

Project Design Phase-II

Data Flow Diagram & User Stories

Date	28 June 2025
Team ID	LTVIP2025TMID47715
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau
Maximum Marks	4 Marks

Data Flow Diagrams:

The Data Flow Diagram (DFD) for our project shows how student dietary data is collected, processed, and visualized.

We gather raw data from sources like student surveys, cafeteria logs, and nutrition databases. This data is cleaned and organized using Excel or Google Sheets.

Next, the data is imported into Tableau Desktop, where we create interactive dashboards and visual stories about student food habits and health patterns.

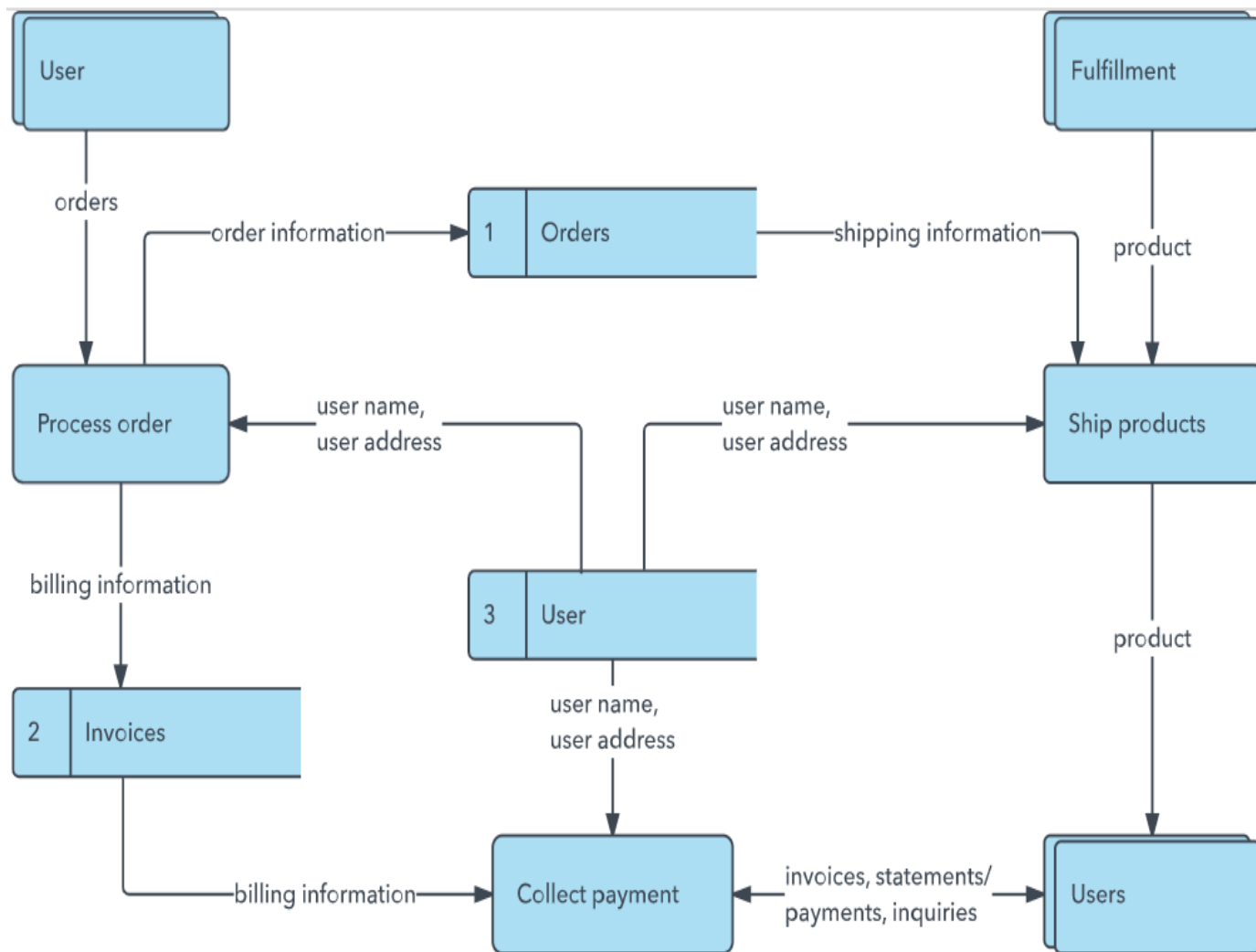
These visualizations are then published on Tableau Public and embedded into a web interface using HTML/CSS, allowing easy access for students and college staff.

The DFD clearly shows the connection between data sources, tools, and users, making the system easier to understand and implement.

From Tableau Public, the visual components can be embedded into a web application or student portal using HTML, CSS, or Bootstrap, allowing students and institutions to explore the insights without needing Tableau software installed.

The DFD outlines all these key components—data sources, processing stages, visualization tools, and end-user access points—showing how they are interconnected.

This visual flow makes the project architecture clear and supports effective communication between technical teams, college administrators, and student users.



User Stories – College Food Choices Visualization Project

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Student (Web user)	Diet Tracking Dashboard	USN-1	As a student, I can view my food intake patterns in a dashboard.	I can see visual summaries of my weekly meals and nutrient breakdown	High	Sprint-1
	Healthy Food Suggestions	USN-2	As a student, I can get healthy food recommendations based on my diet data.	I can view personalized suggestions on the dashboard	High	Sprint-2
	Food Category Filtering	USN-3	As a student, I can filter food items by type, calorie range, or nutrition level	Filters apply and update charts/dashboards correctly	Medium	Sprint-2
	Visual Storyboard	USN-4	As a student, I can view visual stories about college food trends and health outcomes	I can see narrative visuals embedded in the dashboard	High	Sprint-2
	Web Access	USN-5	As a student, I can access the dashboard through a public webpage	I can access the dashboard without needing Tableau installed	High	Sprint-1
Admin (College Staff)	Data Upload and Updates	USN-6	As an admin, I can upload and update student food intake or survey data	Data updates reflect live in Tableau dashboards	High	Sprint-2
Developer	Dashboard Integration	USN-7	As a developer, I can embed Tableau dashboards into the college portal	Dashboards load across devices and maintain interactive features	Medium	Sprint-2