

Requirement Gathering and Analysis Phase

Solution Architecture

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Project Name	Grocery Web App

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

1. **structure, characteristics, behavior, and other aspects of the software to project stakeholders.**

Characteristics:

- User-Friendly Interface
- Product Management
- Shopping Cart and Checkout
- User Authentication and Account Management
- Payment Processing

Structure

- **Frontend** : User Interface (UI) Components
- **Backend** : Database

2.Technologies

- MongoDB,Express,ReactJs,NodeJs

3. Features, Development phases

- **Features**

Customer Side:

- Browsing categories
- Viewing product details
- Adding items to the cart
- Checkout and payment processing

Seller/Admin Side:

- Product listing and management
- **Development Phases**

- **Phase 1:** Requirement Analysis and Planning
- **Phase 2:** UI/UX Design
- **Phase 3:** Frontend Development
- **Phase 4:** Backend Development
- **Phase 5:** Integration and Testing

4.Specifications

- **Database Schema:** Clearly defined structure for database collections.
- **User Stories:** Specific scenarios for how users will interact with the app.

Solution Architecture Diagram:

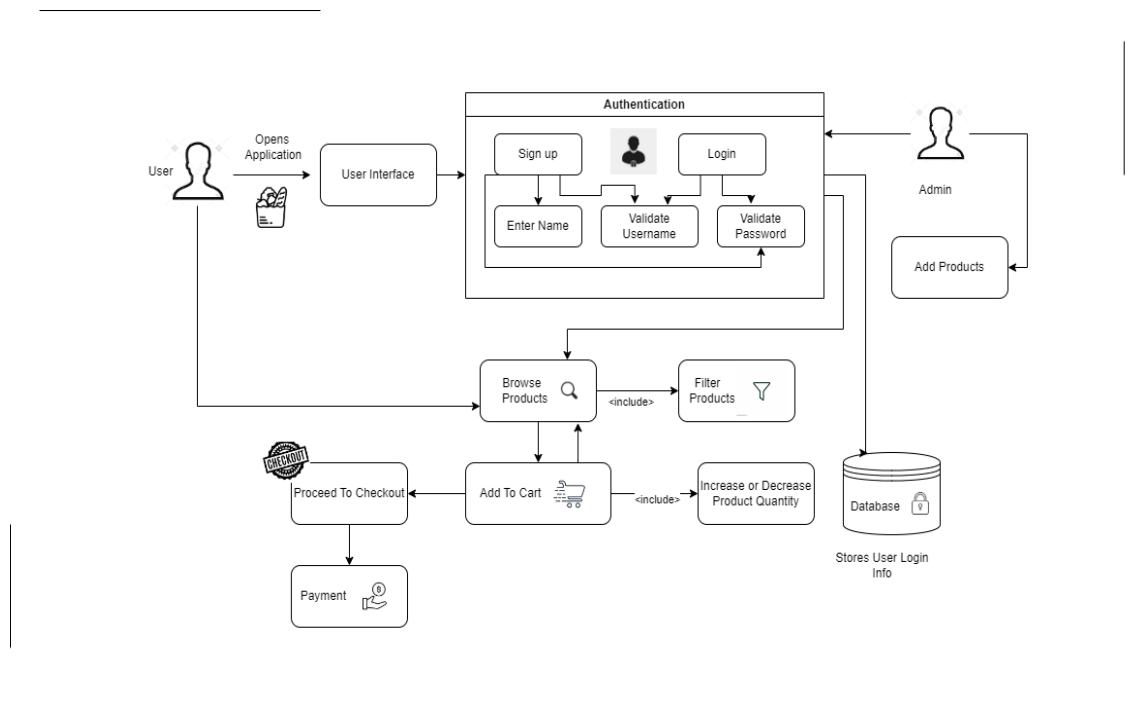


Figure 1: Architecture and data flow of the Grocery Web App