

ONLINE GROCERY DELIVERY SYSTEM



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Abstract

Online shopping had been booming around the world since its emergence. It was primarily aimed at selling software's, videos, audios, books in PDF format, etc. But later it was opted to sell even physical products like personal and home utilities.

Some of the online stores with wide reputation are Amazon, E-bay, click bank, commission junction, etc. But these are limited to few developed countries only. But with the change in habit and economy online shopping has become popular even in the developing countries.

Online shopping in India is becoming very famous now-a-days. Most of the people are now familiar with the use of internet and it has tremendously increased the prospect of online shopping in India. Moreover, with the innovation of smart gadgets, instant communication devices etc., buyers can navigate around websites & web stores anytime.

People prefers online shopping because they can buy products from different brands and companies which are otherwise not easily available in their home countries. These virtual markets offer huge variety and diversity. It allows the buyers to be updated with the latest styles and trends.

However, online shopping is not very comfortable & convenient for all. People may find it risky to deal with an unknown vendor. Products may look attractive online but may not be the same in reality.

Introduction

Online shopping is the process whereby consumers directly buy goods or services from a seller in real-time, without an intermediary service, over the Internet. It is a form of electronic commerce. An online shop, e-shop, e-store, online store, or virtual store evokes the physical analogy of buying products or services at a bricks-and-mortar retailer or in a shopping centre. The process is called **Business - to - Consumer (B2C)** online shopping.

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Online shopping in India is becoming very famous now-a-days. Most of the people are now familiar with the use of internet and it has tremendously increased the prospect of online shopping in India. Moreover, with the innovation of smart gadgets, instant communication devices etc., buyers can navigate around websites & web stores anytime.

Aim of the Project

Project Overview: The online grocery delivery system project needs to create the shopping cart system to organize the products record and the other information about the customers. How customers can buy products from website can be recognized from their username and password.

Scope: Online shopping is rising day by day in India. Because India is the country where computer and mobile users are increasing day by day so as the online shopping trends are also increasing. This project covers the online selling of goods, groceries and fashion products etc. The project shows the product category and then product details. From the product details, the product can be added to cart and can be bought.

The project Online Grocery Delivery System has been developed on **HTML, PHP, CSS, Java Script, JQuery and My SQL**.

An online shopping store which will allow formal advertise and sell everyday goods and groceries on the internet. The objective of this project is to create an e-commerce web portal with a content management system which would allow product information to be updated securely.

The web portal will have an online interface in the form of an e-commerce website that will allow users to buy goods from the website. There are two types of users available in the project. First one is Customer and second one is Website Admin. Customers have limited access right to access the system while the admin users have full control over the system.

We have used **PHP** for **business logic**, **MySQL** as a **database**, **HTML** for **structure designing**, **CSS** for **web page formatting**, **Java Script** for **form validation** and **JQuery** for **website animation**.

Hardware & Software Requirements

Hardware Requirements:

Processor : Intel(R) Core™ i3-3217U CPU @ 2.5GHz, 2701 MHz, 2 Core(s), 4 Logical Processor(s) (Minimum)

Standard Memory : 4 GB DDR4 RAM

Network Controller : Intel® Dual Band Wireless- AC 3165

Secondary Storage : SATA Hard Disk (1TB)

Optical Drive Type : Optional 12.7mm DVD-ROM/RW Drive

Software Requirements:

Operating System : Windows 8 or higher version will be used for project platform.

