

Requirement Analysis

Data Flow Diagrams & User Stories

Date	13 April 2025
Team ID	SWITD1743680479
Project Name	SB Foods - Food Ordering App
Maximum Marks	4 marks

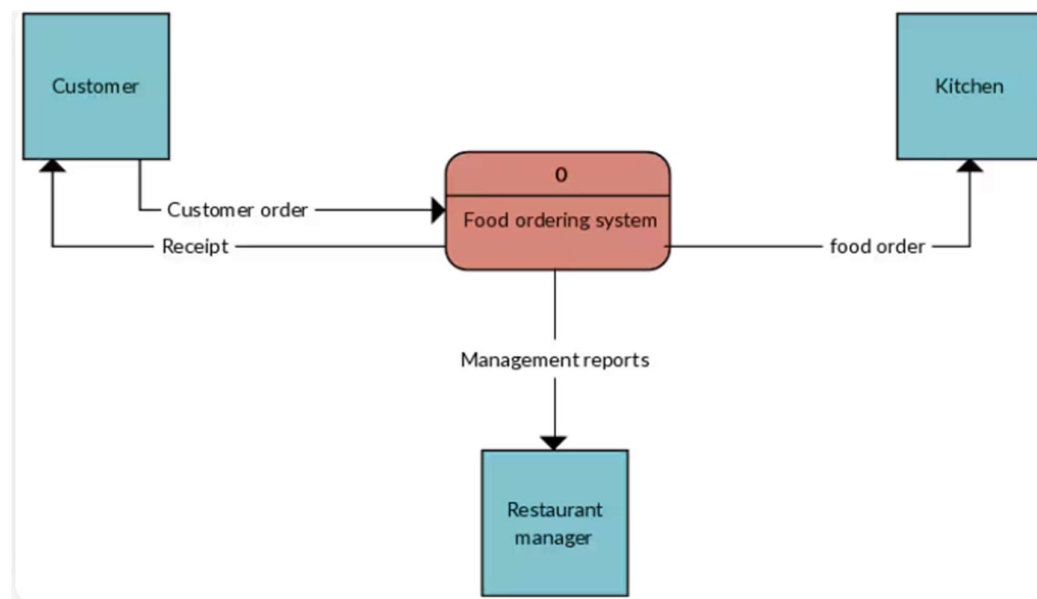
Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

SB Foods - Food Ordering App DFDs:

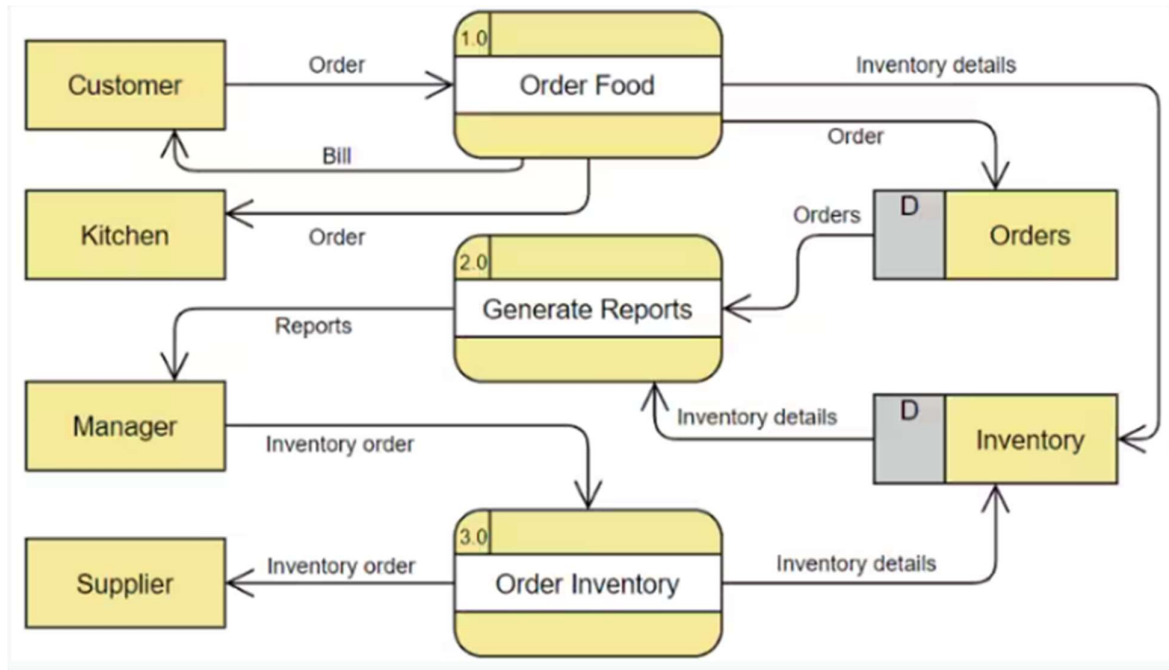
Level-0 Description:

