

## Project Design Phase-II Data Flow Diagram & User Stories

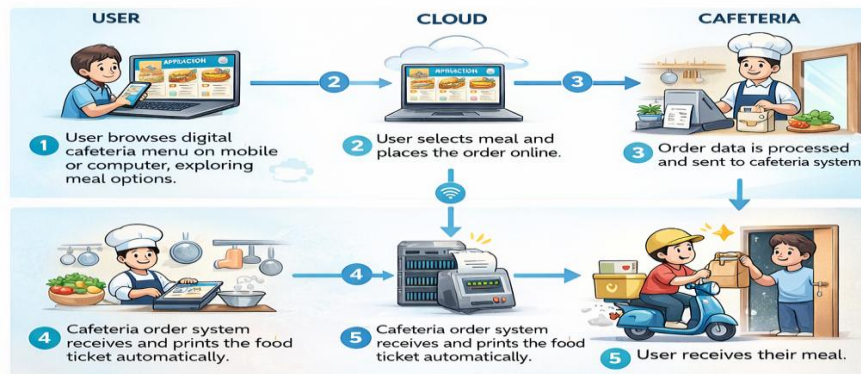
Date	19-02-2026
Team ID	LTVIP2026TMIDS66321
Project Name	Cafeteria menu display
Maximum Marks	4 Marks

### Data Flow Diagrams:

In the cafeteria menu display system, the cafeteria admin updates menu items, prices, and availability through a control interface, and the system processes and stores this information in a database. The digital menu display then retrieves the updated data in real time from the database. Finally, customers view the accurate and updated menu information on the cafeteria display screen, enabling faster and clearer decision-making.

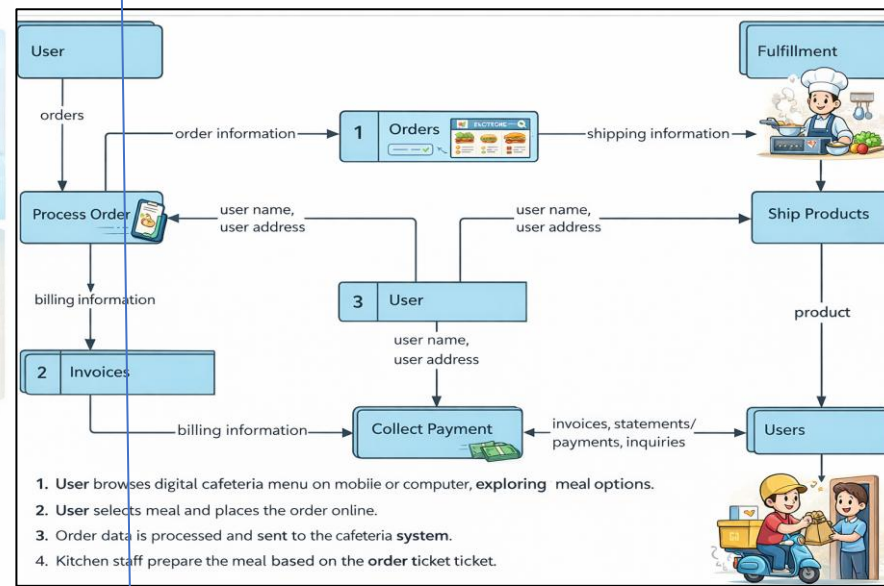
### Example: (Simplified)

#### Flow



1. User browses digital cafeteria menu on mobile or computer, exploring meal options.
2. User selects meal and places the order online.
3. Order data is processed and sent to the cafeteria system.
4. Cafeteria order system receives and prints the food ticket automatically.
5. Kitchen staff prepare the meal based on the order ticket.
6. Staff or a delivery driver delivers the food to the user.

### Example: DFD Level 0 (Industry Standard)



1. User browses digital cafeteria menu on mobile or computer, exploring meal options.
2. User selects meal and places the order online.
3. Order data is processed and sent to the cafeteria system.
4. Kitchen staff prepare the meal based on the order ticket.

## User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Menu viewing	USN-1	As a customer, I want to view the daily menu on a digital display so I know what is available.	Menu displays current date, meal items, and prices clearly.	High	Sprint-1
Customer	Dietary info	USN-2	As a customer, I want to see an allergen and calorie info for each item to make healthy choices.	Icons for vegan, gluten-free and calorie counts are visible next to items.	Medium	Sprint-1
Cafeteria staff	Menu Management	USN-3	As a staff member, I want to update the menu in real-time if an item runs out.	Staff can mark items as sold out via a mobile or web interface.	High	Sprint-1
Cafeteria staff	Scheduling	USN-4	As a staff member, I want to schedule menus for the entire week in advance.	System allows inputting and saving a distinct menu for Mon-Fri.	Medium	Sprint-2
Admin	System config	USN-5	As an admin, I want to customize the display theme and layout to match branding.	Admin can change colours, logos, and font sizes through the dashboard.	Low	Sprint-2
Customer	Wait times	USN-6	As a customer, I want to see estimated wait times for different food stations.	Real-time wait estimates are displayed based on current order volume.	medium	Sprint-3
Customer	Menu interaction	USN-7	As a customer, I want to scan a QR code on the display to view the menu on my phone.	A dynamic QR code is generated on screen, scanning it opens the current live menu URL.	High	Sprint-2
Customer	Feedback	USN-8	As a customer, I want to rate a meal directly on the display or via phone to share my preference.	System captures 1-5 star ratings and optional text comments for each dish.	Low	Sprint-3
Customer	Accessibility	USN-9	As a visually impaired user, I want the digital menu to have high contrast mode options.	A physical button or touch icon toggles high contrast/large text mode on the screen.	High	Sprint-2
Kitchen staff	Specials/promos	USN-10	As a manager, I want to highlight "chef's specials" with animations to increase sales	Admin can toggle a "Highlight" flag that add a pulsing border or badge to specific items.	Medium	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	Analytics	USN-11	As a admin, I want to see which menu items were viewed the most to plan future menus.	Dashboard provides a report on "Menu clicks" or "QR scans" per item.	Medium	Sprint-3
Administrator	Hardware control	USN-12	As a admin, I want to schedule the display to turn off automatically after cafeteria hours.	A "Sleep/Wake" timer allows setting specific hours for the display hardware to save energy.	Low	Sprint-3