**Project Design Phase-II**

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

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| --- | --- |
| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID30148 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| FR-1 | Symptom Input Interface | User can input health symptoms or metrics |
|  |  | Input fields for parameters like BP, temp, age, etc. |
| FR-2 | Data Processing | Preprocessing of user input |
|  |  | Handling of missing or invalid inputs |
| FR-3 | Health Prediction Module | Predict health condition using AI/ML model |
|  |  | Model loaded via backend (Flask or API) |
| FR-4 | Output Display | Display prediction/result to user |
|  |  | Display suggestions or precautions |
| FR-5 | Admin Dataset Handling | Upload/update datasets for training |
|  |  | Trigger model retraining (optional) |
| FR-6 | User Interaction History | Store & retrieve user prediction history (local or DB-based) |

**Non-functional Requirements:**

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

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | Usability | Interface should be simple, user-friendly, and responsive |
| NFR-2 | Security | Data must be handled securely (especially health-related info) |
| NFR-3 | Reliability | The model should return consistent and accurate predictions |
| NFR-4 | Performance | Responses should be fast even under multiple user requests |
| NFR-5 | Availability | System should be available > 95% during working hours |
| NFR-6 | Scalability | System should handle more users or data if project expands |