**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 23 June 2025 |
| Team ID | LTVIP2025TMID48490 |
| Project Name | **Comprehensive Analysis and Dietary Strategies with Tableau** |
| Maximum Marks | 4 Marks |

**Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. For this project, the DFD illustrates how dietary data is collected, analysed, and visualized through Tableau for insights and recommendations.

**Example (Simplified):**  
**Entities:**

* User (Mobile/Web)
* Admin
* External Data Sources (Nutrition APIs, Medical Databases)

**Processes:**

1. User Registration/Login
2. Food Logging & Health Goals Entry
3. Data Analysis Engine
4. Visualization & Report Generation

**Data Stores:**

* User Profiles
* Food & Nutritional Logs
* Analysis Results
* Admin Dashboard Logs

**User Stories**

| **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance Criteria** | **Priority** | **Release** |
| --- | --- | --- | --- | --- | --- | --- |
| User | Registration | USN-1 | As a user, I can register on the platform using email and password. | Successful login after registration. | High | Sprint-1 |
|  |  | USN-2 | As a user, I receive a confirmation email after registration. | Email with confirmation link is received. | High | Sprint-1 |
|  |  | USN-3 | As a user, I can register using Google. | Successful dashboard access via Google login. | Medium | Sprint-2 |
| Entry | Dietary Data | USN-4 | As a user, I can log my meals and snacks including ingredients and quantities. | Logs appear in the user dashboard with nutritional breakdown. | High | Sprint-1 |
|  | Visualization | USN-5 | As a user, I can view graphs and dashboards about my nutrient intake over time. | Graphs load accurately on the dashboard. | High | Sprint-2 |
|  | Personalized Insights | USN-6 | As a user, I receive custom dietary suggestions based on my history. | Tips or alerts appear post-meal logs or weekly summaries. | Medium | Sprint-3 |
| Admin | User Management | USN-7 | As an admin, I can view all user logs and flag anomalies or inactive users. | Admin dashboard shows filtered user activity. | High | Sprint-2 |
|  | Data Source Sync | USN-8 | As an admin, I can connect or update external data sources like nutrition databases. | Sync logs confirm completion and reflect updated values. | Medium | Sprint-3 |