

E-Commerce Portal: Grocery Delivery

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ABSTRACT

ShopWala is an E-commerce portal for purchasing groceries online. The main motive behind making such portal is to reduce the spread of covid-19 virus in the State .This E-commerce websites helps to control the mass gatherings at supermarkets , Using these websites, customers can buy goods or products online just by visiting the website and ordering the item online by making payments online. This E-commerce portal is open 24*7*365 so that customers can purchase the products any time according to their requierments. The proposed work will helps in building a website to buy, sell products or goods online using internet connection. The purchasing of goods online, user can choose different products based on categories, online payments, delivery services and hence covering the disadvantages of the existing system and making the buying easier and helping the vendors to reach wider market. In existing system of buying goods has several disadvantages. It requires lots of time to travel to the particular shop to buy the goods.

Keywords: E-commerce, Products, Payments, Delivery, Customer.

I. Introduction

What is ShopWala?

Well ShopWala is an E-commerce portal for grocery products, Ecommerce is an umbrella term that covers everything there is to do with buying or selling online, it describes the act of performing business via the internet. Technology Used in the project Online E-Commerce Portal are HTML, CSS, JavaScript, Python, MySQL. A Home Page with good UI, Home Page will contain an animated slider for images banner, About us page will be available which will describe about the project, Contact us page will be available in the project. For the best shopping experience for online shoppers, the e-commerce website needs to be easy to use. The interface should not be complicated at all. When we build an online grocery website, there are certain number of things that are needed to be kept in mind. The online grocery website must be responsive. That has always been our topmost priority and this is a necessity for every E-commerce website as well. This is why we always make sure that our sites are as functional on smartphones and tablets as they are on the desktop. What impresses our customers is that the websites E-commerce website that we have made is fast loading. It is also one of our topmost priorities that the loading time of the website should be as minimum as possible. Online grocery websites which we create just take split of seconds to load. This means that whatever one has to see or open from the categories, would not consume much time. This is one of the most important things that a customers expect and we give them a time-saving website in addition to this we have keep the best and relevant pictures for the online grocery website a Customers always need to see the pictures properly with the price tags and other important related things. These things have to be accurate when it comes to an online grocery website, pictures are not baited but are an essential part of the shopping which is needed for the smooth shopping experience. Last but not least, the thing that irritates the most to online customers is when they are unable to check out and pay properly. In the world of E-commerce website building and online grocery website, we guarantee that the checkout process we construct for the sites is simple. We keep it easy. If online customers see even a slight problem in checkout or online payment, the just leave the site and switch to other sites. To avoid this for our site, we make sure that customers do not encounter a problem in this realm.

II. Objective

- To explain the role of the internet in creating relationships between Producer and consumer (B2C) as well as B2B.
- We are mainly focused on Trade and our aim will directly benefit Retailers as well as Consumers.
- You can buy from your nearest shop. There are no borders in the online world (at least not yet).
- The time investment is much smaller. You can browse several sites and options within minutes without having to drive from place to place.
- An ever-increasing trend that more and more shops will allow for free returns should a product not fit properly or meet the standards they claimed online
- You can often find products at cheaper prices than you would by visiting the traditional stores because websites don't require hundreds of sales personnel, etc.
- Product presentations come with immersive experience like image
- A powerful e-commerce platform, Enhance your competitiveness

III. Development Tools

- HTML.
- CSS
- JavaScript
- Python
- MySQL
- Django
- Bootstrap Framework to make the web page responsive
- Web Browser: Mozilla Firefox, Google Chrome, Opera, Safari, IE8
- Visual Studio Code

IV. System Requirement

On client side we required:

- Operating system (Windows, Linux, Mac)
- Web Browser (Mozilla Firefox, Google Chrome, Opera, Safari, IE8)

On server side we required:

- My SQL

V. Methodology

The technology used in the project Online E-Commerce Portal We have developed this project using the below technology

For Front-End we have use the following:

- HTML5: The structuring, presenting the user interface has been developed using HTML5 and the other modules of all the Page layout has been designed in HTML5.
- CSS3: We have use CSS3 for all the designing work and made the pages look more interactive.
- JavaScript: To improve the experience of all the users we have used JavaScript and the validation task and animations works also has been developed by JavaScript.

For Back-End we have used the following:

- Python: The business logic has been implemented in Python.
- MySQL: MySQL is an open source database and it has been used as database for the project.
- Django: Django is an open source framework based on python so the Project has been developed over the Django Framework which enables rapid development of secure and maintainable website.

