

PRODUCT BACKLOG DOCUMENT

**for Vinkay Market**

**CMU-SE 214 ACIS**

**Version 1.0**

Prepared by:  
**Group Name:** Vinkay Development Team

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**Instructor:** MSc. Nguyen Trung Thuan  
**Course:** Requirements Engineering  
**Lab Section:** CMU-SE 214 ACIS

**Team Member**:

1. Nguyen Quoc Vinh – 29219051305
2. Truong Ho Cong
3. Bui Van Duy
4. Chau Y Kazan
5. Tam Truong

**Document Create by:** NGUYEN QUOC VINH

**International School, Duy Tan University**

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| **Lead Institution** | International School, Duy Tan University | | |
| **Project Mentor** | Nguyen Trung Thuan, Msc. | | |
| **Partner Organization** | Duy Tan University | | |
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| **Team Members** | **Name** | **Email** | **Tel** |
| **Leader** | Nguyen Quoc Vinh | nguyenquocvinh.bocking@gmail.com | +84 888 6956 79 |
| **Member** | Truong Ho Cong | thcong2k5@gmail.com |  |
| Bui Van Duy | vanduy.24082005@gmail.com |  |
| Chau Y Kazan | tinzbinh748aacroll7@gmail.com |  |
| Tam Truong | Null |  |

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# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the project plan and requirements for the development of the Vinkay Mart mobile application. This app aims to revolutionize the grocery shopping experience for Vinkay Mart customers by providing a convenient, user-friendly platform for online shopping, order management, and personalized services.

This document serves as a comprehensive guide for the development team, stakeholders, and project managers. It defines the project's objectives, scope, and deliverables, ensuring all parties have a clear understanding of the project's goals and expectations.

## 1.2 Scope

The Vinkay Mart app project encompasses the design, development, testing, and deployment of a mobile application for both iOS and Android platforms. The app will provide the following key features:

User registration and authentication

Product browsing and search functionality

Shopping cart and checkout process

Order placement for delivery or pickup

Order history and tracking

User profile management

Loyalty program integration

Personalized product recommendations

The project will be completed over a period of four months, from September 8, 2024, to December 12, 2024. It will be developed by a team of five members, led by Vinh as the Project Manager and Lead Developer.

The scope includes the development of both frontend and backend components, integration with existing Vinkay Mart systems, and comprehensive testing to ensure a high-quality, reliable application. The project will conclude with the successful deployment of the app to both the Apple App Store and Google Play Store.

# 2. Product Backlog

## 2.1 Product Backlog Specification

| **ID** | **Theme** | **As a/an** | **I want to** | **So that** |
| --- | --- | --- | --- | --- |
| **PB01** | Register | Customer | Register an account | I can access personalized features of the Vinkay Mart app |
| **PB02** | Login | Customer | Log in to my account | I can access my personal information and shopping history |
| **PB03** | Product Browsing | Customer | Browse products by category | I can easily find items I want to purchase |
| **PB04** | Shopping Cart | Customer | Add items to my cart | I can prepare my order for checkout |
| **PB05** | Order Placement | Customer | Place an order for delivery or pickup | I can receive my groceries in the most convenient way |
| **PB06** | Order History | Customer | View my order history | I can easily reorder items or track past purchases |
| **PB07** | Shopping Lists | Customer | Create and save shopping lists | I can plan my purchases in advance |
| **PB08** | Loyalty Program | Customer | View and redeem loyalty points | I can benefit from my frequent purchases |
| **PB09** | Product Recommendations | Customer | Receive personalized product recommendations | I can discover new products based on my preferences |
| **PB10** | User Profile | Customer | Manage my user profile | I can update my personal information and preferences |

## 2.2 Break down into Sprint Backlog

| **Sprint** | **Function** | **Started day** | **Due day** |
| --- | --- | --- | --- |
| **SPRINT 1** | [Server/Backend] Register for customers | 08/09/2024 | 28/09/2024 |
| [Server/Backend] Forgot password functionality |
| [Server/Backend] Login for customers |
| [Server/Backend] Customer profile management |
| [Frontend] UI dashboard for customers |
| [Frontend] Show users page for admin |
| [Frontend] Show the profile page |
| **SPRINT 2** | [Server/Backend] Product catalog and search functionality | 29/09/2024 | 19/10/2024 |
| [Server/Backend] Shopping cart functionality |
| [Frontend] Product browsing and search UI |
| [Frontend] Shopping cart UI |
| [Frontend] Product details page |
| **SPRINT 3** | [Server/Backend] Order placement and processing | 20/10/2024 | 09/11/2024 |
| [Server/Backend] Order history tracking |
| [Frontend] Checkout process UI |
| [Frontend] Order confirmation page |
| [Frontend] Order history and tracking UI |
| **SPRINT 4** | [Server/Backend] Loyalty program implementation | 10/11/2024 | 30/11/2024 |
| [Server/Backend] Personalized recommendations engine |
| [Frontend] Loyalty program UI |
| [Frontend] Personalized recommendations display |
| [Frontend] User profile management UI |

# 3. Constraint

| **Constraint** | **Condition** |
| --- | --- |
| **Time** | Project completion time limit of 4 months (September 8, 2024 - December 12, 2024) |
| **People constraint** | 1 people (Vinh) working together to finish the project |
| **The integrated system** | Must be connected to Internet network to operate |
| **Requirements** | According to Product Owner's Requirements |
| **Technology** | Must be developed for both iOS and Android platforms |

# 4. Stakeholders and User Descriptions Summary

| **Name** | **Description** | **Role** |
| --- | --- | --- |
| **Product Owner** | The person who provides the requirements | Provide information to develop the system. Make decisions to accept and implement the project, perform unit tests |
| **Vinh** | Project Manager & Lead Developer | Oversee project progress, make key decisions, lead development efforts |
| **Vinh** | UI/UX Designer | Design user interface and user experience for the app |
| **Vinh** | Backend Developer | Develop server-side logic and API endpoints |
| **Duy** | QA Tester | Ensure quality and perform thorough testing of the app |
| **Vinh** | Frontend Developer | Implement user interface and client-side functionality |
| **End Users** | Customers of Vinkay Mart | Use the app for online grocery shopping and related services |