

Product Requirements Document (PRD)

Dipolog Cloud Cart (DCC)

"Groceries Delivered. Simplified."

Version: 1.0

Technology Stack: PHP 8.x, MySQL 8.x, HTML5, CSS3, Bootstrap 5, JavaScript, jQuery, AJAX

Architecture: MVC (Custom PHP MVC)

Database: MySQL

Deployment: XAMPP / Apache

1. Project Overview

Project Name

Dipolog Cloud Cart (DCC)

A modern multi-store online grocery marketplace specifically designed for Dipolog City where customers can order groceries from different stores within one application.

The system should focus on:

- Fast ordering
 - Beautiful UI
 - Easy store management
 - Mobile-first responsive design
 - Simple administration
-

2. Initial Store

Upon installation, the system automatically creates the first grocery store.

Store Name

Vallecer's Plaza

The admin can later add unlimited grocery stores.

Example:

Vallecer's Plaza

Lee Plaza

Prince Hypermart

Gaisano Dipolog

etc.

3. Technology

Frontend

Bootstrap 5

CSS3

JavaScript

AJAX

SweetAlert2

FontAwesome

Animate.css

Google Fonts (Poppins)

Backend

PHP 8

MVC Architecture

REST-like AJAX endpoints

PDO Prepared Statements

Password Hashing

CSRF Protection

Database

MySQL

4. User Roles

Administrator

Full system access

Can create stores

Manage products

Manage promotions

Manage package sales

Manage delivery fees

Manage orders

Manage users

Reports

Dashboard

Store Controller

Only manages assigned store.

Can:

Products

Inventory

Orders

Promo

Packages

Price updates

Availability

Customer

Can register

Can login

Can checkout as Guest

Can order from multiple stores

Track orders

View promotions

Wishlist

Order history

Guest

No registration required.

Can:

Browse

Add to cart

Checkout

Required during checkout:

Full Name

Contact Number

Address

Email (Optional)

5. System Modules

Dashboard

Beautiful modern dashboard.

Cards

Total Sales

Today's Orders

Pending Orders

Completed Orders

Cancelled Orders

Total Customers

Total Stores

Total Products

Charts

Weekly Sales

Monthly Sales

Best Selling Items

Store Sales

Recent Orders

Latest Customers

Store Management

Admin can:

Create Store

Edit Store

Delete Store

Enable / Disable Store

Store Information

Store Logo

Store Banner

Store Description

Opening Hours

Contact Number

Delivery Fee

Minimum Order

Free Delivery Threshold

Default Store

Vallecer's Plaza

Product Management

Each product belongs to a store.

Fields

Product Name

SKU

Barcode

Category

Subcategory

Description

Price

Promo Price

Stocks

Unit

Weight

Thumbnail

Gallery Images

Status

Featured

Popular

New Arrival

Inventory

Stock In

Stock Out

Adjustment

Inventory History

Categories

Beverages

Rice

Frozen Foods

Snacks

Vegetables

Fruits

Meat

Seafood

Bakery

Dairy

Personal Care

Household

Pet Supplies

Baby Products

Others

Promo For The Week

Separate module.

Fields

Promo Name

Banner

Description

Start Date

End Date

Discount

Participating Stores

Products Included

Status

Countdown Timer

Shown on Homepage.

Package Sale

Bundle Offers

Example

Breakfast Package

Rice + Eggs + Coffee

₱350

Family Package

Chicken

Rice

Vegetables

Softdrinks

₱1,250

Admin creates bundles.

Homepage

Modern shopping experience.

Hero Banner

Search

Categories

Promo of the Week

Package Sale

Featured Stores

Best Sellers

Recently Added

Popular Products

Recommended Products

Footer

Search

Instant AJAX Search

Search by:

Store

Product

Category

Brand

Package

Promo

Shopping Cart

One cart

Supports multiple stores.

Example

Cart

Vallecer's Plaza

Rice

Eggs

Milk

Subtotal

Store Delivery Fee

Lee Plaza

Coffee

Bread

Subtotal

Store Delivery Fee

Grand Total

Each store has its own delivery fee.

Configured in Store Settings.

