# Project Design Phase Solution Architecture

|  |  |
| --- | --- |
| Date | 26 June2025 |
| Team ID | LTVIP2025TMID31972 |
| Project Name | Health AI:Intelligent Healthcare Assistance using IBM Granite |
| Maximum Marks | 4 Marks |

**Solution Architecture Overview**

HealthAI’s architecture bridges the gap between healthcare accessibility challenges and AI-driven technology solutions. It leverages IBM Watson’s robust ecosystem to deliver accurate, scalable, and user-friendly medical assistance.

**Goals of the Architecture:**

1. Best Tech Solution: IBM Watson Machine Learning + Generative AI (Granite-13b-instruct-v2) for personalized healthcare insights.
2. Stakeholder Clarity: Streamlit-based UI for seamless user interaction; secure API integrations for data flow.
3. Feature Roadmap: Modular design supporting Disease Prediction, Treatment Plans, Health Analytics, and Patient Chat.
4. Delivery Specifications: Cloud-native (IBM Cloud), HIPAA-compliant data handling, and scalable microservices.

**A diagram of a company

AI-generated content may be incorrect.**

**References**

1. [**IBM Watson Documentation**](https://cloud.ibm.com/docs/watson)
2. [**Streamlit for Healthcare Apps**](https://streamlit.io/use-cases/healthcare)