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Subject: Software Construction & Development

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Software Requirement Specification

For

<Online Food Delivery Management System>

Version 1.o Approved

Prepared by <Atif Tauqeer>

Date<14 May, 2025>

➢ Requirement Specification Document

- **Functional Requirements**

1. **User Registration/Login** : Customers, Restaurants, and Delivery Personnel can register and login.
2. **Browse Menu** : Customers can browse food items by category or restaurant.
3. **Order Placement** : Customers can select items, place orders, and make payments.
4. **Order Tracking** : Real-time status updates (Order Placed, Prepared, On the Way, Delivered).
5. **Feedback System** : Customers can rate and review food and delivery.
6. **Admin Panel** : Admin can manage users, view analytics, and control platform settings.

- **Non-Functional Requirements**

1. **Performance** : System should handle 1000+ concurrent users.
2. **Reliability** : 99.9% uptime.
3. **Security** :End-to-end encryption for user data and transactions.
4. **Scalability** : Easily adaptable to new cities or countries.
5. **Usability** :Intuitive interface across web and mobile devices.

➢ Purpose Of Functional & Non-Functional Requirement

1. Functional Requirements

Definition

Functional requirements describe **what the system should do** the specific behaviors, features, and functions

Purpose

- Define the **core functionality** of the system.
- Ensure all **user interactions and system operations** are accounted for.
- Serve as a **contract** between stakeholders (developers, clients, users).
- Guide the **system design, development, and testing** phases.

