

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

Date	17October2022
TeamID	PNT2022TMID11759
ProjectName	SmartWasteManagementforMetropolitanCities
MaximumMarks	4Marks

TechnicalArchitecture:



Table-1:Components&Technologies:

S.No	Component	Description	Technology
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1.	UserInterface	WebUI,MobileApp.	HTML,CSS,JavaScript
2.	ApplicationLogic-1	Logicforaprocessintheapplication	Python
3.	ApplicationLogic-2	Logicforaprocessintheapplication	IBMWatsonSTTservice
4.	ApplicationLogic-3	Logicforaprocessintheapplication	IBMWatsonAssistant
5.	Database	Data Type,Configurationsetc.	MySQL,
6.	CloudDatabase	DatabaseServiceonCloud,tostoredata	IBMDB2,IBMCloudant
7.	FileStorage	Filestoragerequirements,Toretrievedata	IBMBlockStorage
8.	MachineLearningModel	Torecognizethethings	ObjectRecognitionModel
9.	Infrastructure(Server/Cloud)	LocalServerConfiguration:MAMP CloudServerConfiguration:CloudConfigServer	Local,CloudFoundry

Table-2:ApplicationCharacteristics:

S.N o	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Providespermissiontousethesourcecode	IBMCloud
2.	SecurityImplementations	Sendsalerttotheadminoncethebingetfilled	UI
3.	ScalableArchitecture	Ensuresthatproductaremadetoberecycledb ack	IBMWatsonPlatform
4.	Availability	Directsthetruckdriverstopre-decideroutes.	RealTimeGPS,CloudServer
5.	Performance	Measureddataissendtothecloud,Trashiscoll ectedbasedonthat.	IOT