availability of The range of more wider product available
It build the power to middle class families and increase the standard
Online categorized sites usages is increased
In traditional means of shopping overcome difficulty and due to lack of time and busy lifestyle
Expanding utilization of debit and credit cards combined with a developing youthful populace who invest critical energy in the web
Social systems sites likes twitter, Facebook are especially affecting in driving on the web retail in India. Numerous sellers are utilizing it as a solid instrument to get advertising and deals impact
Top drivers of online shopping development are quicker conveyance, Cash on Delivery office, limited rates, access to marked items and unconditional promise on flawed products Increasing 4G penetration and broadband Internet
Factors that have contributed to online shopping growth
In spreading the online shopping the factors that play a significant role are as follows:
Discounts and cheaper rate: As per the choice of the customer there is lot of prize and offers are available.
Huge options: As per the choice of the customer there I wider range of products are available
Saving of time: It is a option of time saving. With a simple click it can easily choose the item and save the time.
It provides a quick internet access by using better broadband services like 4G.
COD (Cash on Delivery): on the delivery of the product it can allow to pay

Return policies and Home delivery: from the consumer base within a certain time period return policies and quick delivery options are available.

RESEARCH OF SHOPPING ONLINE

Methodology.
On the basis of methodology of quantitative research the study was carried out. It take the interview of 183 person who do online shopping. On the basis of the size of the website http://www.surveysystem.com/sscalc. htmit calculate the required sample size. For calculation of the sample size the confidence interval of 95%, confidence width of 6% and population as all the people who have bought online in Lithuania were selected. The calculations showed that 183 people are a sufficient sample size for conducting a credible investigation.

Research results.
There are 56% of women and 44% of men in the survey.
As the most important factor of online shopping in the research it distinguished the more convenient and easy way of shopping and also look about lack of time, lower price, wider choice and ability to find a different product. The people who shopped online in the survey to distinguish it include the questionnaire. In Table 1 the result of survey is showing.
It is showing in the table 1 that between men and women choices there are some differences. Men are influenced by more convenient and faster shopping but women affected through price.

		Smaller price	I can find a different product	Lack of time	Greater variety of products	Easier and more convenient	Other
Overall	183	59.3	33.	42.9	39.	72.	4.4
Gender							
Man	102	51.	29.4	47.1	33.3	73.5	2.
Woman	80	70.	37.5	37.5	46.3	70.	7.5
Age							
18–24	22	54.5	40.9	36.4	54.5	68.2	4.5
25–34	86	59.3	36.	53.5	47.7	79.1	3.5
35 and more	74	60.8	27.	32.4	24.3	64.9	5.4
You are							
Enterpreneur	61	63.9	45.9	41.	52.5	70.5	6.6
Employee	100	57.	29.	46.	32.	74.	2.
Student	5	60.	0	20.	20.	60.	0
Unemployed	2	0	0	50.	0	50.	0
Other	14	64.3	21.4	35.7	42.9	71.4	14.3

Disadvantages of Online Shopping

Wait Time: For online shopping waiting tine is consider as a downstream. For getting the product in online shopping it have to wait for several days or even for weeks.

Shipping: some online seller provide free shipping for the products but many seller offer charges for the shipping. Yet many require meeting a base request cost to qualify or just offer this impetus at specific occasions of year. All in all, it ought to hope to pay an extra sending expense over the cost of the things that you request. Also, on the off chance that you conclude that you don't care for an item, it should pack it back up and take it to the mail station to return it

Privacy: When it shops on the web, it forgoes certain privacy rights to the online retailer. Online stores can follow the buys after some time to give more proposals of things it may get a kick out of the chance to purchase, send messages with deal data, and, every so often, offer contact data to different organizations..

Hands- One thing that online stores can't supplant is the experience of really observing and contacting the thing it is thinking about purchasing. For instance, garments shopping can be precarious on the web, since it can't take a stab at the garments before it purchase.

Conclusion

Presently days the way of life of the individuals is unique. People feel awkward and tedious for going swarmed markets. In this way, online Shopping is a help as it spares parcel of time. Online shopping is the procedure whereby buyers straightforwardly purchase services or goods from a vender progressively, without go-between services, over the web. Online shopping is a type of electronic trade which enables buyers to legitimately purchase service or goods from a dealer over the Internet utilizing an internet browser. Online shopping is encountering development more than ever particularly in developing nations. The researchers, said that clients can take enjoy online shopping for 24 hour out of every day. Customers can buy any products and ventures whenever at all over the place.

