**Project Design Phase-II**

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

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| Date | 31 January 2025 |
| Team ID | LTVIP2025TMID32140 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite |
| 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 |
| FR-2 | User Login | - Login through Form  - Session Handling |
| FR-3 | Symptom Identifier | - Enter symptoms and get disease prediction |
| FR-4 | |  | | --- | |  |  |  | | --- | | Home Remedies | | - Enter disease name to receive AI-suggested home remedies |
| FR-5 | Chatbot Interface | - Conversational chatbot for health Q&A  - Voice input support |
| FR-6 | Image Upload (Prototype) | - Upload images for future AI diagnosis |
| FR-7 | |  | | --- | |  |  |  | | --- | | Help Section | | - Read FAQs and app usage guidance |

**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** | Simple Gradio interface with tooltips and clear inputs |
| NFR-2 | **Security** | User data handled in-memory, limited exposure; future scope includes Firebase |
| NFR-3 | **Reliability** | Model provides consistent predictions for similar symptom input |
| NFR-4 | **Performance** | Model response time within 5 seconds under normal load |
| NFR-5 | **Availability** | |  | | --- | |  |  |  | | --- | | App runs on Google Colab; always available with internet access | |
| NFR-6 | **Scalability** | Extendable to backend APIs, multilingual support, and database integration |