
Group 38

Online Shopping Management System - MSIKI

Business Architecture Document

Version 1.0

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BMP02	

Revision History

Date	Version	Description	Author
29/11/2024	1.0	Final Project	Nguyen Thanh Hoa Dang Thanh Trung

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1. Introduction

1.1 Purpose

This document provides a comprehensive architectural overview of the online shopping system of MSIKI, using a number of different architectural views to depict different aspects of the business. It is intended to capture and convey the significant architectural decisions that have been made.

1.2 Scope

The project is divided into two parts: software and infrastructure. The primary focus is on developing the software that facilitates the main platform functionalities, such as posting products up for sale, searching for products to buy, and managing items. Infrastructure design will primarily support software connectivity, ensuring seamless interactions between modules for reliability and user experience.

1.3 Definitions, Acronyms, and Abbreviations

This software is built on the MVC pattern: 3-layer design consists of Model - View - Controller

1.4 References

Document BMP01, version 0.1: Supplementary Business Specification

1.5 Overview

The Business Architecture Document provides a comprehensive view of a company's structural elements through a methodical organization. The document starts with a detailed look at the architectural representation, exploring how to leverage different perspectives and the Unified Modeling Language (UML). The report then examines the architectural goals and constraints, providing information on key decision factors. The perspectives of business processes, organizational structure, business use case realization, culture, human resource factors, scale and performance goals, and quality goals are presented in turn in the following sections. This organized format ensures a compelling look at enterprise architecture By guiding the reader through its many dimensions.

2. Architectural Representation

User: Administrators, sellers and buyers

- Administrators: oversees the system by managing users, categories, advertisements, and ensuring compliance, security, and smooth platform operation.
- Sellers: uses the system to manage product listings, create collections, run promotions, and handle orders to efficiently market and sell their products.
- Buyers: uses the system to search for products, manage their profile and cart, place orders, make payments, and track or modify purchases.

3. Architectural Drivers

The MSIKI Online Shopping Management System is designed for users with devices that have access to the internet, such as smartphones, tablets, or computers. The system must comply with local and international standards for data protection, privacy, and secure online transactions. Additionally, the architecture should consider scalability to support a growing number of users and policies that accommodate sellers and vendors from diverse geographical locations.