Static Pages and other sections:

These static pages will be available in project Online E-Commerce Portal will have the followings:

- A Home Page with good User Interface which will be interactive with user
- The Home Page will contain an animated slider for images banners
- There will be a Sign in and Create an Account section.
- In the All Products section we will have all the Grocery Products
- Customer can buy the Products from there by making payments.
- About us page will be available which will describe about the project
- Contact us page will be available in the project

Supported Operating System for the project

We can configure this project on following operating systems:

- Windows: This project can be easily configured on the windows operating system.
- Linux: One can easily run this project also on all versions of Linux operating system
- Mac: One can also easily configure this project on Mac operating system.

Modules used are:

1. Admin Login: Admin need to login by providing the login credentials to access the below given admin modules.

a. Product Entry:

- i. Admin can enter details about new medicine products details.

b. View Order:

- i. Admin can view details about the order placed by the user.

c. View Users Details:

- i. Admin can view all the registered user's details.

2. User Login/Registration: User can register on the system and get his online account on site.

a. View Products:

- i. The products are arranged and can be viewed in categories.

b. Add to Cart:

- i. Users can add multiple products to cart.

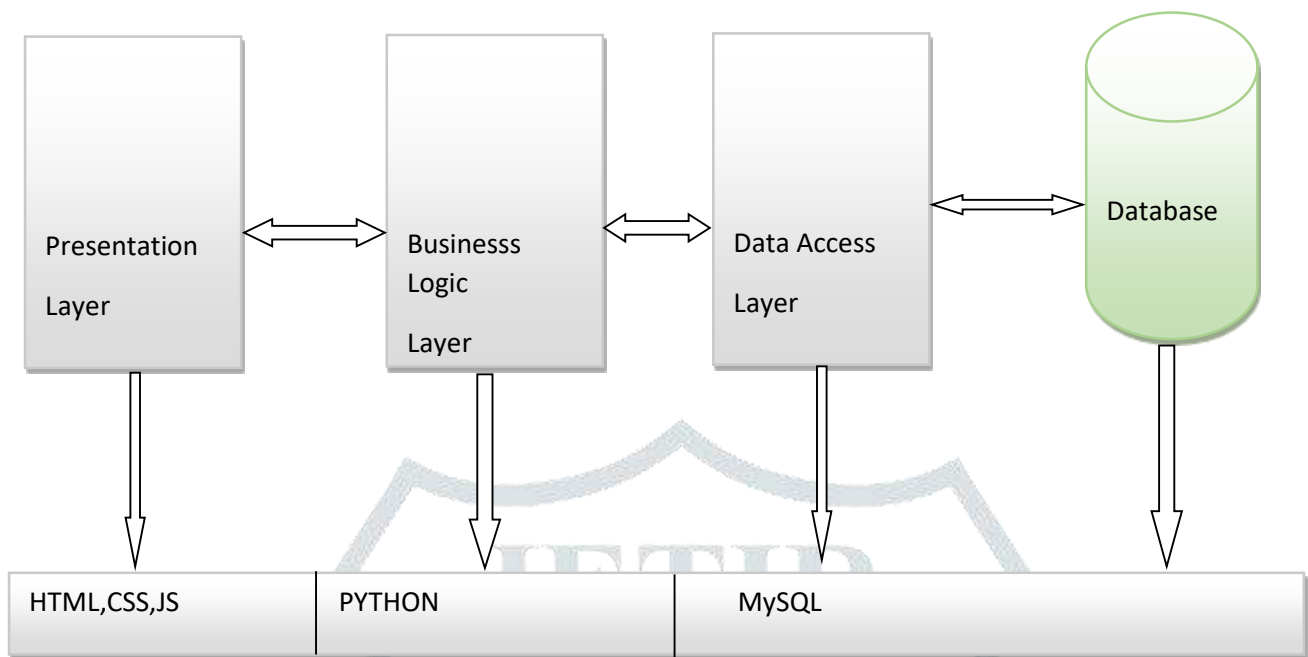
c. Pay using Card:

- i. After total bill is calculated user can pay via credit card online.

d. View Order:

- i. User can view details about the order placed.

ARCHITECTURE OF ECOMMERCE WEBSITE



VI. Advantages

- Accessible at any locations
- 24*7 availability
- Save time & money
- Increase business sale
- Reduce infrastructure cost
- Immediately processing of Online transactions
- Online business popularity

VII. Future scope

- This will enhance the growth in the E-sale of Grocery in every part of the country.
- With the rise of VoLTE mobile internet users and a large number of smartphone users from rural area will be able to use it.
- Due to lockdown imposed in many parts of the country this portal will help maximum customers to get their daily needs
- This website will create jobs in many sectors such as deliver partners, product service, product development
- It will have huge potential growth on sales and promotions

VIII. Conclusion

In this Project, we have analysed the challenges in e-commerce grocery business. The overall purpose of this project was to develop an E-commerce grocery products portal so that everyone can get their daily needs items easily without visiting the shops. It includes the latest technology such as HTML5, CSS3, Python3.9, ES9. This will help in creating a lot of job opportunities and thus it helps the growth in Indian E-commerce.