Front – End Tool : HTML, CSS, JavaScript, Jquery, Bootstrap

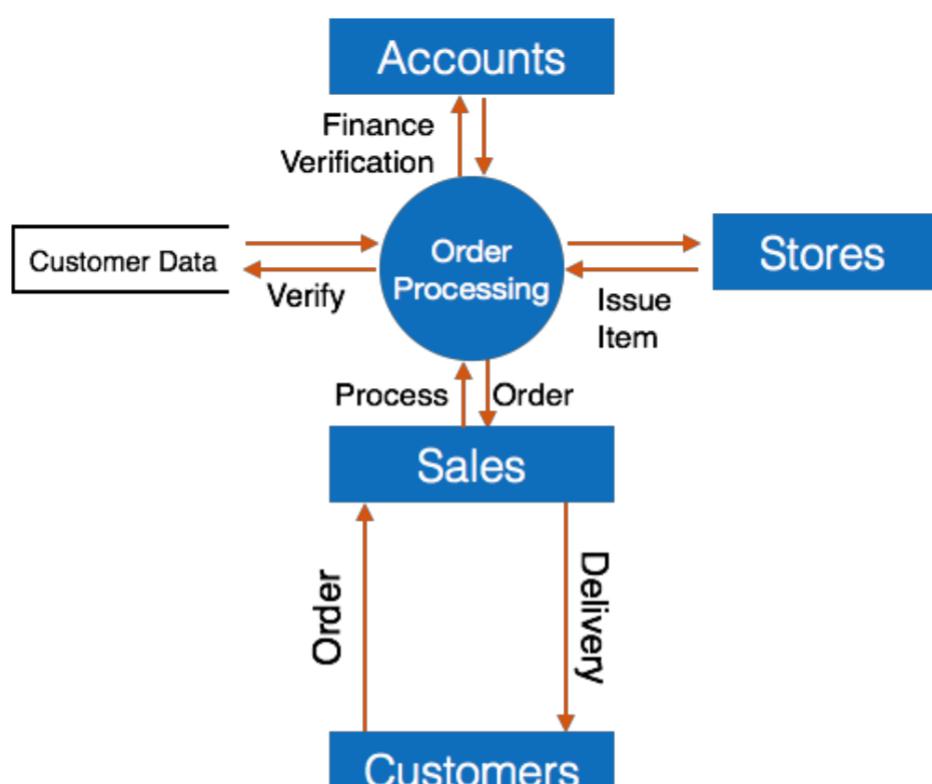
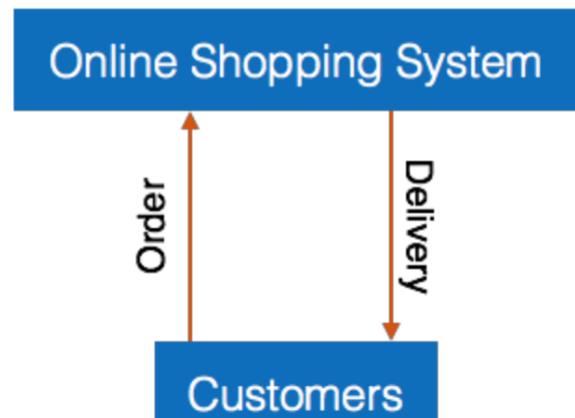
Back – End Tool : PHP, XAMPP local Server, My SQL

Editing Tool : Notepad ++ / Adobe Dreamweaver

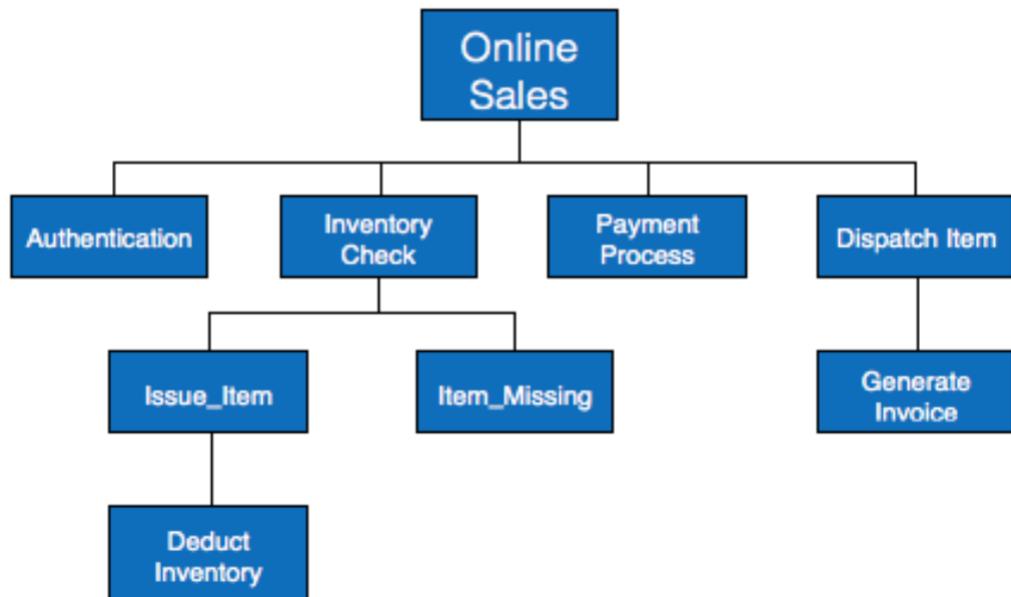
Database : My SQL and Xampp /Wampp local server

