Project Design Phase-II TechnologyStack(Architecture&Stack)

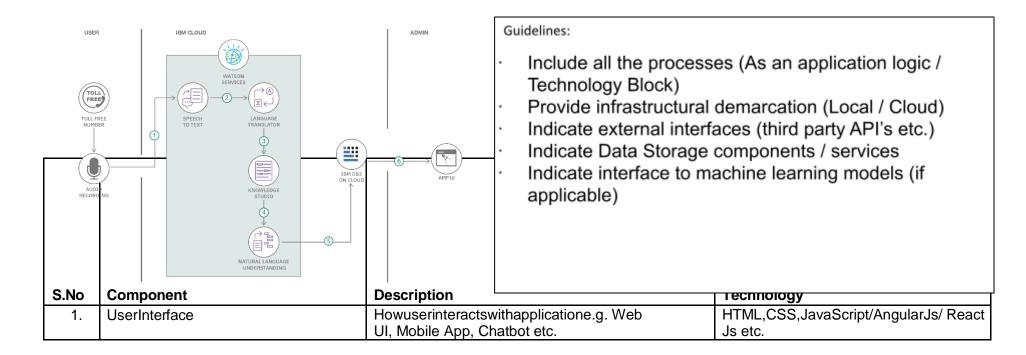
Date	31January 3035	
TeamID	LTVIP2025TMID50208	
ProjectName ToyCraftTales_Tableau'sVisionintoToyManufacturerDat		
MaximumMarks	4Marks	

TechnicalArchitecture:

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

Example:Orderprocessingduringpandemicsforofflinemode

Reference: https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/



2.	ApplicationLogic-1	Logicforaprocessintheapplication	Java/ Python
3.	ApplicationLogic-2	Logicforaprocessintheapplication	IBMWatsonSTTservice
4.	ApplicationLogic-3	Logicforaprocessintheapplication	IBMWatsonAssistant
5.	Database	DataType,Configurationsetc.	MySQL,NoSQL,etc.
6.	CloudDatabase	DatabaseServiceonCloud	IBMDB2,IBMCloudant etc.
7.	FileStorage	Filestoragerequirements	IBMBlockStorageorOtherStorage ServiceorLocalFilesystem
8.	ExternalAPI-1	PurposeofExternalAPlusedintheapplication	IBMWeatherAPI,etc.
9.	ExternalAPI-2	PurposeofExternalAPlusedintheapplication	AadharAPI,etc.
10.	MachineLearningModel	PurposeofMachineLearningModel	ObjectRecognitionModel,etc.
11.	Infrastructure(Server/Cloud)	ApplicationDeploymentonLocalSystem/Cloud Local Server Configuration: CloudServerConfiguration:	Local, CloudFoundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Listtheopen-sourceframeworksused	TechnologyofOpensourceframework
2.	SecurityImplementations	Listallthesecurity/accesscontrolsimplemented, use of firewalls etc.	e.g.SHA-256,Encryptions,IAM Controls, OWASP etc.
3.	ScalableArchitecture	Justifythescalabilityofarchitecture(3–tier, Micro-services)	Technologyused
4.	Availability	Justifytheavailabilityofapplication(e.g.useof load balancers, distributed servers etc.)	Technologyused

S.No	Characteristics	Description	Technology
5.	Performance	Designconsiderationfortheperformanceofthe application (number of requests per sec, use of Cache, use of CDN's) etc.	Technologyused

References:

https://c4model.com/

https://developer.ibm.com/patterns/online-order-processing-system-during-

pandemic/https://www.ibm.com/cloud/architecture

https://aws.amazon.com/architecture

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d