

**Project Design Phase-I**  
**Solution Architecture**

Date	2 NOVEMBER 2023
Team ID	592049
Project Name	PREDICTING SKIN LUMPY DISEASE
Maximum Marks	4 Marks

**Solution Architecture:**

The solution architecture for the skin lumpy disease prediction project comprises a multi-faceted approach. It begins with the ingestion and preprocessing of diverse medical data, followed by advanced feature engineering techniques applied to both imaging and clinical information. The core component is a machine learning model, trained with cross-validation, providing predictions that are integrated seamlessly into healthcare systems through API interfaces. A user-friendly interface facilitates interaction for healthcare professionals, emphasizing interpretability. Continuous improvement is ensured through a feedback loop, accommodating updates based on real-world data. Security measures and compliance with healthcare regulations are prioritized, while scalability is achieved through cloud infrastructure. Monitoring, logging, and comprehensive documentation round out the architecture, ensuring a robust, user-centric, and evolving solution.

**Solution Architecture Diagram:**

