

Online Grocery Ordering System

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SRS Document

Purpose of Project:

This document details the software requirements for the E-commerce website. It defines what the problem is and what problems a complete solution has to solve. The purpose of this software requirements specification is to verify that all the specifications are correct and verified. This document also serves to ensure that the software is traceable throughout its software development life cycle.

Online Grocery Shop is based on a concept of making grocery orders from customers to providers. The purpose of this system is basically connect the providers and customers in a platform where provider can increase their sell fast and customers can buy their desire product from home which will also consume less time and make the life easier. On a web-based marketplace, each small business receives a greater exposure, than when operating alone, which in turn provides a greater opportunity for increased sales. Besides, customers also want many options before buying any product and want to order from home. So eventually, providers can reach to the bigger number of customers instantly from anywhere.

Scope of Project:

Online Grocery Shop is a platform for a grocery shop to enhance their sale. In this application the customer can login, select products, quantity and proceed towards confirm order. After confirming the order grocery provider will get a notification of order. Payment method will be cash on delivery. This website will give the grocery shop a greater exposure to their products.

Overall Description:

- User classes and characteristics:

There will be two types of users in the system there are admin and customers. First of all, the admin will have control and knowledge over the entire system. They can add and remove products as well. The admin got access to the shop information and has privilege to update it as well. The admin will be able to see shops current order request and can accept and cancel the request and also, they can see all order information. Along with ordering grocery online, the customers can view their personal information and update it in need. They can view which orders are pending and which are received.

Constraints:

The user needs to log in/register first with a personal email and password of their own. A computer or a smart phone device will be needed to access the site.

Assumptions:

As online grocery shopping will be a web-based platform, so a good internet connection will be required to access the website. It will be assumed that the users will possess good internet connectivity. Also, it is assumed that the user is familiar with the usage of computer/smartphone as access will be needed. Users will have to register using email address, so it is assumed that they will have one. The user interface will be in Basic English, so it is assumed that the user will have basic knowledge of English.

Functional Requirement:

This section provides requirement overview of the system. Various functional modules that can be implemented by the system are ->

Product Catalog:

- Any User will be able to view product.
- Catalog maintained by Shopper.

Inventory:

- Shopper will be able request to add new product to product catalog maintained by system.
- Shopper will be able to adding or removing products from product List.
- Product listing will be provided based their category, sale, quantity, likes, and recommendations.

Shopping Cart:

- Consumer will be able to add or remove products from shopping cart. System will maintain shopping cart for each consumer to maintain list of items selected by him/her.
- Consumer will be able view all items from shopping cart.
- Shopping Cart will present product details, number of items of product selected by consumer with price and total.

Order Processing:

- Registered Customer will be able place an order with the help of shopping cart maintained by system. Registered Customer will be able to cancel placed order within 24 hours.
- Registered customer get orders history. Registered customer can get details of order from orders been placed.
- Shopper will be able get details of orders of a particular Customer. Shopper will be able to cancel, reject or approve orders been placed by consumer due to some policies of Business.

Payment Processing:

- Consumer will be provided options for payment such as through internet banking or UPI or Online payment option. Consumer will ask to submit their payment related information. Consumer will be redirected to payment gateway for secure payment transaction. On successful payment processing using payment gateway system will notify consumer about transaction and order placement status.

Delivery:

- Delivery person will be able get delivery details so that he / she can deliver product to customer end.
- Delivery vendor will be able to list all product delivery to be done.

Customer Support:

- Customer will be able to update his/ her personal information.
- Shopper will be able to monitor daily online shopping business activities using their personalized dashboard.
- Customer will be able get their purchase related information using Customer Dashboard.

Non-Functional Requirement :**Security:**

- Registered Customer will allow placing an order.
- System will internally maintain secure communication channel between Servers (Web Servers, App Servers, database Server).
- Sensitive data will be always encrypted across communication.

Reliability:

- The system will backup business data on regular basis and recover in short time duration to keep system operational Continuous updates are maintain, continues Administration is done to keep system operational.
- During peak hours system will maintain same user experience by managing load balancing.

Availability:

- uptime: 24* 7 available

Accessibility:

- Only registered customer will be able to place an order after authentication.
- Shoppers will be able to see their product, delete, update, and add new products.

Efficiency and Maintainability:

- Page loads should be returned and formatted in a timely fashion depending on request being made.
- Administrators have ability to see all orders and maintain products.
- Commercial database software will be used to maintain System data Persistence.
- A readymade Web Server will be installed to host online shopping portal (Web Site) to management server capabilities.

Modularity:

- These modules will be loosely coupled and highly cohesive.

- System will contain CRM, Inventory, shopping cart, order processing, payment processing, and Delivery modules.

List of Features:

- Product Management
- Customer Report
- Orders Report

ER Listing:

- **Customer :**

- Customer Id
- Customer Name
- Email
- Password
- Mobile No
- Address_line1
- Address_line2
- City
- Pin code

- **Products :**

- Product Id
- Product Name
- Company Name
- Weight
- Unit
- MRP
- Rate
- Mfg Date
- Expire days

- **Orders :**

- Id
- Cust Id
- Order Date
- Status
- Total Amt

- **Order Details :**

- Id
- Cust Id
- Order Id

- P Id
- Qty
- Rate
- Amt

Application Architecture:

Application = Logic + data

Logic = (UI Logic + Business Logic + Data Access Logic)

Data = (structured data , Non Structured data)

Entity Relationships:

Customer (M) ----- (M) Product

Customer (1) ----- (M) Order

Product (M) ----- (1) Order

Order (1) ----- (1) Order Details