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X. References

- [1] Rule-Based Automated Price Negotiation: Overview and Experiment July 2006 Lecture Notes in Computer Science 4029:1050-1059, DOI: [10.1007/11785231_110](https://doi.org/10.1007/11785231_110), Source: DBLP, Conference: Artificial Intelligence and Soft Computing - ICAISC 2006, 8th International Conference, Zakopane, Poland, June 25-29, 2006, Proceedings, **Authors:** Costin Badica (University of Craiova), Maria Ganzha (Warsaw University of Technology), Marcin Paprzycki (Instytut Badań Systemowych Polskiej Akademii Nauk)
- [2] E – Commerce in India: An Analysis of Present Status, Challenges and Opportunities Dr. Naveen Kumar, Assistant Professor in Commerce, Government Degree College, Panarsa, Mandi, Himachal Pradesh, India, Vol.-V, Issue -2(3), April 2018
- [3] Dasgupta, Prithviraj. & Sengupta, Kasturi. (2002). E-Commerce in Indian Insurance Industry. Electronic Commerce Research, Vol. 2, 43-60.
- [4] Elizabeth, Goldsmith. & McGregor, L.T. (2000). E-commerce: consumer protection Issues and implications for research and education. Journal of Consumer Studies and Home Economics, Vol. 24, 124-127.
- [5] H.Ramchandani, Pooja. (2016). Growth of E-Commerce in India and its impact on Indian economy. Abhinav International Monthly Referred Journal of Research in Management and Technology, Vol. 5, 33-36.
- [6] Madhukar Sarode, Rajendra. (2015). Future of E-Commerce in India Challenges and Opportunities. International Journal of Applied Research, Vol. I (12), 646-650.
- [7] Mitra, Abhijit. (2013). E-Commerce in India- A Review. International Journal of Marketing, Financial Services and Management Research, Vol. 2, 126-131.
- [8] Raghunath, Alka. & Panga, Murlidhar. (2013). Problem and Prospects of E-Commerce. International Journal of Research and Development- A Management Review, Vol. 2, 59-66

- [9] Saxena, Pallavi. (2015). E-Commerce and its impact on Indian society. *International Journal of Management and Computer Innovations*, Vol. 3, 520-522
- [10] Statista. (2017). Leading E-Retailers in India in 2015. Available at <https://www.statista.com/statistics/297355/leading-e-retailers-in-india-ranked-by-annual-web-ecommerce-sales/> (January 20, 2017)
- [11] Statista. (2017). E-Commerce Sales in Billion US Dollars (2015-2021). Available at <https://www.statista.com/statistics/289770/india-retail-e-commerce-sales/> (January 20, 2017).
- [12] Khan, M. S. and Mahapatra, S. S. (2009). Service quality evaluation in internet banking: An empirical study in India. *Int. J. Indian Culture and Business Management*, 2, 30-46. doi: 10.1.1.455.7575&rep=rep1&type=pdf
- [13] Nanekaran, Y.A (2013). An introduction to electronic commerce. *International journal of scientific & technology research*, 2(4). Retrieved from <http://www.ijstr.org/final-print/apr2013/An-Introduction-To-Electronic-Commerce.pdf>
- [14] Szymanski, David M and Hise, Richard T (2000). Esatisfaction: An initial examination. *Journal of retailing*, 76 (3), 309-322. doi: 10.1016/S0022-4359(00)00035-X
- [15] Ohidujjaman, Hasan, M. & Huda, M.N. (2013). Ecommerce Challenges, Solutions and Effectiveness Perspective Bangladesh. *International Journal of Computer Applications*, 70(9),9-17. Retrieved from <http://icdst.org/pdfs/files/5f540f8a517ec822aaba2a d7869dcdec.pdf>
- [16] Hasan, A.H.M., Saidul, Baten, M.A., Kamil, A.A & Parveen, S. (2010). Adoption of Ebanking in Bangladesh: An exploratory study. *African Journal of Business Management*, Vol. 4(13), 2718-2727.
- [17] Williams, ART, Bertsch, B, Wiele, AV, Iwaarden, JDV & Dale, BG, (2006). Self-Assessment against Business Excellence Models: A Critique and Perspective. *Total Quality Management and Business Excellence*, 17 (10), 1287-1300. doi: 10.1080/14783360600753737
- [18] Brown, M., Pope, N. & Voges, K., 2, (2003). Buying or browsing?: An exploration of shopping orientations and online purchase intention. *European Journal of Marketing*, 37(11/12), 1666-84. doi:10.1108/03090560310495401