System Overview : Google Chrome Browser

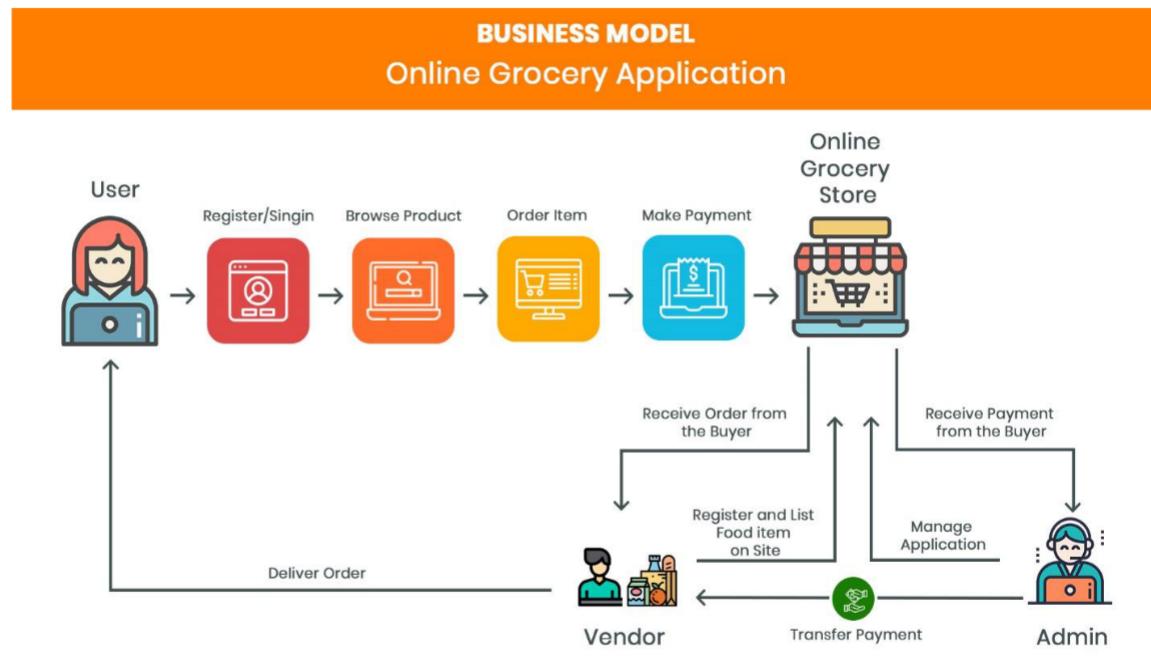
DFD Diagram



Hierarchical Input Process Output (HIPO) Model



Activity Diagram for Online Grocery Delivery System

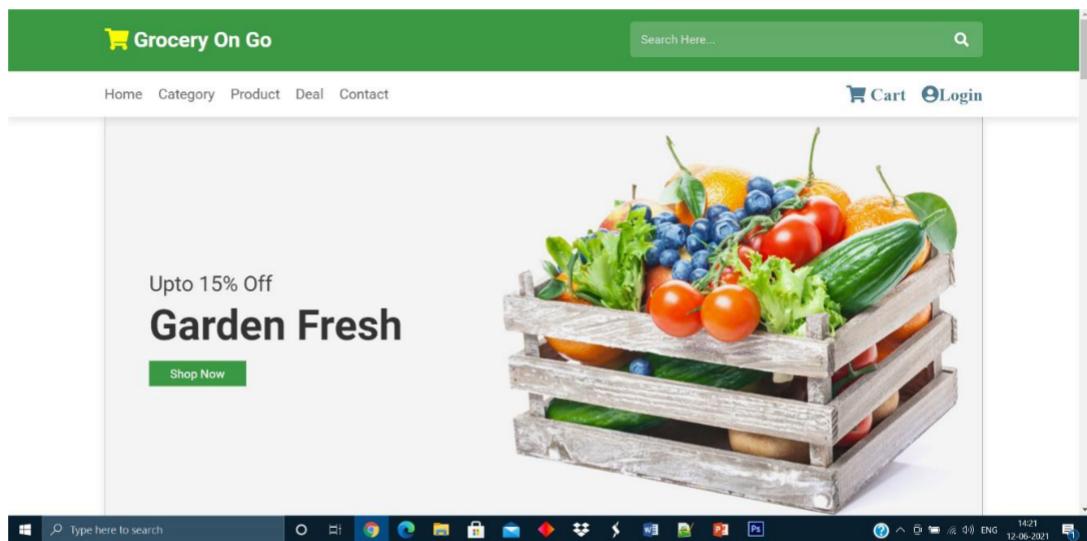


Project Execution

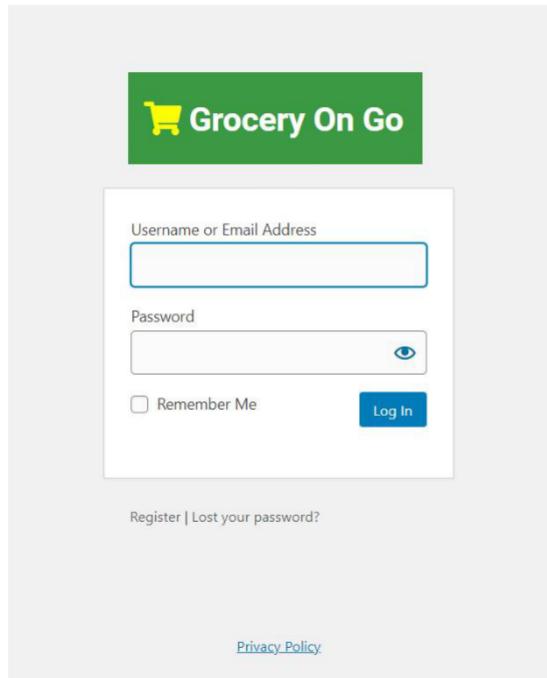
1. Our Proposed System :