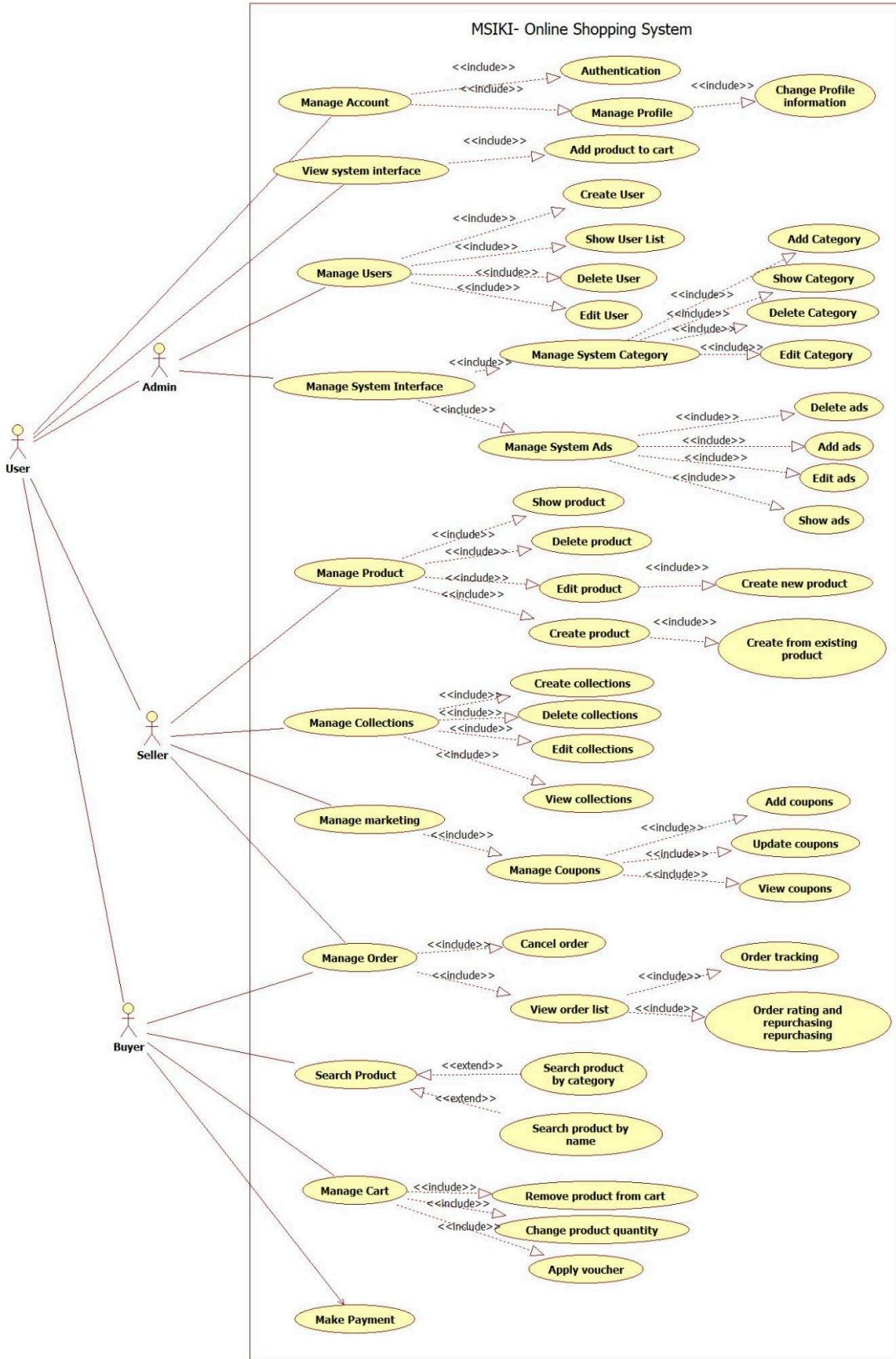
4. Market View

MSIKI operates in the e-commerce market, targeting Vietnamese consumers and sellers. Current trends include increasing online shopping adoption, demand for fast delivery, and cashless payments. The system serves customers seeking convenience and security, and vendors aiming to reach a broad audience. MSIKI's value proposition includes a streamlined user experience, reliable delivery, and tools for sellers to efficiently manage products and promotions.

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5. Business Process View

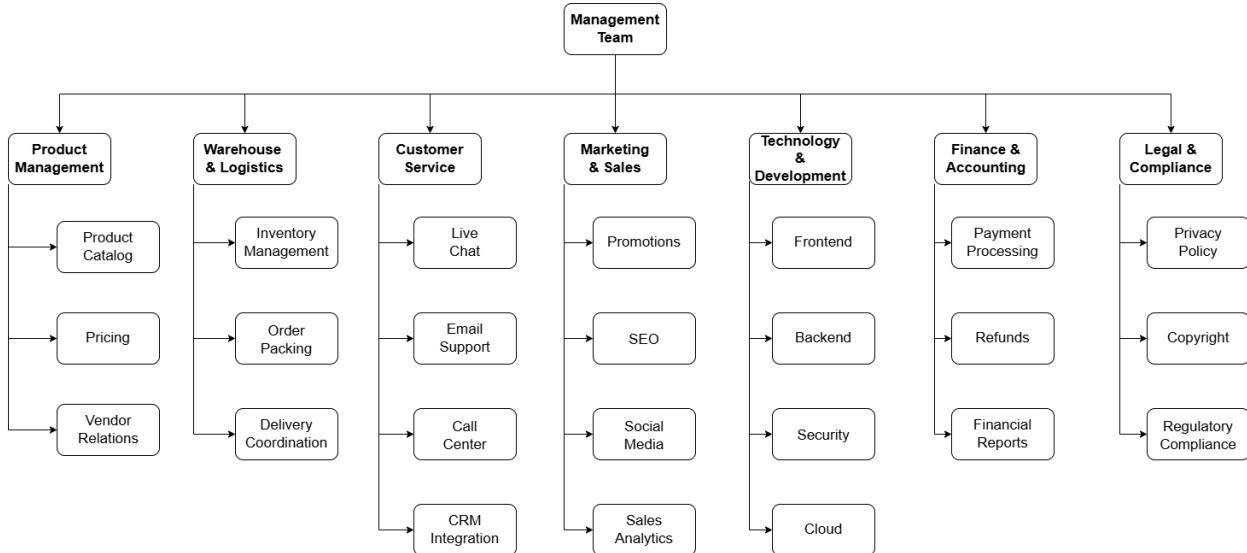
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6. Organization View

