



AgroNeed

07.03.2025

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Introduction

AgroNeed is a user-centric e-commerce platform aimed at helping businesses sell products online efficiently. It prioritizes a seamless shopping experience for customers while providing robust tools for administrators to manage products, orders, and users effectively.

Overview

- Online product selling platform
- Customer-friendly UI & secure backend
- Business-oriented features like order, product, and user management
- Integrated payments and feedback mechanisms

Objectives

- Build a secure and scalable e-commerce system
- Simplify online shopping for customers
- Provide business tools for product and order handling
- Support multiple payment methods (Bkash, Card, COD)
- Encourage customer feedback via reviews

Target Users

Customers: Individuals who want to browse, purchase, and review products online.

Businesses/Admins: Business owners or staff who manage product listings, process orders, and track customer activity.

Key Features

For Customers:

- ❖ **User Registration & Authentication** – Sign-up, login, and password reset.
- ❖ **Product Catalog** – Browse products.
- ❖ **Shopping Cart** – Add, remove, and update items.
- ❖ **Secure Payments** – Integrate Bkash, Cash on Delivery, or credit card payments. Also added a discount for using any payment options.

- ❖ **Order Tracking** – View order history and track shipments.
- ❖ **Product Reviews & Ratings** – Share feedback on purchases.

For Admins:

- ❖ **Manage Products** – Add, update, and remove products.
- ❖ **Order Management** – Process and update order statuses.
- ❖ **User Management** – View and manage customer accounts.

Current Progress:

Implemented:

- Requirement Gathering – All functional and non-functional requirements documented
- Project Structure Setup – Backend, frontend, and database layers initialized
- Authentication & Authorization – Secure login(Using JWT) with role-based access control
- User Module (Partial) – Core user features like registration, profile, and cart are implemented
- Admin Dashboard Layout – Base layout and navigation developed
- Database Schema – Fully designed with entity relationships
- Category & Product Management – Categories, sub-categories, and product entry completed
- Product Display Module – All products are visible with filtering and details
- Add to Cart – Functional and integrated with product display
- Order Management – Order creation, summary, and detail tracking implemented

In Progress:

- Payment Integration & Order Confirmation Logic
- User Profile Enhancements and Supplier Info
- Admin-side Order Monitoring & Fulfillment
- Product Review and Rating System

Challenges Faced

- File upload handling & image conversion
- Integrating payment gateway (Bkash Ongoing)

Technology Stack

- ❖ **Frontend:** HTML, CSS, Bootstrap, JavaScript, JQuery, Thymeleaf.
- ❖ **Backend:** Java Spring Boot.
- ❖ **Database:** MySQL
- ❖ **Payment Gateway:** bkaash, Card, and COD.
- ❖ **Hosting & Deployment:** Windows.

Milestones

Phase	Description	Progress
Phase 1	Requirement Analysis & Design	Done
Phase 2	Development & Implementation	Ongoing
Phase 3	Testing & Debugging	Upcoming
Phase 4	Submission	—

Next Steps

- Complete Admin Dashboard
- Integrate Bkash/Card Payment APIs
- Add Order Tracking Functionality
- Finalize UI with validations
- Perform End-to-End Testing

Conclusion

Businesses will be able to increase their online presence and optimize operations with the help of this e-commerce platform. We are eager to talk about how we can modify this solution to fit your unique business requirements.