**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID52122 |
| Project Name | Comprehensive Analysis and Dietary Strategies with Tableau |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Dietary Data Entry | Manual Meal Logging Auto-suggestions from Food Database Meal Photo Upload (optional) |
| FR-4 | Visualization & Insights Dashboard | Nutrient Breakdown Graphs Personalized Recommendations Weekly/Monthly Trends Chart |
| FR-5 | User Profile Management | Update Personal Info (Name, Age, Goals) Set Dietary Preferences (e.g., Vegetarian, Keto) Set Health Objectives (e.g., Weight Loss) |
| FR-6 | Admin & Analytics Panel | View Aggregated User Trends Filter Activity Logs by Date/Region Manage User Access & Feedback |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The system should offer an intuitive and clean interface across web and mobile, ensuring users of all technical levels can log meals and view insights easily. |
| NFR-2 | **Security** | User data must be securely stored and transmitted using encryption protocols; authentication mechanisms like OAuth and multi-factor login should be in place. |
| NFR-3 | **Reliability** | The platform should operate continuously without failures, with automated backups and health checks to ensure stability. |
| NFR-4 | **Performance** | The dashboards and visualizations should load in under 3 seconds, even with large datasets or filters applied. |
| NFR-5 | **Availability** | The system should maintain 99.9% uptime to ensure users and admins can access insights anytime, especially during active food-logging hours. |
| NFR-6 | **Scalability** | The solution should support seamless scaling as the user base grows, allowing integration with more data sources and expansion to new geographic regions. |