It represents the system as a single process wrapped by additional objects. The primary process in the context of a meal ordering system is the system itself, whereas external entities can be customers, restaurants, delivery people, and payment gateways. A bird's-eye view of how information enters and exits the system is provided by the data flows between these entities and the system.



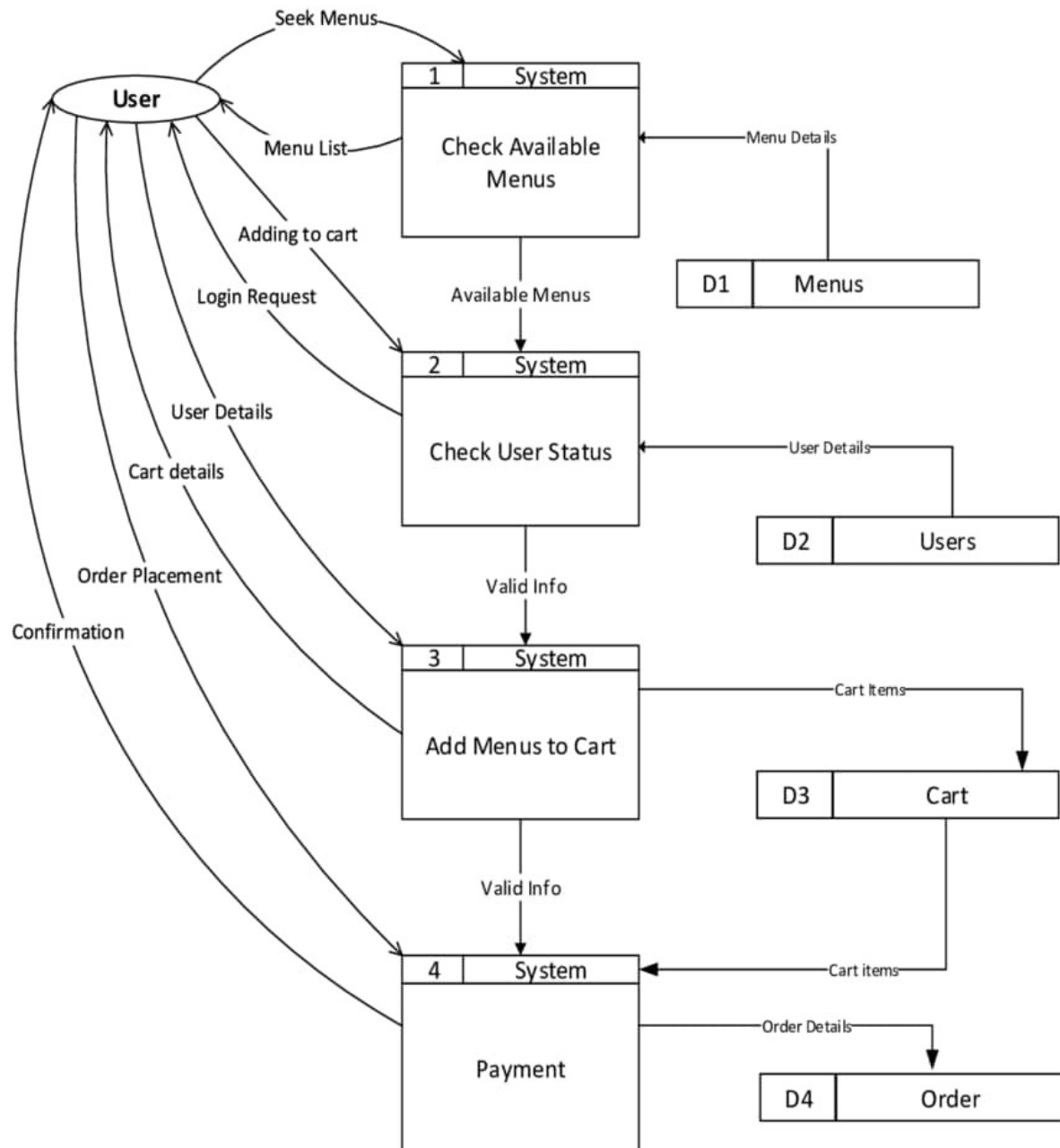
Level-1 Description and Processes:

