



**TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES
TAGUIG CAMPUS**

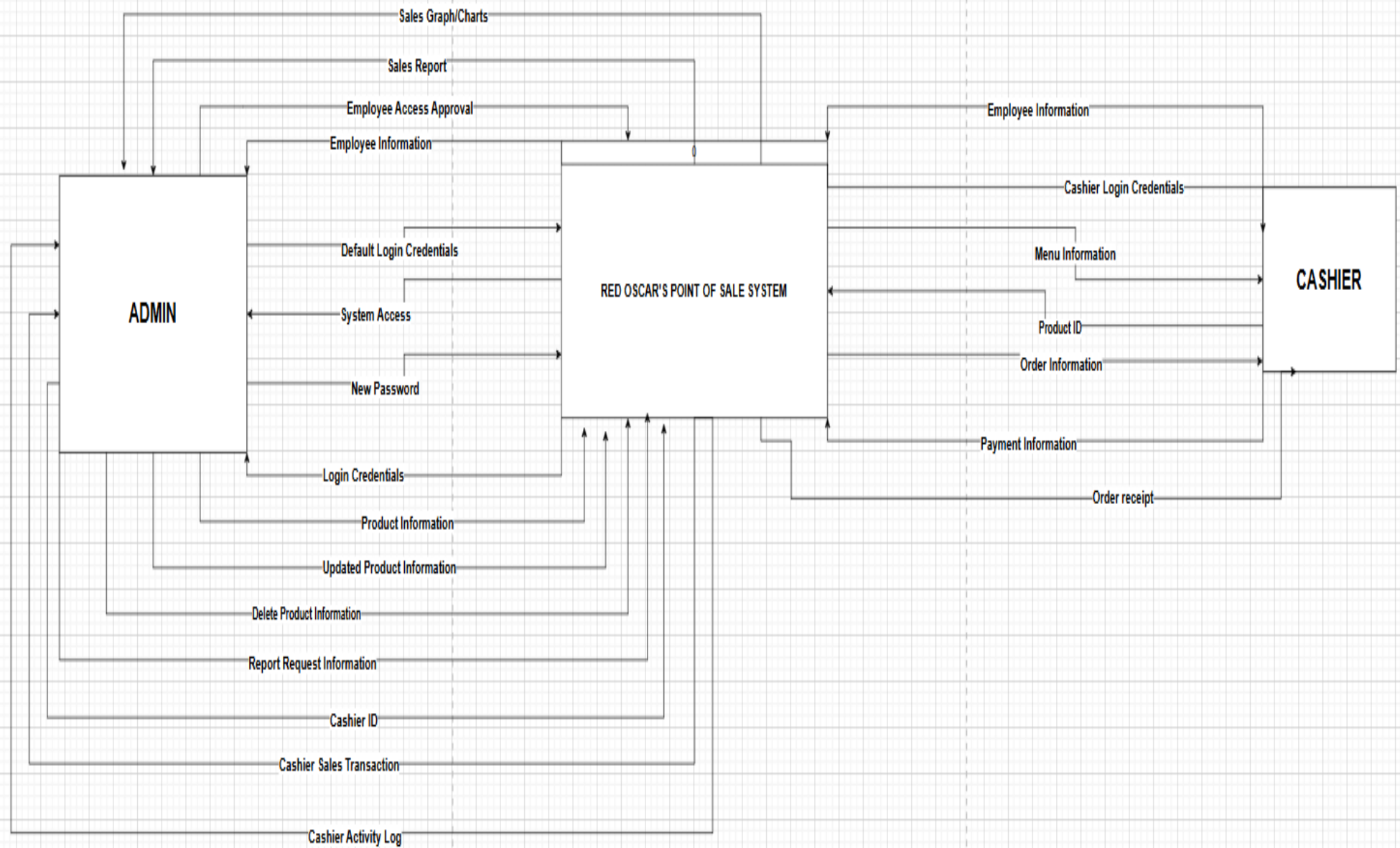
Bachelor of Technical Vocational Teacher Education
Basic Arts and Sciences Department

Data Flow Diagram

ITSD220-T – System Analysis and Design

Output 9

PROJECT NAME	POS Inventory Management System		
CLIENT	Red Oscar Japanese-Filipino Food House		
DURATION	3 months and 2 weeks		
START DATE	06/12/25	END DATE	08/02/25
DESCRIPTION	<p>The “Red Oscar Inventory Management System” is a comprehensive solution designed to streamline inventory tracking and management for Red Oscar Japanese-Filipino Food House. This system provides real-time visibility into stock levels, automates ordering processes, and helps minimize waste, ultimately improving efficiency and profitability.</p>		





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CONTEXT DIAGRAM

In our Point of Sale Inventory Management System for Red Oscar Japanese-Filipino Food House, the process begins with the User Management module. Here, the Admin plays a key role in creating and approving employee accounts. They set up default login credentials, assign system access rights, and manage password changes when necessary. Once everything is set up, the Cashier uses these credentials to log in to the system. This ensures that every cashier has secure and appropriate access to perform their tasks efficiently. After logging in, the Admin proceeds to the Product Management module, where they add, update, or delete product information. This includes everything from new menu items to price changes. These updates are immediately reflected on the cashier's interface, providing them with the most up-to-date menu for processing orders. When a customer places an order, the Cashier interacts with the Transaction Management module by selecting the product, inputting order details, and processing payments. Once the transaction is complete, a receipt is generated, and the Admin can later view these transactions for monitoring and record-keeping. To track overall performance, the Admin can request sales reports and visual charts from the Report Analytics module, helping with business decisions and evaluations. The Cashier can also access these reports for day-to-day reference. Finally, in the Cashier Management module, the Admin inputs cashier IDs to retrieve specific sales transactions and activity logs for each cashier. This allows the Admin to evaluate performance, track issues, and ensure accountability. The entire process works together to create a smooth, accurate, and well-managed inventory and sales environment for the business.