6.1 Organization Structure



6.2 Business Use-Case Realizations

NA.

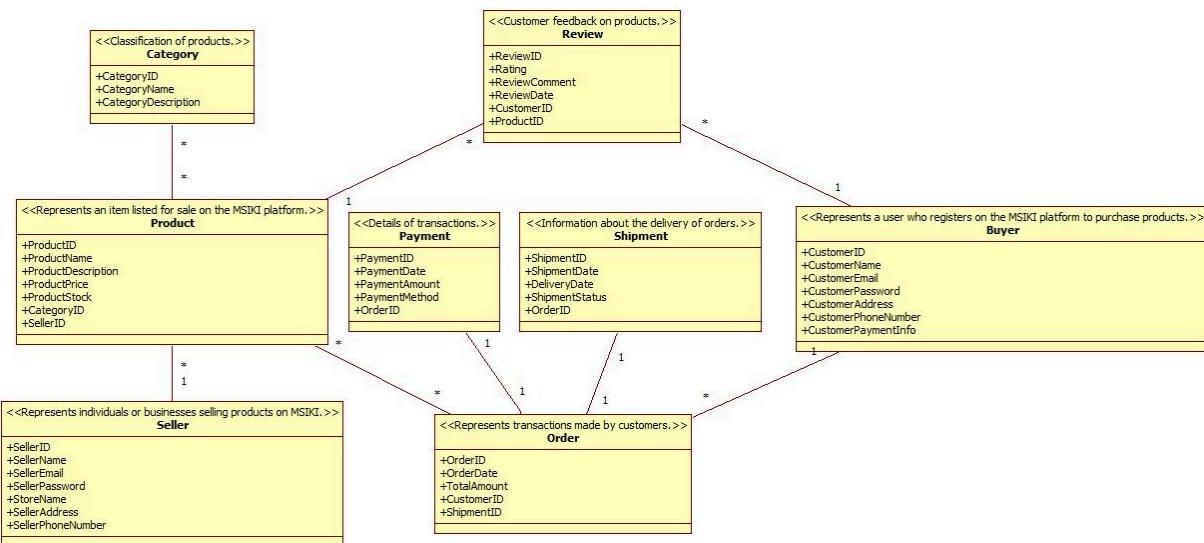
6.3 General Patterns of Behaviour

The platform uses automated workflows for key tasks such as product listing approval, order tracking updates, and fraud detection. These workflows ensure efficiency and reliability in business operations.

7. Human Resource View

N/A.