DFDs at Level 1 split the primary process into smaller processes or functions, each of which is symbolized by a different process symbol. For instance, Level 1 DFD in a meal ordering system may cover operations like "Order Processing," "Payment Handling," and "Menu Management." Data flow between these operations and external entities is depicted using data flows.



Level-2 Deeper Dive:

Food ordering platforms are complex for better understanding we need to go to Level 2 DFD. DFDs at Level 2 provide a more detailed view of individual processes than DFDs at Level 1. Level 1's "Order Processing" procedure, for example, can be divided into sub-processes like "Order Verification," "Menu Item Selection," and "Payment Authorization." These sub-processes are represented as processes with complete data flows and data stores.



User Stories

User Type	Functional Requirement	User Story Number	User Story	Acceptance Criteria	Priority	Release
Customer (Web user)	Account Management	FOS 1	As a user, I want to create an account so I can place orders.	I can enter personal details, create a username/password, and receive confirmation.	High	Sprint 1
Customer (Web user)	Account Management	FOS 2	As a user, I want to log in to my account.	I can enter credentials and access my dashboard.	High	Sprint 1
Customer (Web user)	Account Management	FOS 3	As a user, I want to reset my password securely.	I can request a reset link and change my password successfully.	High	Sprint 2
Customer (Web user)	Restaurant Discovery	FOS 4	As a user, I want to browse and search restaurants by cuisine or rating.	I can filter/search restaurants and see relevant results.	High	Sprint 1
Customer (Web user)	Menu Browsing	FOS 5	As a user, I want to view the menu of a selected restaurant.	I can see all available dishes with prices, images, and descriptions.	High	Sprint 1
Customer (Web user)	Ordering	FOS 6	As a user, I want to add food items to my cart.	I can select quantity, customize items, and see the cart total.	High	Sprint 1
Customer (Web user)	Ordering	FOS 7	As a user, I want to place an order with delivery address and payment.	I can choose address, payment method, and confirm the order.	High	Sprint 2
Customer (Web user)	Order Tracking	FOS 8	As a user, I want to track the status of my order.	I can see real-time updates like "Preparing", "Out for delivery", "Delivered".	High	Sprint 2
Customer (Web user)	Order History	FOS 9	As a user, I want to view my past orders.	I can see a list of previous orders with details and repeat them if needed.	Medium	Sprint 3
Customer (Web user)	Ratings & Reviews	FOS 10	As a user, I want to rate and review restaurants/dishes after an order.	I can leave a rating and optional text review after receiving my food.	Medium	Sprint 3
Customer (Web user)	Offers and Discounts	FOS 11	As a user, I want to apply promo codes or use loyalty points while ordering.	I can enter promo codes or apply points, and see the discount reflected in the total.	Medium	Sprint 3
Customer (Web user)	Notifications	FOS 12	As a user, I want to receive notifications about my order and special deals.	I get email/SMS/app notifications for order status and promotions.	Low	Sprint 4
Customer (Web user)	Customer Support	FOS 13	As a user, I want to contact support if I face issues with my order.	I can chat with support, raise a ticket, or browse FAQs.	Low	Sprint 4