**Project Design Phase-II**

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

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| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID36168 |
| 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 / Task)** |
| **FR‑1** | **User Registration** | • Registration through Email/Password form |
|  |  | • Registration via Gmail (OAuth login) |
|  |  | • Registration via LinkedIn (OAuth login) |
| **FR‑2** | **User Confirmation** | • Send confirmation via email |
|  |  | • Confirmation via OTP (one-time passcode) |
| **FR‑3** | **Symptom Input** | • Submit symptoms via text input |
|  |  | • Upload images (e.g., rash photos) |
| **FR‑4** | **Conversational Advice** | • Chat interface via Gradio + IBM Watson Assistant |
|  |  | • Provide top‑3 possible conditions with next‑step guidance |
| **FR‑5** | **Wellness Tips & Remedies** | • Personalized advice based on age, gender, lifestyle |
|  |  | • Home remedy suggestions for specified conditions |
| **FR‑6** | **Reminders & Notifications** | • Create/edit/delete reminders |
|  |  | • Send reminder alerts via email or in‑app notifications |
| **FR‑7** | **User Profile Management** | • View and update user details |
|  |  | • Manage linkages with Google/LinkedIn |

**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** | Intuitive and user-friendly, allowing users to onboard and perform primary tasks within 3 minutes |
| NFR-2 | **Security** | Ensure confidentiality, integrity, and secure access to sensitive user data |
| NFR-3 | **Reliability** | Maintain continuous, error-resistant operation with minimal downtime (e.g., MTBF ≥ 30 days) |
| NFR-4 | **Performance** | |  | | --- | |  | | Provide fast response (≤ 2 seconds) and support 50+ concurrent user requests | |
| NFR-5 | **Availability** | Ensure high system uptime (>= 99.9%) through redundancy and automatic failover |
| NFR-6 | **Scalability** | Support growth in user base and usage without degrading performance |