2. Loading of the website:



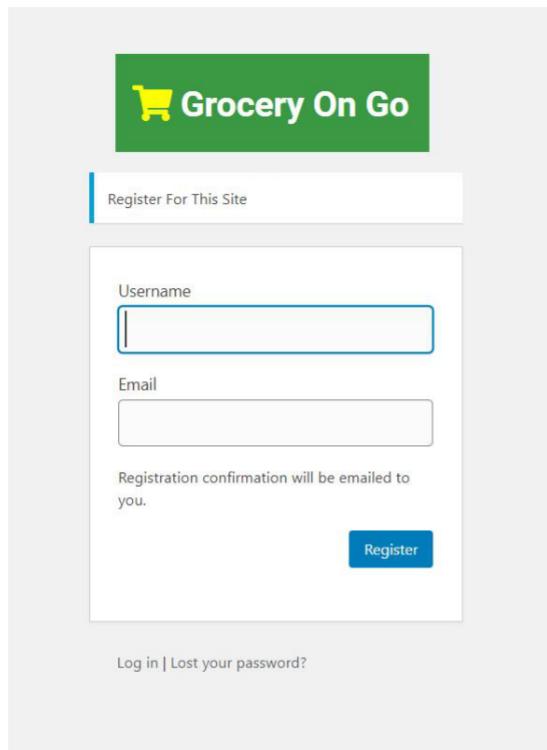
3. Login Section



The login page features a green header with the "Grocery On Go" logo. Below the header is a white login form. The form includes fields for "Username or Email Address" and "Password", both with placeholder text. There is a "Remember Me" checkbox and a "Log In" button. Below the form are links for "Register" and "Lost your password?". At the bottom of the page is a link for "Privacy Policy".

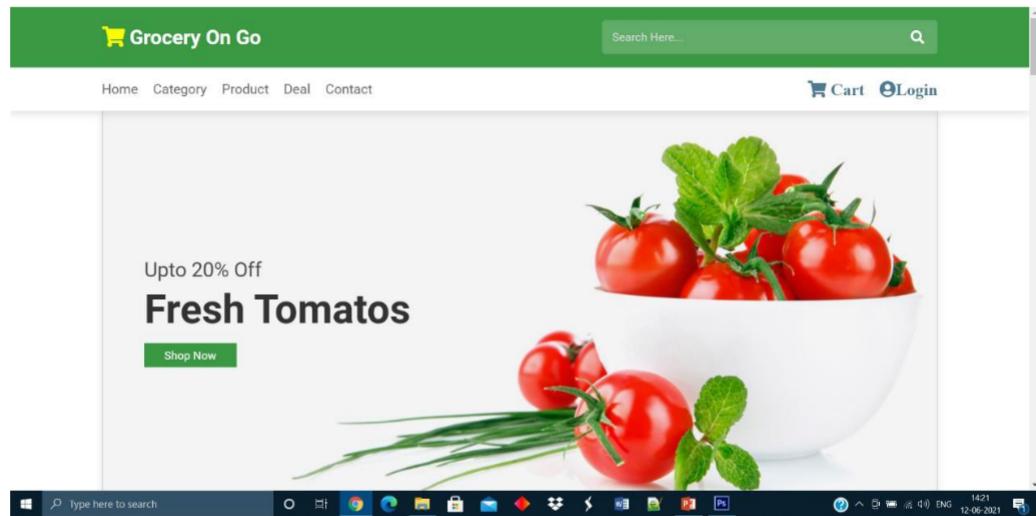
[Privacy Policy](#)

