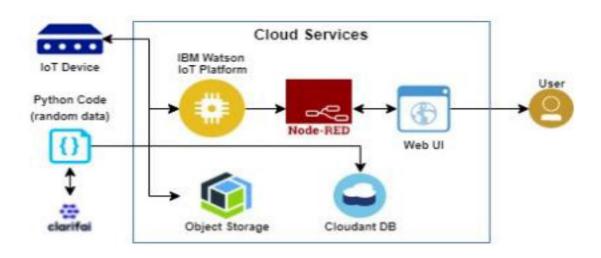
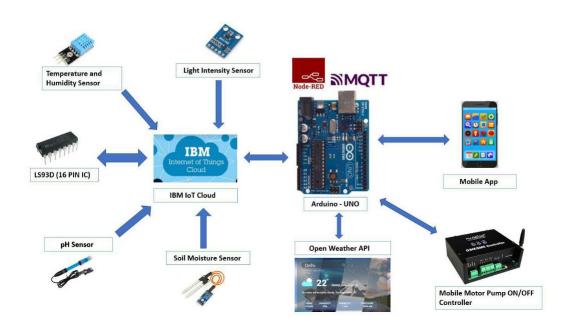
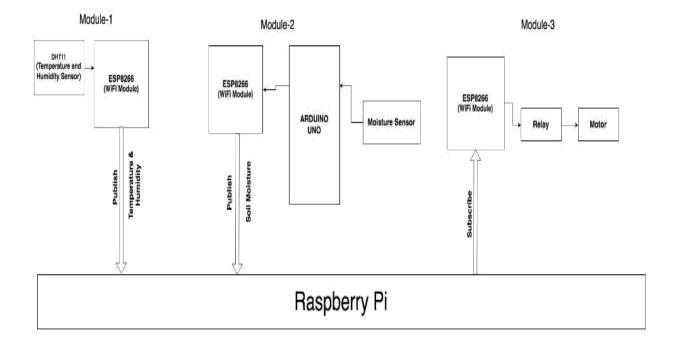
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	15 October 2022		
Team ID	PNT2022TMID49683		
Project Name	Project - IOT based smart crop protection for		
	agriculture		
Maximum Marks	4 Marks		







Block Diagram

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 interacts with application	HTML, CSS, JavaScript /
1.	Oser Interface	**	Angular Js / React Js etc.
		e.g.	Aligular Js / React Js etc.
	Amplication Tools 1	Web UI, Mobile App, Chatbot etc.	T /D /I
2.	Application Logic-1	Logic for a process in the application	Java / Python
2	Annuli andian Tania 2		TD 6 111
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic 2	T: - C :- (1 1: 1: (1 1: (1 1: 1: (1 1: (1 1: 1: (1 1: 1: (1 1: 1: (1 1: 1: (1 1: 1: (1 1: 1: 1: (1 1: 1: 1: (1 1: 1: 1: 1: (1 1:	IDM Water A seistant
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Tema Configurations at	MayCOL NoCOL ato
3.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
0.	Cioud Database	Database Service on Cloud	iBivi DB2, iBivi Cioudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other
		<u> </u>	Storage Service or Local
			Filesystem
8.	External API-1	Purpose of External API used in the	IBM Weather API, etc.
		application	
9.	External API-2	Purpose of External API used in the	Aadhar API, etc.
		application	
10	Machine Learning Model	Dumasa of Mashina Lagurina Madal	Object Descention Model
10	Wiodei	Purpose of Machine Learning Model	Object Recognition Model,
11	Infrastructure (Server /	Application Deployment on Local	etc. Local, Cloud Foundry,
	Cloud)	System / Cloud	Kubernetes, etc.
		Local Server Configuration:	Tracements, etc.
		Cloud Server Configuration:	

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

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