Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	13 May 2023
Team ID	NM2023TMID00069
Project Name	Project – Covid Vision: Advanced Covid-19 Detection from Lung x-rays with Machine Learning or Deep Learnings

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Example: Advanced Covid-19 Detection from Lung x-rays with Machine Learning or Deep Learnings

Guidelines:

Include all the processes (As an application logic / Technology Block)
Provide infrastructural demarcation (Local / Cloud)
Indicate external interfaces (third party API's etc.)
Indicate Data Storage components / services
Indicate interface to machine learning models (if applicable)
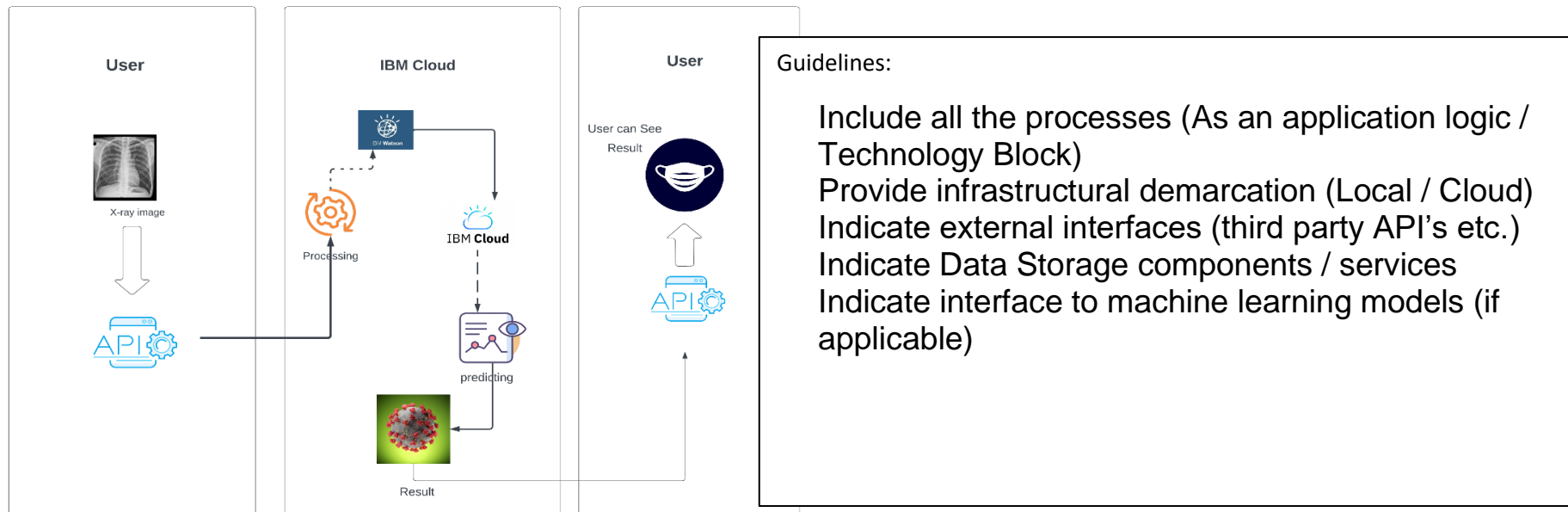
S.No	Component	Description	Technology
1.	User Interface	Web UI, Mobile App.	HTML, CSS, JavaScript
2.	Application Logic-1	User can only Load the x-ray scan	image
3.	Application Logic-2	It will process the image	IBM Watson STT service
4.	Application Logic-3	It's give result to the x-ray scan	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	IBM Cloud
6.	Cloud Database	Database Service on Cloud	IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Deep Learning Model	X-ray Scan, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local and online.

Table-1 : Components & Technologies

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. it is secure it implemented in IBM cloud
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	We can use this app and desktop
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	It can availability is free and we can access any time
5.	Performance	It's give 99% percent accurate result, and it perform very well.	It give good result and also predict another some disease also.