The Point of Sale Inventory Management System serves two primary external entities: the Admin and the Cashier. The system allows both users to interact with various core functions, enabling smooth operations within the business. The Admin interacts with the system to manage employee accounts, handle cashier access credentials, and monitor user activities. They also manage the product database by adding, updating, and removing product information. Through the system, the Admin can view sales transactions, request detailed sales reports, and access analytical data such as sales charts and graphs. Furthermore, the Admin can oversee cashier performance by retrieving sales transactions and reviewing activity logs using the cashier's ID. The Cashier, on the other hand, uses the system to log in with system-provided credentials, view updated product menus, and process customer orders. The cashier sends product IDs and order details to the system, which then returns payment information and generates receipts. Cashiers also have access to view their sales reports and analytics for better sales tracking. Additionally, all cashier activities and transactions are monitored and recorded by the system for administrative oversight. In summary, the system acts as a central hub that receives and sends data between Admin and Cashier users, while ensuring accuracy, efficiency, and security in managing users, products, transactions, reports, and performance logs.



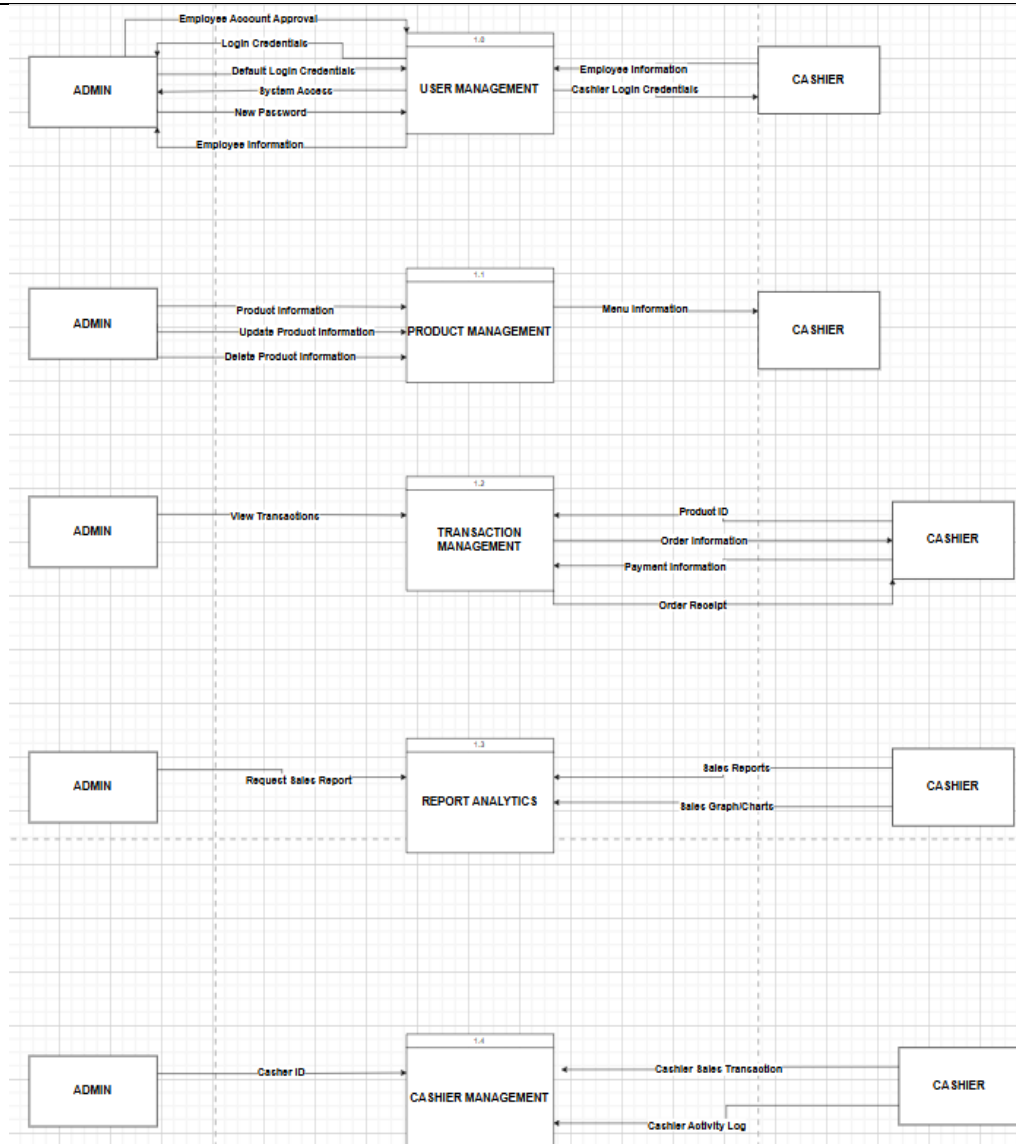
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LEVEL 1 DFD PROCESS 1

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