4. Registration/Signup Section

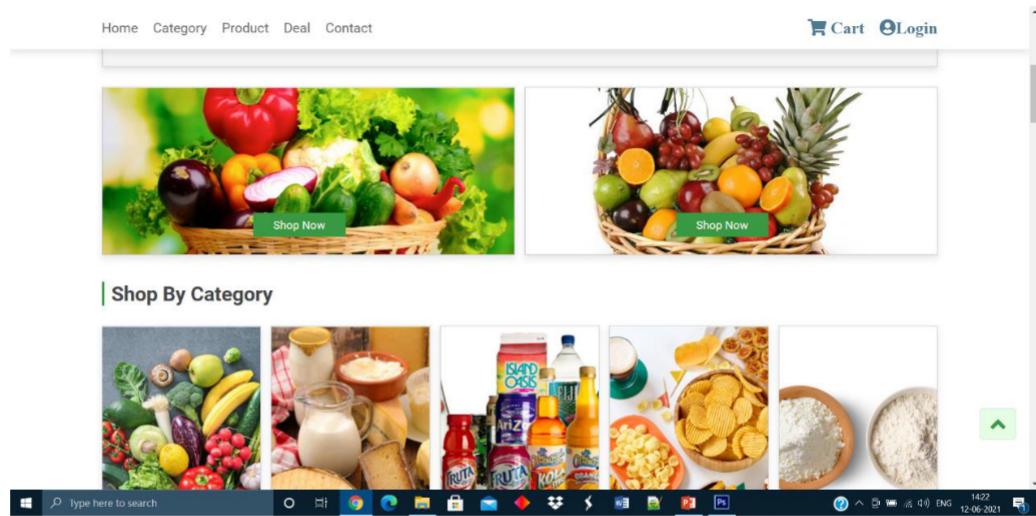


The registration page features a green header with the "Grocery On Go" logo. Below the header is a white registration form. The form includes fields for "Username" and "Email". A note states that "Registration confirmation will be emailed to you." and contains a "Register" button. Below the form are links for "Log in" and "Lost your password?".

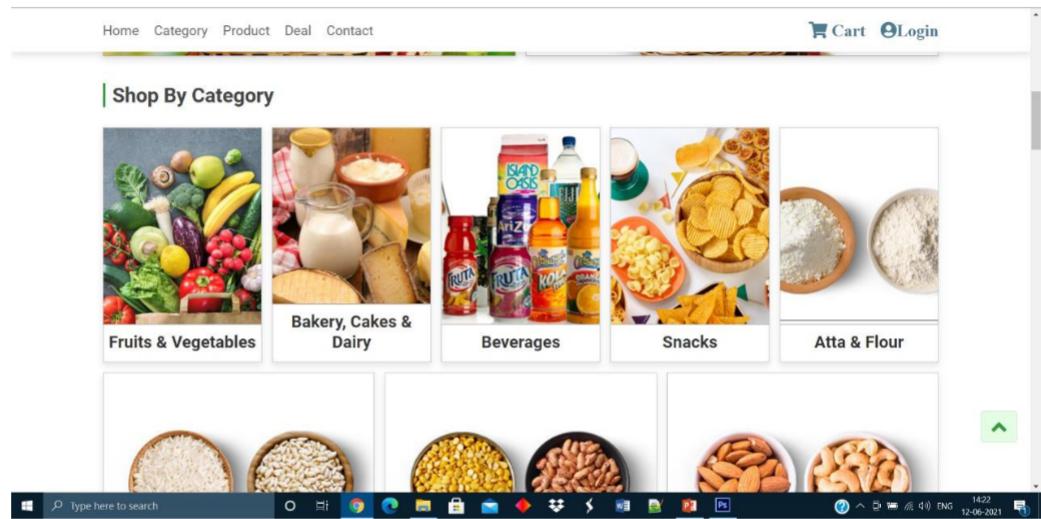
5. Showing Different offers on top



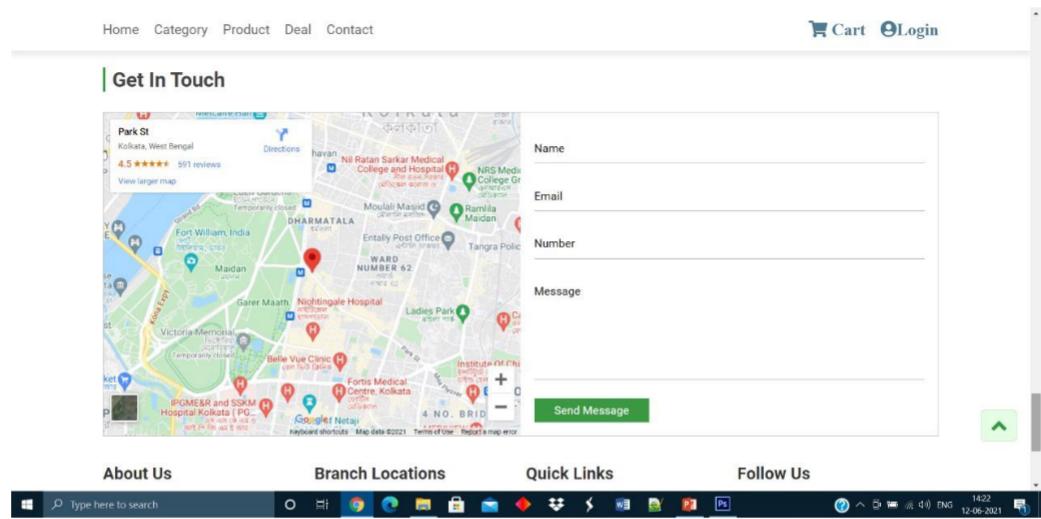
6. Instant reactive links for buying Vegetable and Fruits



7. Shop By Category Section



8. Contact Us Section



9. About Us Section

About Us

Convenience At Its Best: With 30,000+ Products In Store, Grocery-On-Go Offers You The Convenience Of Ordering Online And Getting All Your Products Delivered Right At Your doorstep In A Maximum Of 3 Hours. Get All Your Online Grocery Shopping Done In A Matter Of Minutes.

