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## **Software Construction & Development (SE-308-B)**

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Project Title:

**POS (Point of Sale)**

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Submitted by:

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**Maida Kosser (221400091)**

Submitted to:

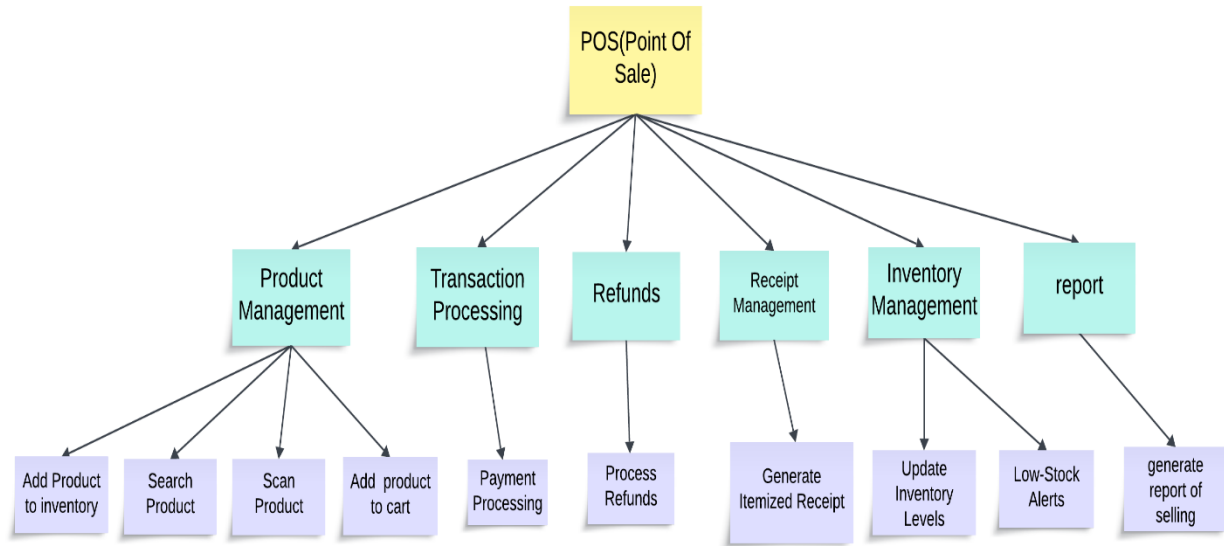
**Mam Sajiya Tariq**

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**BS Software Engineering (V)**

**GIFT University, Gujranwala**

## 1. Feature Tree:



## 2. Functional Requirements:

Serial No	Functionality
<b>FR-1: Product Management</b>	
1.1	The system shall allow sales personnel to add the products to the inventory.
1.2	The system shall allow sales personnel to search for products.
1.3	The system shall allow sales personnel to scan products.
1.4	The system shall allow sales personnel to add products to cart for selling.
<b>FR-2: Transaction Processing</b>	
2.1	The system shall be able to support payment processing.
<b>FR-3: Refunds</b>	
3.1	The system shall allow sales personnel to process refunds.
<b>FR-4: Inventory Management</b>	
4.1	The system shall be able to update inventory levels.
4.2	The system shall be able to alert low-stock alerts.
<b>FR-5: Receipt Management</b>	
5.1	The system shall be able to generate an itemized receipt.
<b>FR-6: Report</b>	
6.1	The system shall be able to generate the sales reports.

