## Project Design Phase-IITechnologyStack(Architecture&Stack)

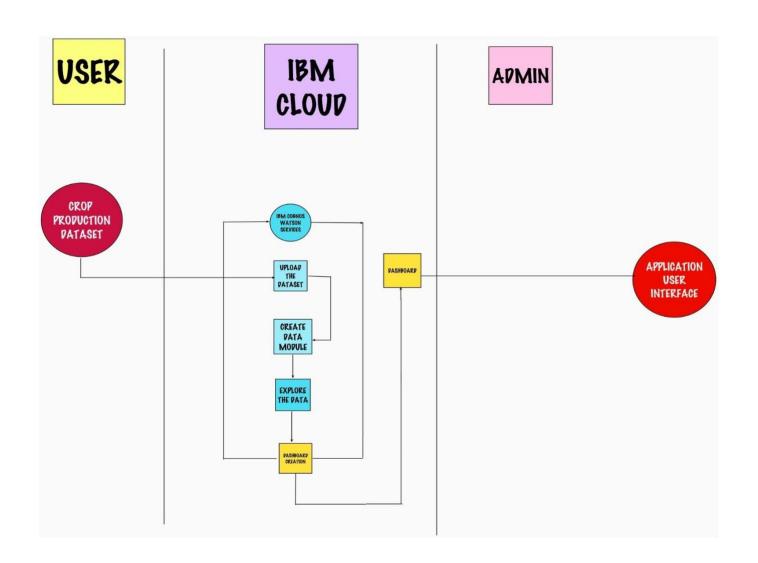
Date	03October2022	
TeamID	PNT2022TMID52468	
ProjectName Project- EstimatetheCropYieldusingData		
	Analytics	
MaximumMarks	4Marks	

## TechnicalArchitecture:

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

## Guidelines:

- Include allthe processes(As anapplicationlogic/TechnologyBl ock)
- 2. Provideinfrastructuraldemarcatio n(Local/Cloud)



S.No	Component	Description	Technology
1.	UserInterface	How user interacts with application e.g.WebUI,Mobile App,Chatbotetc.	HTML, CSS, JavaScript / Angular Js /ReactJsetc.
2.	ApplicationLogic-1	Logic foraprocessinthe application	Java /Python
3.	ApplicationLogic-2	Logic foraprocessinthe application	IBMWatsonSTTservice
4.	ApplicationLogic-3	Logic foraprocessinthe application	IBMWatsonAssistant
5.	Database	DataType,Configurationsetc.	MySQL, NoSQL,etc.
6.	CloudDatabase	DatabaseServiceonCloud	IBMDB2,IBMCloudantetc.
7.	FileStorage	Filestoragerequirements	IBM Block Storage or Other StorageServiceorLocalFilesystem
8.	ExternalAPI-1	PurposeofExternalAPlusedintheapplication	IBMWeatherAPI,etc.
9.	ExternalAPI-2	PurposeofExternalAPlusedintheapplication	AadharAPI,etc.
10.	MachineLearningModel	PurposeofMachine LearningModel	ObjectRecognitionModel, etc.
11.	Infrastructure(Server/Cloud)	Application Deployment on Local System / CloudLocalServerConfiguration: CloudServerConfiguration:	Local, CloudFoundry, Kubernetes, etc.

## Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Listtheopen-sourceframeworksused	TechnologyofOpensourceframework
2.	SecurityImplementations	List all the security / access controls implemented, use of firewall setc.	e.g. SHA-256, Encryptions, IAMControls,OWASP etc.
3.	ScalableArchitecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used

S.No	Characteristics	Description	Technology
4.	Availability	Justifytheavailability ofapplication(e.g. useofloadbalancers, distributedserversetc.)	Technology used
5.	Performance	Design consideration for the performance of theapplication(number ofrequests persec,useof Cache,useofCDN's)etc.	Technology used