Branch Locations

Kolkata
Mumbai
Noida
Bengaluru

Quick Links

About Us
Privacy Policy
Terms And Conditions
Contact

Follow Us

Facebook
Twitter
Instagram
LinkedIn

Payment Options

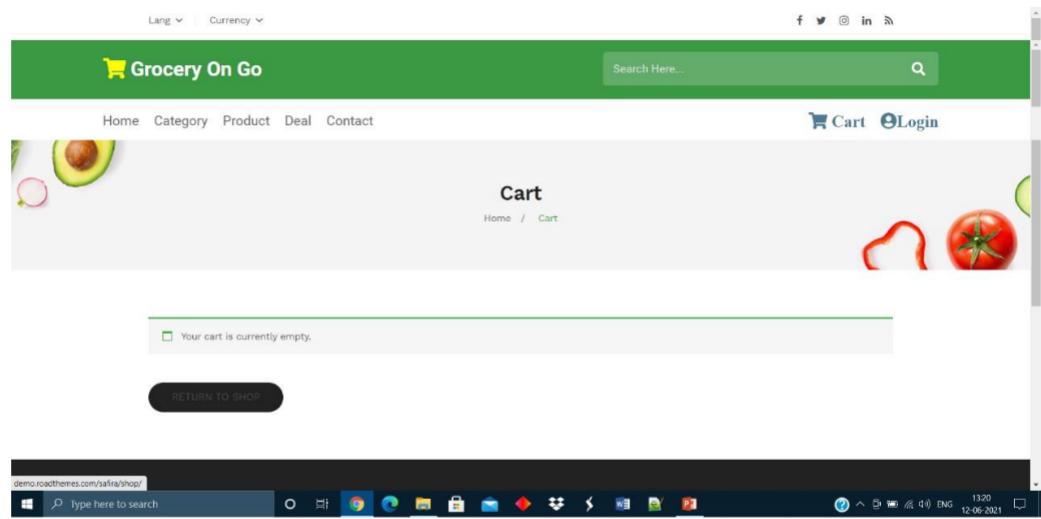
Created By Team | All Rights Reserved!



10. View Cart Section

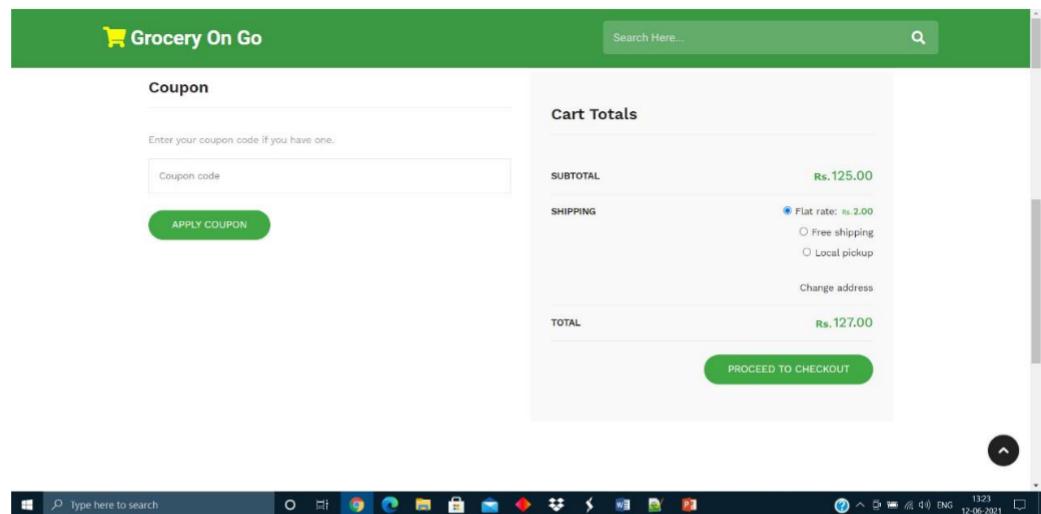
	Apple Gourd - 1 Kg	
	1 x Rs.65.00	
	Bottol Gaurd (Lauki)	
	1 x Rs.60.00	
Subtotal:		Rs.125.00
		
		

11. Cart Section



The screenshot shows the 'Grocery On Go' website's cart page. The header features a green bar with the logo and navigation links: Lang, Currency, Home, Category, Product, Deal, Contact, Cart, and Login. The main content area is titled 'Cart' and shows a message: 'Your cart is currently empty.' Below this is a 'RETURN TO SHOP' button. The page is styled with a light gray background and some decorative food images (avocado, tomato, red pepper) on the sides. The browser's address bar shows 'demo.roadthemes.com/safra/shop/' and the taskbar indicates it's 12:00 on 12-06-2021.