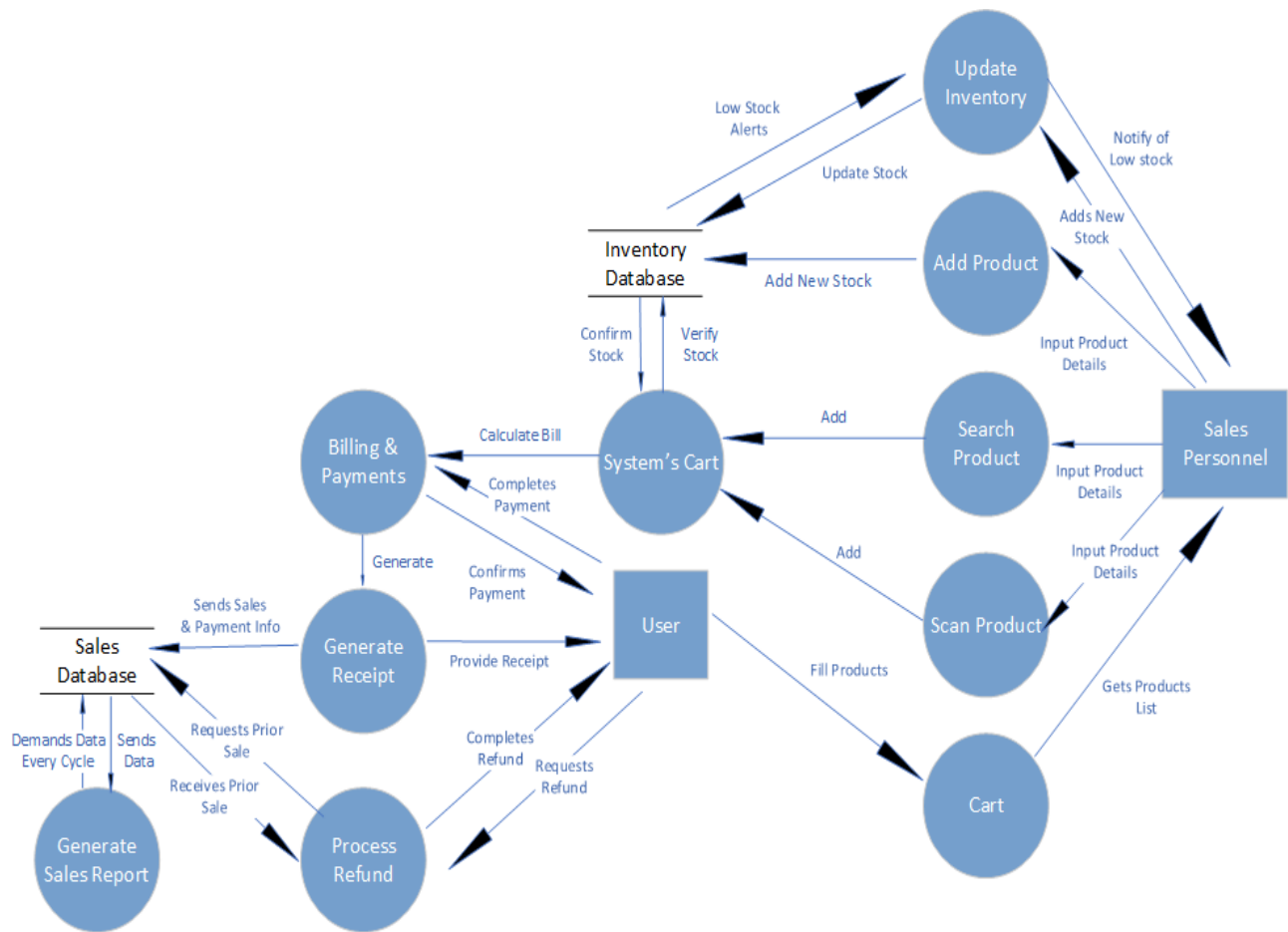
### 3. Non-Functional Requirements:

Serial No	Non-Functional Requirement
NFR-1	The system shall process transactions in under <b>3 seconds</b> to ensure fast checkout.
NFR-2	The system shall use <b>encryption protocols</b> to secure sensitive data such as payment details.
NFR-3	The system shall have an uptime of <b>99.9%</b> , minimal downtime during scheduled maintenance to support business operations.
NFR-4	The system user interface shall be <b>intuitive</b> , requiring minimal training for sales personnel to add products, process payments, and issue refunds.
NFR-5	The system must support 100 concurrent users normally and upto 200 in special days without any degradation in performance within 1 year.

### 4. Context Level Diagram/Data Flow Diagram:

#### Level 0:



**Level 1:**

**5. Conclusion Report for this stage:** This report summarizes the outcomes of the current stage, encompassing all the key components finalized during this phase. The following tasks were done:

1. **Feature Tree**
2. **Functional Requirements**
3. **Non-Functional Requirements**
4. **Data Flow Diagrams (DFD)**

Each element was checked and reviewed in an iterative process. Mistakes were identified and corrected during multiple iterations. The work review by the instructor to ensure accuracy and alignment with project objectives. The finalized document is a collaborative effort, with both team members cross-checking each other's work to identify and rectify errors. This systematic approach ensured that all components are consistent and meet the expected standards. This document represents the culmination of all tasks performed in this stage, reflecting the combined efforts of the team.

**6. SCD Project Status Report:****Date/Day:** 12-12-2024**Project Name:** POS (Point of Sale)**Project Lead:****Report Date:** 12-12-2024**Section:** B**Group No:** 9

Task	Member Roll #	Assigned Task %	Completed %
Feature tree, FR, NFR, Data flow diagram	221400091	50%	50%
	221400003	50%	50%
<b>Total</b>		100%	100%

**Project stage completion Percentage:** \_\_\_\_\_**Comments:**

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**Project Lead:****Instructor:** Mam Sajiya Tariq