**Project Design Phase-II**

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

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID31912 |
| Project Name | Health AI: Intelligent Healthcare Assistant Using IBM Granite |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| **ID** | **Requirement** | **Description** |
| --- | --- | --- |
| FR01 | Multilingual Input Support | System should accept health queries in multiple languages (e.g., Hindi) |
| FR02 | Translation Layer | Input must be translated to English before being passed to the AI model |
| FR03 | Symptom-to-Condition Prediction | Accept symptoms and return potential conditions based on AI inference |
| FR04 | Disease Encyclopedia | Provide detailed explanation of diseases entered by the user |
| FR05 | Home Remedy Suggestion | Suggest home remedies based on common conditions |
| FR06 | Medication Info | Return general medication guidance (non-prescriptive) |
| FR07 | Empathetic Health Chat | Chat interface for open-ended health-related Q&A with AI |
| FR08 | User Interface (Gradio or React) | UI should include tab navigation, input boxes, and result panels |
| FR09 | Quick AI Response | Output should be delivered within 5–6 seconds |

**Non-functional Requirements:**

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

| **ID** | **Requirement** | **Description** |
| --- | --- | --- |
| NFR01 | Platform Independence | Application should work in any modern browser (mobile/desktop) |
| NFR02 | Accessibility | Interface should support screen readers and clean tab-based layout |
| NFR03 | Performance | Model responses should be under 6 seconds for standard queries |
| NFR04 | Security | No user data should be stored (stateless API) |
| NFR05 | Scalability | Can be deployed on Hugging Face or Streamlit with minimal scaling |