**HealthAI: Intelligent Healthcare Assistant Using IBM Granite**

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| Date | 28 June2025 |
| Team ID | LTVIP2025TMID34448 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite |
| Maximum Marks | 4 Marks |

## ****HealthAI: Intelligent Healthcare Assistant Using IBM Granite****

### ****Functional Requirements****

The following are the functional requirements of the proposed HealthAI solution:

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| **FR-1** | User Registration | Registration through Form |
|  |  | Registration through Gmail |
|  |  | Registration through LinkedIn |
| **FR-2** | User Confirmation | Confirmation via Email |
|  |  | Confirmation via OTP |
| **FR-3** | Symptom Checker | Input symptoms via text or voice |
|  |  | Receive AI-driven preliminary advice |
|  |  | View suggested next steps (e.g., consult specialist) |
| **FR-4** | Appointment Scheduling | Schedule appointments with doctors |
|  |  | Integration with external calendars |
|  |  | Notification and reminders |
| **FR-5** | Health Records Integration | Upload and store medical records |
|  |  | Retrieve health history |
|  |  | Share records securely with providers |
| **FR-6** | Personalized Health Insights | AI-generated insights from user data |
|  |  | Health trend analysis and reports |
|  |  | Lifestyle recommendations |
| **FR-7** | Chat with AI Assistant | Natural language query handling |
|  |  | 24/7 support for health-related queries |
|  |  | Escalation to human professional if needed |

### ****Non-Functional Requirements****

The following are the non-functional requirements for the HealthAI platform:

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| **NFR-1** | Usability | The system should offer an intuitive, user-friendly interface accessible to users of all ages and backgrounds. |
| **NFR-2** | Security | Must comply with HIPAA and other healthcare data standards, implementing secure data storage and communication. |
| **NFR-3** | Reliability | The system should ensure high reliability with minimal downtime, especially during critical healthcare queries. |
| **NFR-4** | Performance | The AI assistant must respond to user interactions within 2 seconds under normal load conditions. |
| **NFR-5** | Availability | System should maintain 99.9% uptime to ensure users can access services anytime. |
| **NFR-6** | Scalability | The architecture should support scaling to millions of users without degrading performance, utilizing IBM Granite’s robust capabilities. |