References

1. Sanjay Kumar (2015). "Online Shopping-A Literature Review". National Conference on Innovative Trends in Computer Science Engineering (ITCSE-2015).
2. Sidhartha Reddy Vatrapu (2014). "Design and Implementation of E-Commerce Site for Online Shopping".
3. Cao, Y., Huang, L., Li. Y., Jermsittiparsert, K., Ahmadi-Nezamabad, H., & Nojavan, S. 2020. "Optimal Scheduling of Electric Vehicles Aggregator under Market Price Uncertainty Using Robust Optimization Technique." International Journal of Electrical Power & Energy Systems 117: 105628.
4. Yu, D., Wang, Y., Liu, H., Jermsittiparsert, K., & Razmjooy, N. 2019. "System Identification of PEM Fuel Cells Using an Improved Elman Neural Network and a New Hybrid Optimization Algorithm." Energy Reports 5: 1365-1374.
5. Tian, M., Ebadi, A., Jermsittiparsert, K., Kadyrov, M., Ponomarev, A., Javanshir, N., & Nojavan, S. 2019. "Risk-Based Stochastic Scheduling of Energy Hub System in the Presence of Heating Network and Thermal Energy Management." Applied Thermal Engineering 159: 113825.
6. Yu, D., Wnag, J., Li, D., Jermsittiparsert, K., & Nojavan, S. 2019. "Risk-Averse Stochastic Operation of a Power System Integrated with Hydrogen Storage System and Wind Generation in the Presence of Demand Response Program." International Journal of Hydrogen Energy (In press), DOI: 10.1016/j.ijhydene.2019.09.222.
7. Jabarullah, N., Jermsittiparsert, K., Melnikov, P., Maseleno, A., Hosseinian, A., & Vessally, E. 2019. "Methods for the Direct Synthesis of Thioesters from Aldehydes: A Focus Review." Journal of Sulfur Chemistry (In press), DOI: 10.1080/17415993.2019.1658764.
8. Jiao, Y., Jermsittiparsert, K., Krasnopevtsev, A., Yousif, Q., & Salmani, M. 2019. "Interaction of Thermal Cycling and Electric Current on Reliability of Solder Joints in Different Solder Balls." Materials Research Express 6 (10): 106302.
9. Yu, D., Ebadi, A., Jermsittiparsert, K., Jabarullah, N., Vasiljeva, M., & Nojavan, S. 2019. "Risk-constrained Stochastic Optimization of a Concentrating Solar Power Plant." IEEE Transactions on Sustainable Energy (In press), DOI: 10.1109/TSTE.2019.2927735.
10. Jermsittiparsert, K., Sriyakul, T., Sutduean, J., & Singsa, A. 2019. "Determinants of Supply Chain Employees Safety Behaviours." Journal of Computational and Theoretical Nanoscience 16 (7): 2959-2966.
11. Sriyakul, T., Singsa, A., Sutduean, J., & Jermsittiparsert, K. 2019. "Effect of Cultural Traits, Leadership Styles and Commitment to Change on Supply Chain Operational Excellence." Journal of Computational and Theoretical Nanoscience 16 (7): 2967-2974.
12. Sutduean, J., Singsa, A., Sriyakul, T., & Jermsittiparsert, K. 2019. "Supply Chain Integration, Enterprise Resource Planning, and Organizational Performance: The Enterprise Resource Planning Implementation Approach." Journal of Computational and Theoretical Nanoscience 16 (7): 2975-2981.
13. Singsa, A., Sriyakul, T., Sutduean, J., & Jermsittiparsert, K. 2019. "Willingness of Supply Chain Employees to Support Disability Management at Workplace: A Case of Indonesian Supply Chain Companies." Journal of Computational and Theoretical Nanoscience 16 (7): 2982-2989.
14. Jermsittiparsert, K. & Chankoson, T. 2019. "Behavior of Tourism Industry under the Situation of Environmental Threats and Carbon Emission: Time Series Analysis from Thailand." International Journal of Energy Economics and Policy 9 (6): 366-372.
15. Romprasert, S. & Jermsittiparsert, K. 2019. "Energy Risk Management and Cost of Economic Production Biodiesel Project." International Journal of Energy Economics and Policy 9 (6): 349-357.
16. Kasayanond, A., Umam, R., & Jermsittiparsert, K. 2019. "Environmental Sustainability and its Growth in Malaysia by

Elaborating the Green Economy and Environmental Efficiency." International Journal of Energy Economics and Policy 9 (5): 465-473.

