

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Functional Requirements:

Following are the functional requirements of the proposed solution.

Functional Requirements

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|--|---|
| FR-1 |  Risk Factor Dashboard | Displays risk factors like cholesterol, blood pressure, BMI, and lifestyle habits. Uses dynamic filters for drill-down analysis. |
| FR-2 |  Risk Scoring Model | Calculates heart disease risk scores using machine learning models and visualizes risk categories (low, moderate, high). |
| FR-3 |  Trend & History Dashboard | Shows historical trends of heart health metrics (e.g., cholesterol levels over time) to track progress. |
| FR-4 |  Recommendations & Tips | Provides personalized recommendations to reduce heart disease risk based on user data analysis. |
| FR-5 |  Comparative Analysis Dashboard | Allows users to compare their heart health data against averages for age, sex, or region. |
| FR-6 |  Alerts & Notifications | Sends real-time alerts and reminders for important health checkups or risky conditions. |
| FR-6 |  Story-Based Dashboard Navigation | Sequential story view explaining Apple's performance journey with narrative captions. |

Non-functional Requirements:

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

Non-Functional Requirements

| NFR No. | Non-Functional Requirement | Description |
|---------|--|---|
| NFR-1 |  Risk Factor Dashboard | The system must process user inputs and display results within 3–5 seconds. |
| NFR-2 |  Risk Scoring Model | The system should handle an increasing volume of health data efficiently. |
| NFR-3 |  Device Responsiveness | Should provide an optimal viewing and interactive experience on desktops, tablets, and s. |
| NFR-4 |  Performance | Dashboards must be easy to interpret, with a clear and user-friendly design. |
| NFR-5 |  Usability | Use a color palette and font style suitable for all users, including those with visual impairments. |
| NFR-6 |  Data Accuracy | Analyzed health insights must be accurate and verified against source data. |
| NFR-6 |  Alerts & Notifications | Sends real-time alerts and reminders for important health checkups or risky conditions. |

