PROJECT DESIGN PHASE II TECHNOLOGY STACK(ARCHITECTURE & STACK)

Date	12 November 2022	
Team ID	PNT2022TMID43224	
Project Name	lot based smart crop protection for agriculture	
Maximum Marks	4 Marks	

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interfacts with	HTML,CSS, JavaScript/Angular
		application . e.g, Web UI,Mobile	Js/ Read Js etc.
		App,Chatbot etc.	
2.	Application Logic-1	Logic for process in the appliction	Java/Python
3.	Application Logic-2	Logic for process in the appliction	IBM Watson STT service
4.	Application Logic-3	Logic for process in the appliction	IBM Watson Assistant
5.	Database	Data Tybe,Configurations etc.	MySQL,NoSQL,etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2,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	IBM Weather API,etc.
		the application	
9.	External API-2	Purpose of External API used in	Aadhar API,etc.
		the application	

10.	Machine Learning	Purpose of Machine Learning	Object Recognition Model,etc.
	Model	Model	
11.	Infrastructure(Server/	Application Deploment on Local	Local,Cloud Fonudary,
' ' '	Cloud)	System/Cloud	Kubernetes,etc.
	olouu)	Local Server Configuration:	rabemetes,ets.
		Cloud Server Configuration:	
		Gloud Gerver Gormguration.	

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technolgy of Opensource framework
2.	Security implementations	List all the security/access controls implemented,use of firewalls etc.	e.g. SHA-256,Encryptions, IAM Controls,OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3- tier,Microservices)	Technolgy used
4.	Availability	Justify the availability of application (e.g.use of load balancers, distributed servers etc.)	Technolgy used
5.	Performance	Design consideration for the performance of the application (number of requests per sec,use of Cache,use of CDN's) etc.	Technolgy used

FLOW:

