

REQUIREMENT ANALYSIS PHASE

Data Flow Diagram

Date	28 June 2025
Team ID	LTVIP2025TMID20832
Project Name	Cafeteria Menu Display Using Service now
Maximum Marks	4 Marks

Data Flow Diagram : Cafeteria Menu Display Using serviceNow

Data Flow Diagram (DFD) for the Cafeteria Menu Display System using ServiceNow. We'll begin with a Level 0 (Context-Level) DFD, which shows the system at a high level, followed by a Level 1 DFD for more detail.

1. External Entities (Actors)

Entities that interact with the system but are *outside* of it:

- **Cafeteria Staff** ○ Inputs and updates menu data.
 - Schedules menu publishing.
- **Employees (End Users)** ○ View daily/weekly menus. ○ Filter by dietary preference.
 - Subscribe to notifications.
- **System Administrator** (optional)
 - Manages system configuration and user roles.

2. Processes

Core functions performed by the system:

Process Name	Description
Enter/Update Menu	Cafeteria staff adds or edits menu items.
Schedule Menu Publishing	Menus are scheduled for auto-publishing.
View Menu	Employees access the current menu via portal or app.
Subscribe for Alerts	Employees select dietary or meal preferences for notifications.

Send Notifications System sends alerts when menus are published or changed.

Process Name **Description**

Store Feedback (optional) Employees submit ratings/comments on meals.

3. Data Stores

Repositories where information is held:

Data Store **Contents**

Menu Database Menu items, dates, categories, dietary tags

User Preferences Subscription data (e.g., vegetarian alerts)

Notification Queue Messages scheduled to be sent

Feedback Logs (optional) Employee comments, ratings

4. Data Flows

Arrows that represent the movement of data:

Flow From → To **Example Data**

Cafeteria Staff → Enter Menu {Date: June 30, Meal: Pasta, Tag: Vegetarian}

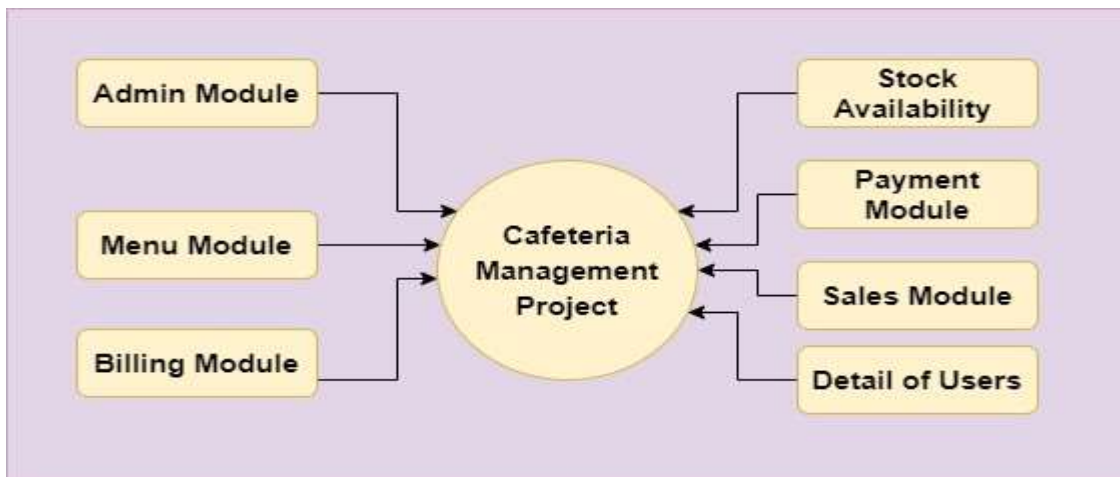
Schedule Menu → Menu DB {Publish Date: July 1}

Employees → View Menu Menu Request: {Day: Today, Type: Lunch}

Subscribe Preferences → User DB {UserID: 123, Filter: Vegan}

System → Notification Engine → User "Today's vegetarian menu is now live!"

Diagram :



Explanation:

- Cafeteria Staff interact with the system to input, edit, or schedule menu data.
- Employees (end users) view menus, filter by preference, or subscribe to notifications.
- ServiceNow acts as the central system handling data storage, workflows, and UI.