2. Non-Functional Requirements

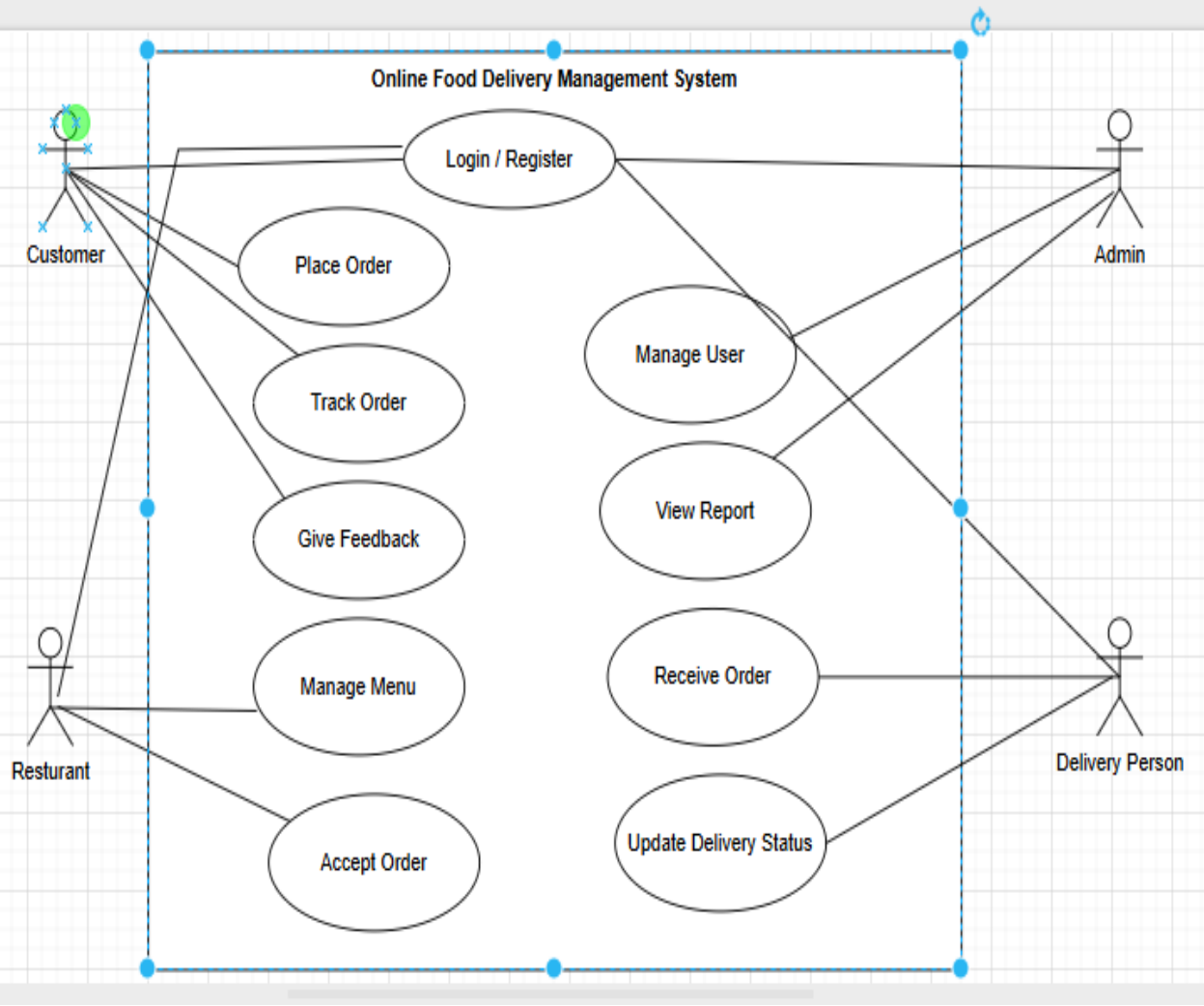
Definition

Non-functional requirements describe **how the system performs** — the **quality attributes** like performance, security, reliability, and usability.

