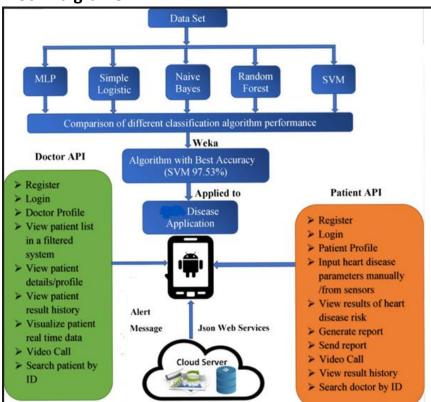
Date	27 October 2023	
Team ID	Team-592629	
Project Name	Project - Disease Prediction Using Machine	
	Learning	
Maximum Marks	4 Marks	

Technical Architecture

• Table-1:Components & Technologies:

S.No	Component	Description	Technology
1	User Interface	How user interacts with application I.e Web page	HTML, CSS, JavaScript / Angular Js / React Js/Python
2	Application Logic-1	Logic for the main process in the application	Python(app.py) /ML model deployment
3	Application Logic-2	Speech-to-Text service for audio to text	IBM Watson STT service
4	Application Logic-3	Chatbot for user interaction	IBM Watson Assistant
5	Database	Data storage and management	MySQL/NOSQL/MongoDb
6	Cloud Database	Cloud-based database service for scalability	IBM Cloudant
7	File Storage	File storage for application requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8	External API-1 (doctor api)	External API for fetching doctor information	IBM API
9	External API-1 (Patient api)	External API for fetching Patient information	IBM API
10	Machine Learning Model	Machine learning models for disease prediction	Random Forest, K- Nearest Neighbors (KNN),SVM
11	Infrastructure (Server / Cloud)	Application deployment on local system or cloud	Local Server Configuration, Cloud Foundry, Kubernetes, etc.

• Block Daigrame:



• Table-2: Application Characteristics:

S.NO	characteristics	Description	Technology
1	Open-Source Frameworks	List the open- source frameworks used	Python, Scikit-learn (for machine learning)
2	Security Implementations	List all the security / access controls implemented,use of firewalls etc.	SHA-256, Encryption, IAM Controls, Access Control Lists (ACLs), OWASP Best Practices
3	Scalable Architecture	Justify the scalability of architecture	Microservices, Load Balancers, (3-tier, Micro-services) Kubernetes, Cloud-Native Technologies
4	Availability	Justify the availability of application	Load Balancers, Distributed Servers, (e.g., use of load balancers, High Availability Architectures

5 Performance	Design considerations for application	Caching, Content Delivery Networks (CDNs performance (requests per second, use of Request Optimization, Efficient Algorithms cache, use of CDNs)
---------------	---	--