

FreshBasket

Online Grocery Delivery Management System

Team Members:

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1. Project Synopsis

FreshBasket is a full-stack web-based grocery delivery management system developed using React, Node.js, Express, and PostgreSQL. The system enables customers to browse products, manage carts, and place orders online. It also provides an admin dashboard for managing products, inventory, and orders.

2. Data Flow Diagram (DFD)

DFD Level 0 (Context Level Diagram)

External Entities: Customer, Admin
Process: FreshBasket System
Customer → (Register/Login, Browse, Order) → FreshBasket System
FreshBasket System → (Order Confirmation, Product Info) → Customer
Admin → (Manage Products, View Orders) → FreshBasket System
FreshBasket System → (Reports, Order Details) → Admin

DFD Level 1

Processes: 1. User Authentication 2. Product Management 3. Cart Management 4. Order Processing
Data Stores: D1 – Users Database D2 – Products Database D3 – Orders Database
Customer → User Authentication → Users Database
Customer → Browse Products → Products Database
Customer → Cart Management → Orders Database
Admin → Product Management → Products Database

3. Software Requirement Specification (SRS)

3.1 Introduction

The purpose of this document is to describe the functional and non-functional requirements of the FreshBasket system.

3.2 Functional Requirements

- User Registration and Login - Product Browsing and Search - Add to Cart and Remove from Cart - Order Placement and Order History - Admin Product Management - Admin Order Management

3.3 Non-Functional Requirements

- System should be responsive and user-friendly - Secure authentication and data encryption - Database consistency and integrity - Scalability for future expansion

3.4 Hardware & Software Requirements

Hardware: Computer/Laptop with internet connection Software: Node.js, PostgreSQL, React, Web Browser

3.5 Conclusion

FreshBasket provides a scalable and efficient online grocery delivery solution demonstrating full-stack development using modern technologies.