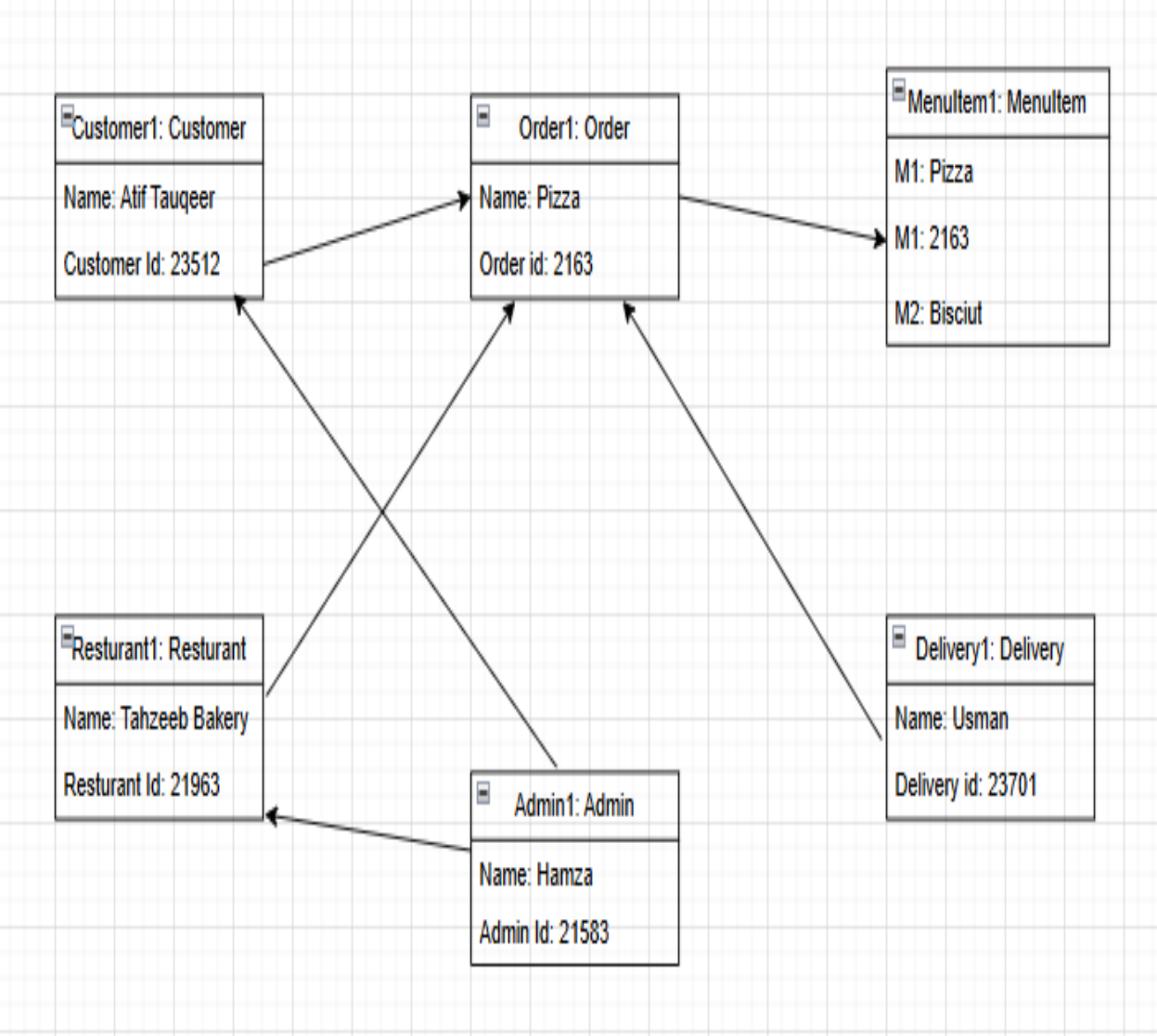
Purpose

- Define **system constraints** and expectations beyond functionality.
- Help ensure the **user experience, maintainability, and scalability** of the system.
- Provide a **benchmark** for testing the system's performance.
- Reduce risk by identifying **technical limitations or challenges** early.

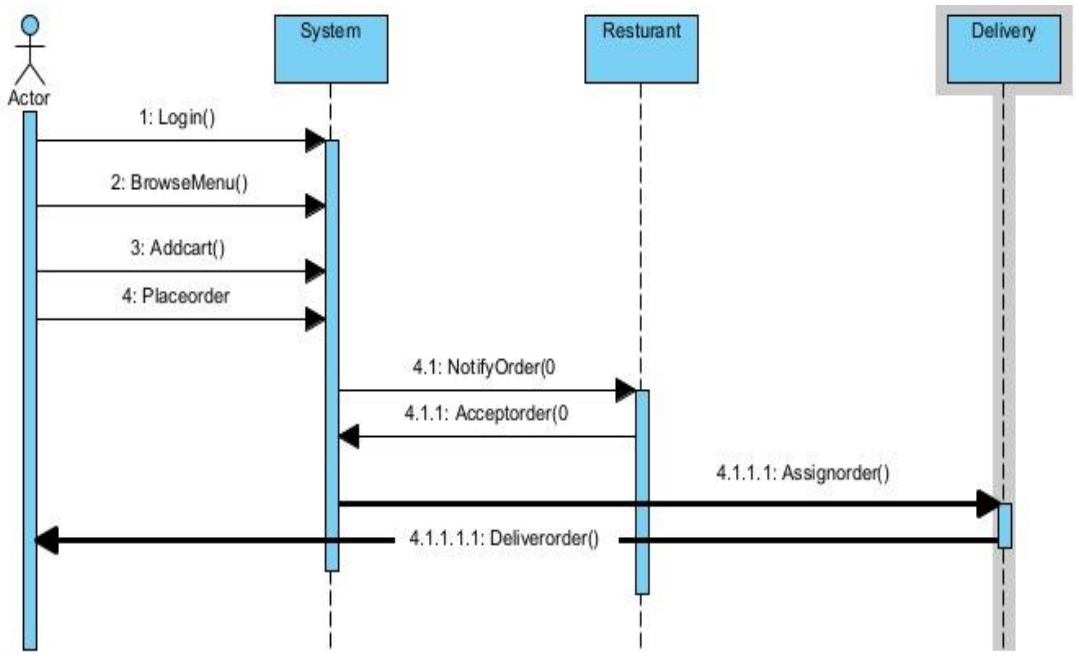
UML Use Case Diagram



UML Object Diagram



UML Sequence Diagram



UML Communication Diagram