8. Domain View

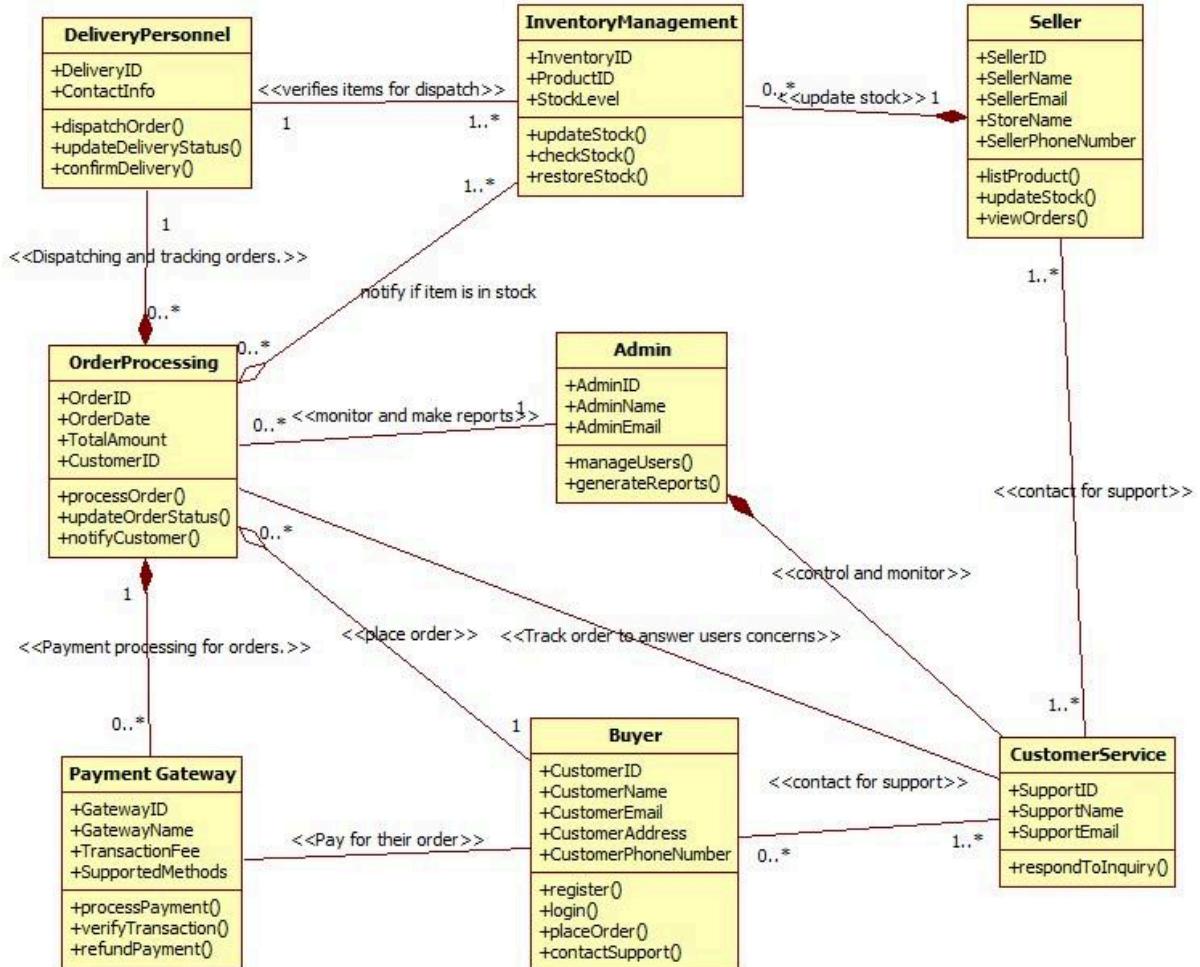


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9. Geographic View

NA.

10. Communication View



- Customer: An individual who registers on the MSIKI system to purchase products.
- Seller: An individual or business that lists and sells products on the MSIKI system.
- Administrator: Personnel responsible for managing the MSIKI system and resolving issues.
- Order Processing: The system functionality that handles the creation, management, and tracking of customer orders.
- Payment Gateway: A service that processes payment transactions between the customer and the seller.
- Inventory Management: The system functionality that manages product stock levels and updates.
- Delivery Personnel: Individuals responsible for delivering orders to customers.
- Customer Service: An employee responsible for supporting and responding to customers inquiry.

11. Architectural Trade-offs

The business architecture needs to balance scalability with performance. Modular design to add new

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features without disrupting existing functionalities. Robust encryption protocols may slow response times but prioritize user safety. Investments in scalable infrastructure versus maintaining affordable fees for users.