Solution Requirements (Functional & Non-functional)

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Project Name: HealthAI: Intelligent Healthcare Assistant

# Maximum Marks: 2 Marks Functional Requirements:

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
| --- | --- | --- |
| FR-1 | User Interaction | Patient Chat, Health Analytics |
| FR-2 | AI-based Assistance | Disease Prediction, Treatment Plan Generation |
| FR-3 | Data Visualization | Display of health metrics using interactive charts |
| FR-4 | Session Management | Temporary stateful interactions for each user session |

# Non-functional Requirements:

| FR No. | Non-Functional Requirement | Description |
| --- | --- | --- |
| NFR-1 | Usability | Intuitive Streamlit interface for easy interaction. |
| NFR-2 | Security | Secure API key handling using environment variables. |
| NFR-3 | Reliability | Stable integration with IBM Watson ML APIs. |
| NFR-4 | Performance | Fast response through local processing and minimal dependencies. |
| NFR-5 | Availability | Application available locally; future-ready for cloud deployment. |
| NFR-6 | Scalability | Scalable through IBM Cloud Foundry or containerization. |