**Project Design Phase-II**

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

|  |  |
| --- | --- |
| Date | 31 January 2025 |
| Team ID | LTVIP2025TMID59924 |
| 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 | **User Access** | Users can sign up, log in, and manage their profile securely. |
| FR-2 | Patient Chat | Users can ask health-related questions and receive friendly, helpful answers. |
| FR-3 | Disease Prediction | Users can input symptoms to get possible health conditions and suggestions. |
| FR-4 | Treatment Plans | The system gives users personalized treatment plans based on their condition. |
| FR-5 | Health Analytics | Users can view their health data trends (like heart rate, BP) in visual form. |
| FR-6 | Data Handling | The system keeps user health information private and secure at all times. |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The platform is designed to be simple and easy for users to navigate. |
| NFR-2 | **Security** | User data and system access are protected using strong encryption and secure login. |
| NFR-3 | **Reliability** | HealthAI works consistently without crashing, handles errors smoothly, and logs issues for quick fixes. |
| NFR-4 | **Performance** | The system responds quickly to user actions and queries. |
| NFR-5 | **Availability** | HealthAI is reliable and available for use most of the time (99.5% uptime). |
| NFR-6 | **Scalability** | The platform can handle many users and data without slowing down. |