# CEBU INSTITUTE OF TECHNOLOGY
## U N I V E R S I T Y

# Functional Requirements

# Restaurant Management System

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# Restaurant Management System

This document details the functional requirements for the Restaurant Management System. It outlines the key features and capabilities the system must have to meet the needs of restaurant owners, managers, staff, and customers effectively.

# 1. Introduction

### 1.1  Purpose

The primary purpose of this document is to define the functional requirements for DilaoRant: Restaurant Management System. It serves as a comprehensive guide for the development team and end-users, outlining the system's intended features and user interactions. This document aims to establish a clear and shared understanding of the system's capabilities and limitations prior to the commencement of the development process.

### 1.2  Scope

The Restaurant Management System aims to streamline and optimize the daily operations of restaurants by offering a comprehensive platform tailored to the needs of restaurant owners, managers, staff, and customers. The system's scope includes functionalities such as secure user authentication, efficient order management, inventory tracking, employee scheduling, and robust data security. By addressing these core areas, the system is designed to improve operational efficiency, enhance customer satisfaction, and ensure smooth management of restaurant workflows.

### 1.3 Definitions, Acronyms and Abbreviations

Cashier: A user responsible for processing customer orders and payments at the point of sale.
Admin: A user with full access to manage accounts, configurations, and oversee system operations.

# 2. Overview

The Restaurant Management System is designed to streamline and optimize the daily operations of restaurants by providing a robust platform for restaurant owners, managers, staff, and customers. This document outlines the functional requirements that define the system's capabilities, focusing on features such as order management, inventory tracking, employee scheduling, and data security. The system's ultimate goal is to enhance efficiency, improve user experience, and ensure reliable access to critical operational tools.

# 3. Functional Requirements

**Functional Requirements Table:**

| Task | Function | Description | Priority | Inputs | Outputs |
|------|----------|-------------|----------|--------|---------|
| T1 | User Authentication and Access Control | The system must have a secure login process to ensure that only authorized users can access specific areas. | High | Username, Password | Access Granted/Denied Message, User Dashboard |
| T2 | Order Management | The system should allow staff to take and track customer orders efficiently. | High | Order Details | Order Confirmation, Kitchen Ticket |
| T3 | Inventory Management | Track inventory levels, manage supplier information, and generate alerts for low stock. | High | Item Details, Supplier Info | Updated Inventory, Low Stock Alerts |
| T4 | Employee Scheduling | Create and manage employee work schedules, track attendance, and shift changes. | Medium | Employee Details, Schedule | Updated Schedule, Attendance Records |

| T5 | Reporting | Generate sales, inventory, and employee performance reports. | Low | Report Criteria | Sales Reports, Inventory Reports, Performance Reports |
|---|---|---|---|---|---|
| T6 | Menu Management | Update and manage the restaurant menu, including prices and availability. | Medium | Menu Item Details | Updated Menu, Availability Status |
| T7 | Payment Processing | Handle customer payments and integrate with third-party payment processors. | High | Payment Details | Payment Confirmation, Receipt |
| T8 | Role-Based Access Control | Define and manage user roles and permissions within the system. | High | User Role Definitions | Role-Based Access Control, User Activity Logs |
| T9 | Security and Data Privacy | Ensure data security and privacy, complying with relevant regulations and standards. | High | Security Policies | Encrypted Data, Decryption Logs |
| T10 | Advanced Search Functionality | Provide advanced search options to locate specific orders, | Medium | Search Criteria | Search Results, Filtered Data |

| | | customers, or inventory items. | | | |
|---|---|---|---|---|---|
| T11 | Password Management | Implement password recovery and change mechanisms. | Medium | Password Reset Requests | Password Reset Emails, Updated Passwords |