12. Proceed to Checkout

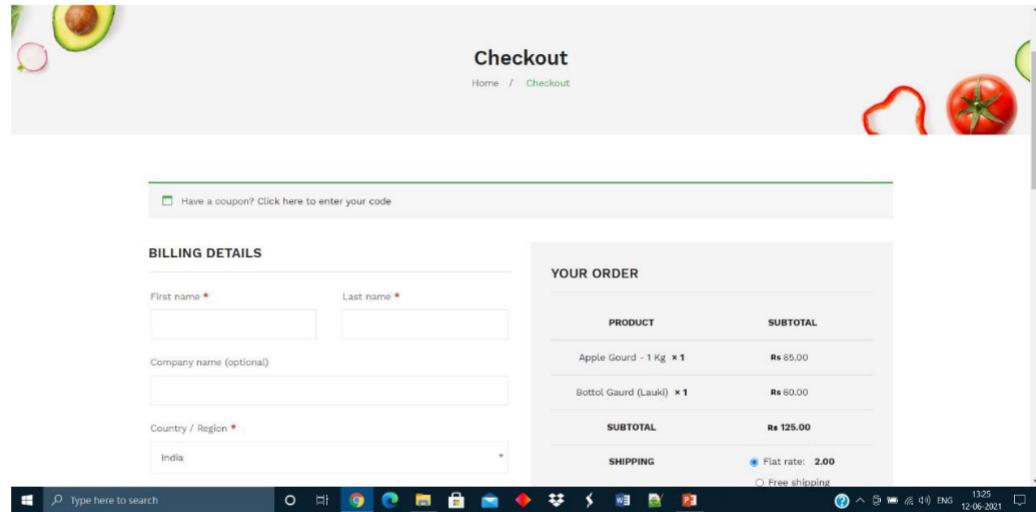


The screenshot shows the 'Grocery On Go' website's cart totals page. It includes a 'Coupon' section with a text input for a coupon code and a 'APPLY COUPON' button. The 'Cart Totals' section displays the following information:

Subtotal	Rs. 125.00
Shipping	<input checked="" type="radio"/> Flat rate: Rs. 2.00 <input type="radio"/> Free shipping <input type="radio"/> Local pickup
Total	Rs. 127.00

Below the totals is a 'PROCEED TO CHECKOUT' button. The browser's address bar shows 'demo.roadthemes.com/safra/shop/' and the taskbar indicates it's 12:03 on 12-06-2021.

13. Billing Details (1)

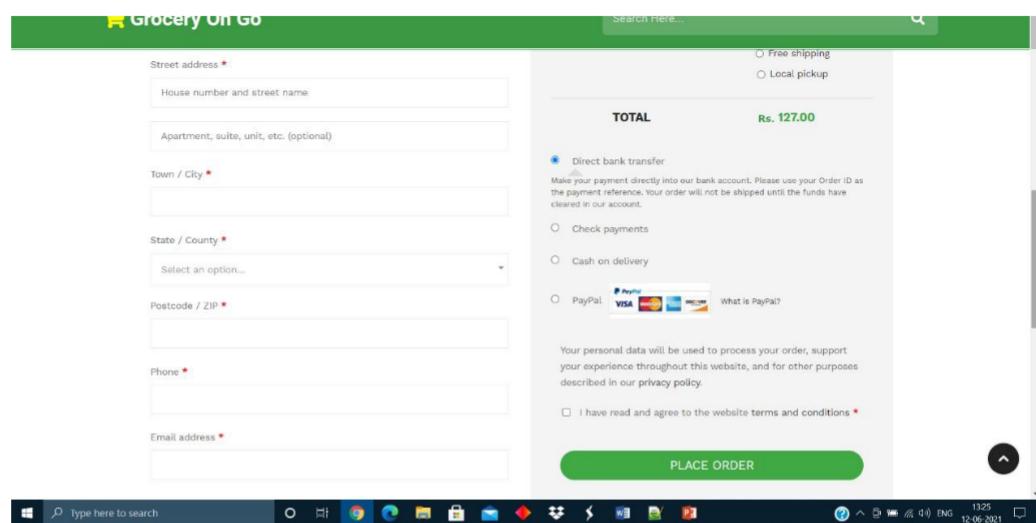


The screenshot shows a grocery checkout page with a header featuring a fruit and vegetable graphic. The main content includes a 'BILLING DETAILS' section with fields for First name, Last name, Company name (optional), and Country / Region (set to India). To the right is a 'YOUR ORDER' summary table:

PRODUCT	SUBTOTAL
Apple Gourd - 1 Kg	Rs 65.00
Bottol Gourd (Lauki)	Rs 60.00
SUBTOTAL	Rs 125.00
SHIPPING	Flat rate: 2.00

At the bottom, there are shipping options (Free shipping, Local pickup), a total of Rs. 127.00, and payment method selection (Direct bank transfer, Check payments, Cash on delivery, PayPal). A 'PLACE ORDER' button is at the bottom right.