Checkout

Supports:

Logged In

Guest Checkout

Customer Information

Full Name

Required

Contact Number

Required

Email

Optional

Delivery Address

City

Barangay

Purok

Street

Landmark

(Optional)

Notes

(Optional)

Delivery Schedule

Today

Tomorrow

Custom Date

Payment Methods

Cash on Delivery

GCash

Maya

Bank Transfer

Store Pickup

Order Summary

Products

Delivery Fee

Discount

Promo

Total

Orders

Statuses

Pending

Accepted

Preparing

Ready

Out for Delivery

Delivered

Cancelled

Refunded

Notifications

Email

SMS Ready

(Optional)

Browser Notification

Customer Account

Dashboard

Orders

Wishlist

Addresses

Saved Cards

Profile

Password

Logout

Admin Reports

Daily Sales

Weekly Sales

Monthly Sales

Annual Sales

Best Selling Products

Inventory Report

Store Sales

Customer Report

Profit Report

Excel Export

PDF Export

Settings

System Name

Logo

Theme

Currency

Delivery Fee

Tax

SMTP

SMS

GCash QR

Maintenance Mode

Database Tables

users

roles

stores

categories

subcategories

products

product_images

inventory

promo_week

package_sales

package_items

cart

cart_items

orders

order_items

payments

addresses

delivery_fees

settings

notifications

wishlist

activity_logs

audit_logs

UI/UX Design

Theme

Inspired by your logo (**dcc_logo_2**)

Location

C:\xampp\htdocs\DCC\dcc_logo_2

Primary Colors

Royal Blue

#0B63F6

Deep Navy

#082B72

Fresh Green

#67C23A

White

#FFFFFF

Light Gray

#F7F9FC

Font

Poppins

Style

Modern

Minimal

Rounded Corners

Soft Shadows

Glassmorphism Cards

Gradient Buttons

Animated Hover Effects

Smooth Transitions

Large Product Cards

Sticky Navigation

Bottom Mobile Navigation

Homepage Layout

LOGO

Search Bar

Login

Guest

Cart

Hero Banner

Promo for the Week

Package Sale

Featured Stores

Categories

Featured Products

Best Sellers

Footer

Product Card

+-----+

Image

Discount Badge

Favorite Button

Product Name

Store Name

★★★★★

Price

Old Price

Add to Cart

+-----+

Responsive Design

Desktop

Laptop

Tablet

Android

iPhone

Landscape Mode

Portrait Mode

Security

Password Hashing

Prepared Statements

CSRF Protection

XSS Filtering

SQL Injection Protection

Session Security

Audit Logs

Role Permissions

Performance

Lazy Loading

Image Compression

AJAX Pagination

Product Caching

Optimized SQL Queries

CDN Support

Future Version (v2)

Customer Reviews

Ratings

Coupons

Referral System

Loyalty Points

Driver App

Live Delivery Tracking

Push Notifications

QR Payments

Mobile App (Flutter)

Inventory Scanner

AI Product Recommendation

Recommended Project Structure

```
DCC/  
├── app/  
│   ├── controllers/  
│   ├── models/  
│   ├── views/  
│   ├── middleware/  
│   ├── helpers/  
│   └── core/  
├── assets/  
│   ├── css/  
│   ├── js/  
│   ├── images/  
│   ├── icons/  
│   └── uploads/  
├── config/  
├── database/  
│   ├── migrations/  
│   ├── seeders/  
│   └── schema.sql  
├── public/  
│   ├── index.php  
│   ├── .htaccess  
│   └── storage/  
├── routes/  
├── vendor/  
└── README.md
```

Suggested Enhancements

To make **Dipolog Cloud Cart (DCC)** stand out from typical grocery platforms, I recommend including these additional features from the start:

- **Store Open/Closed Status** with automatic ordering restrictions based on business hours.
- **Real-Time Stock Availability**, so customers cannot order out-of-stock items.
- **Smart Delivery Fee Rules**, allowing each store to configure fixed, distance-based, or free delivery thresholds.
- **Favorite Stores** and **Reorder Previous Purchases** for returning customers.
- **Announcement Banner** for holidays, weather advisories, or store-specific notices.

- **Admin Analytics Dashboard** with KPIs such as conversion rate, average order value, and top-performing stores.
- **Dark Mode** with automatic theme switching.
- **Progressive Web App (PWA)** support so users can install DCC on Android and iPhone without a native app.
- **Multi-image product gallery** with zoom functionality.
- **Flash Sales** in addition to "Promo for the Week."
- **Order Timeline** showing each stage from order placement through delivery.

This PRD defines a scalable, production-ready foundation for **Dipolog Cloud Cart (DCC)** while remaining fully implementable using **PHP 8, MySQL, Bootstrap 5, AJAX, and a custom MVC architecture** on XAMPP.