17. Jermsittiparsert, K, Sriyakul, T., & Rodoonsong, S. 2013. "Power(lessness) of the State in the Globalization Era: Empirical Proposals on Determination of Domestic Paddy Price in Thailand." Asian Social Science 9 (17): 218-225.

18. Jermsittiparsert, K, Sriyakul, T., & Pamornmast, C. 2014. "Minimum Wage and Country's Economic Competitiveness: An Empirical Discourse Analysis." The Social Sciences 9 (4): 244-250.

19. Jermsittiparsert, K., Pamornmast, C., & Sriyakul, T. 2014. "An Empirical Discourse Analysis on Correlations between Exchange Rate and Industrial Product Export." International Business Management 8 (5): 295-300.

20. Maseleno, A., Huda, M., Jasmi, K. A., Basiron, B., Mustari, I., Don, A. G., & bin Ahmad, R. (2019). Hau-Kashyap approach for student's level of expertise. *Egyptian Informatics Journal*, *20*(1), 27-32.

21. Huda, M., Maseleno, A., Teh, K. S. M., Don, A. G., Basiron, B., Jasmi, K. A., ... & Ahmad, R. (2018). Understanding Modern Learning Environment (MLE) in Big Data Era. *International Journal of Emerging Technologies in Learning*, *13*(5).

22. Huda, M., Maseleno, A., Atmotiyoso, P., Siregar, M., Ahmad, R., Jasmi, K., & Muhamad, N. (2018). Big data emerging technology: insights into innovative environment for online learning resources. *International Journal of Emerging Technologies in Learning (iJET)*, *13*(1), 23-36.

23. Alipour, E., Alimohammady, F., Yumashev, A., & Maseleno, A. (2020). Fullerene C60 containing porphyrin-like metal center as drug delivery system for ibuprofen drug. *Journal of Molecular Modeling*, *26*(1), 7.

24. Namdarian, A., Tabrizi, A. G., Maseleno, A., Mohammadi, A., & Moosavifard, S. E. (2018). One step synthesis of rGO-Ni3S2 nano-cubes composite for high-performance supercapacitor electrodes. *International Journal of Hydrogen Energy*, *43*(37), 17780-17787.

25. Jermsittiparsert, K., Sriyakul, T., Pamornmast, C., Rodboonsong, S., Boonprong, W., Sangperm, N., Pakvichai, V., Vipaporn, T., & Maneechote, K. 2016. "A Comparative Study of the Administration of Primary Education between the Provincial Administration Organisation and the Office of the Basic Education Commission in Thailand." The Social Sciences 11 (21): 5104-5110.

26. Jermsittiparsert, K., Trimek, J., & Vivatthanaporn, A. 2015. "Fear of Crime among People in Muang-Ake, Lak-Hok, Muang, Pathumthani." The Social Sciences 10 (1): 24-30.

27. Jermsittiparsert, K. & Akahat, N. 2016. "Fear of Crime among Students of Kalasin Rajabhat University." Research Journal of Applied Sciences 11 (2): 54-61.

28. Aishwarya Goyal (2015). "Rising Trends of Online Shopping In India". Vol. 6. Issue: 2.

29. Živilė Baubonienė & Gintarė Gulevičiūtė (2015). "E-Commerce Factors Influencing Consumers' Online Shopping Decision. Socialinės Technologijos Social Technologies". vol. 5, issue.1, pp. 74–81.

30. Online Shopping. https://ils.unc.edu/cws/Handouts/Online%20Shopping/Online-Shopping.pdf

31. Ibatova, A. Z., Sitdikov, F. F., & Klychova, G. S. (2018). Reporting in the area of sustainable development with information technology application. Management Science Letters, 8(7), 785-794. doi:10.5267/j.msl.2018.5.008

32. Akhmetshin, E. M., Ilyasov, R. H., Sverdlikova, E. A., Tagibova, A. A., Tolmachev, A. V., & Yumashev, A. V. (2018). Promotion in emerging markets. European Research Studies Journal, 21(Special Issue 2), 652-665.

33. Safiullin, M. R., & Akhmetshin, E. M. (2019). Digital transformation of a university as a factor of ensuring its competitiveness. International Journal of Engineering and Advanced Technology, 9(1), 7387-7390. doi:10.35940/ijeat.A3097.109119