14. Billing Details (2)

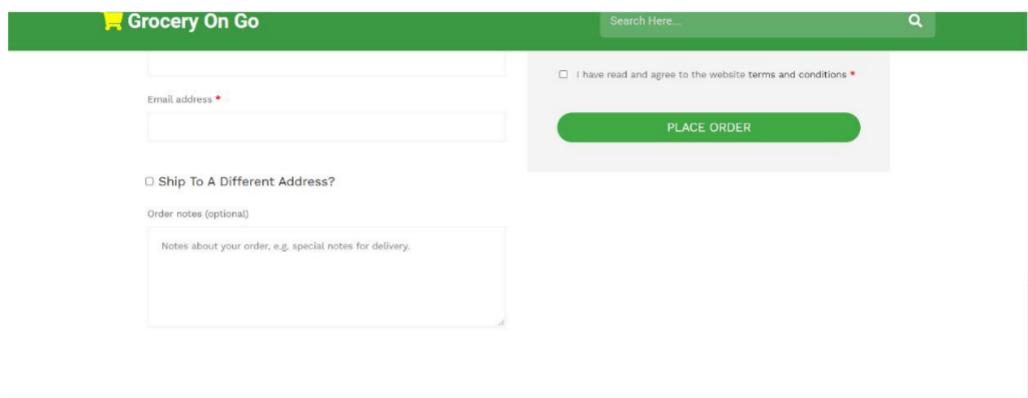


The screenshot shows a 'Grocery On Go' checkout page with a green header. The 'BILLING DETAILS' section contains fields for Street address, House number and street name, Apartment, suite, unit, etc. (optional), Town / City, State / County, Postcode / ZIP, Phone, and Email address. To the right is a 'TOTAL' section showing Rs. 127.00 and payment method selection:

- Direct bank transfer
- Check payments
- Cash on delivery
- PayPal

A note states: "Your personal data will be used to process your order, support your experience throughout this website, and for other purposes described in our privacy policy." A checkbox for accepting terms and conditions is present. A 'PLACE ORDER' button is at the bottom right.

15. Billing Details (3)



The screenshot shows the final step of the ordering process on the 'Grocery On Go' website. The top navigation bar is green with the logo 'Grocery On Go' and a search bar. Below the navigation, there are two input fields: 'Email address *' and 'Phone number *'. To the right of these fields is a checkbox labeled 'I have read and agree to the website terms and conditions *' and a large green 'PLACE ORDER' button. Below the input fields is a checkbox for 'Ship To A Different Address?' and a text area for 'Order notes (optional)' containing the placeholder text 'Notes about your order, e.g. special notes for delivery.'

Limitations of the project

The empirical results reported herein should be considered in the light of some limitations.

Apart from the need to shop online, there is a huge chunk of the population that loves technology and likes to shift to an online grocery management system even when going to a store isn't a problem for them. This has led to a huge shift in the grocery business.

Although the domain attracts a lot of users, there are a lot of difficulties of online grocery shopping that need to be fixed over time. If you are looking forward to entering the market with a highly rewarding application then a little research of the issues that you may gradually face must be worked on.

1. Escalating Storage as well as the Delivery Cost
2. Low-Profit Margin
3. Inefficient Delivery System
4. Deep-Rooted Consumer Behaviour
5. Difficulty in Penetration in Small Towns
6. Price Fluctuations & Marketing Costs
7. Customer Loyalty
8. Inventory Management

Scope & Future work of the Project

- ✗ Online ratings for the site needs to be developed by studying of Search Engine Optimization techniques.
- ✗ Online review system needs to be attached with the site so that whenever a person visits the site he/she can rate their experience.
- ✗ Digital Payment Techniques like Paytm, Google Pay needs to be executed quickly.
- ✗ There have to be language varieties associated with our site so that it can engage people from around the world.
- ✗ Analytics needs to be monitored so that the crowd can be redirected to the most selling accessories.

Conclusion

The development of the software includes many way user and management where one of them is the customer and other is the website owner. It is important to identify the system requirements properly by collecting required data to interact with the system. Proper design builds upon this foundation give a blueprint which is actually implemented by the developers.

On realizing the importance of this systematic documentation all the processes are implemented using a Software designing approach, where working in a live environment enables one to appreciate the intricacies involved in the system development life cycle.

We have gained a lot of practical knowledge in this project since it has designed and developed by using various web tools like HTML, CSS, JS, JQuery, and PHP which is the base of today's website building for different prospects.

References & Bibliography

BOOKS

- ✗ The Complete reference for HTML,CSS, JS, Java Query, PHP by Author: Herbert Scheldt
- ✗ The Complete Reference to Web Tools

WEBSITES

- ✗ www.w3schools.com
- ✗ www.wikipedia.com
- ✗ www.geeksforgeeks.com
- ✗ www.google.com
- ✗ www.stackoverflow.com