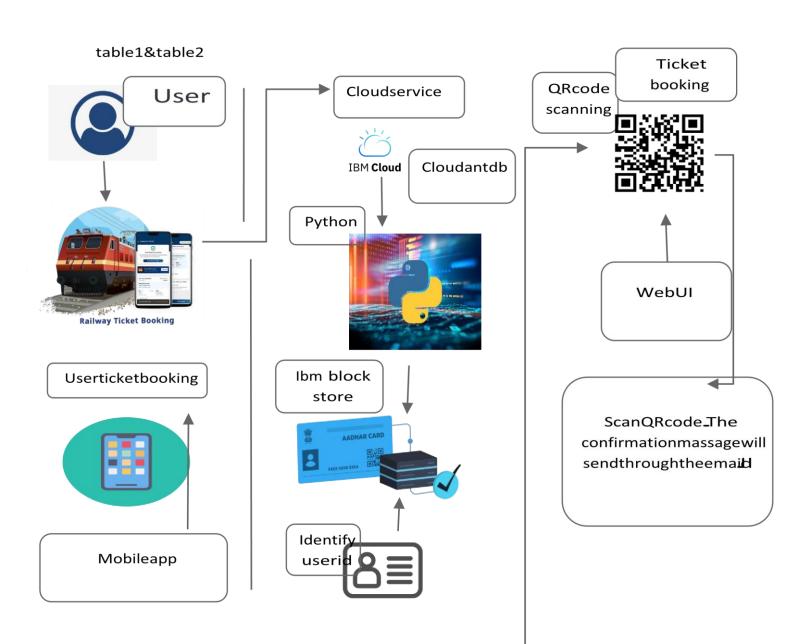
## ProjectDesignPhase-II

## TechnologyStack(Architecture&Stack)

Date	3 NOV 2022
TeamID	PNT2022TMID15168
Projectname	Smart solutions for railways
Maximum mark	4marks

## Technicalarchitecture:

The Deliverable shall include the architectural diagram as below and the information as per the action of the diagram and th



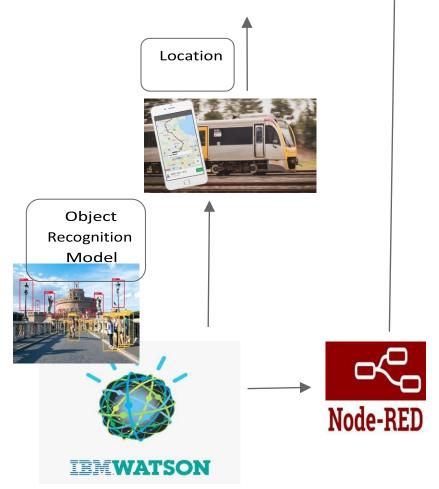


Table-1:Components&Technologies:

S.No	Components	Description	Technology
1	Userinterface	Theuserinteractwith applicationsarewebUI, mobilephone.1stuserwill beseetheapplicationlogin page.Ticketbookingon user.Theavailableintrains andseats.	HTML,CSS,Javascriptetc.
2	Application	Theapplicationwillprocess inthepythoncode. The loginpage programmed to use python. Use conversational language. Think aboutyour target customer and highlight features that will appeal to	Python
		thatcustomer.	

3	Clouddatabase	Usingtheclouddatabase cansavealotofstorage spaceondevices. With the helpofthecloudstore. User name, mobile number, email ID, photoonstore.	IBMCloudant  IBM Cloud
5	Filestorege	UserfilesonstoreIBM block.Manyuserfilesare stored.Peopleswill identifyingtheticket booking.Peoplewillshow thisfileonanytime.Block Storageisdesignedto protecttheintegrityofthe dataandmaintain availabilitythrough maintenanceeventsand unplannedfailures,and provideaconsistent performancebaseline.	IBMblockstore  AADHAR CARD  AMDRIAG CARD  AM
6	ExternalAPI	customerAPIprovidesa centralsourceofaccurate customerdatathatall operationalandanalytical systemscanaccessrather thanrelyingonpointtopointintegrationswith individualdatasources. CustomerAPIsare increasinglybeingusedto assemblenewcustomer experiencesandlaunchnew revenuemodels.	IBMweatherAPI

7	Machine	Amachinelearningmodelis	ObjectRecognition
		afile that has been trained	
	learningmodel	torecognizecertaintypesof	
		patterns. Youtrain a model	
		overasetofdata,providing	

		itanalgorithmthatitcan usetoreasonoverandlearn fromthosedata.	Model
8	Infrastructure (Server/Cloud)	UseruseofCloud configurationistheprocess ofsettinghardwareand softwaredetailsfor elementsofacloud environmenttoensurethat theycaninteroperateand communicate.	CLOUDFOUNDRY
			Cloudfoundary
9	GPSTracking	LiveLocationdetailsshared throughthecodetoshare thelocationinthewebsite	IBMWatsonService
S.	Characteristics	Description	Technology
No			
1	Open-Source Frameworks	Thecustomerusing frameworksareCSS, Backendframework,	Python, IBM cloudant DB

2	Security		Python,Cloudservice
	landa and telland	dataisencrypted,then	
	Implementations	ContinuousLocation	
		Tracking.Wellsecureofthis	
		implementation.	

## Table-2:ApplicationCharacteristics

3	Scalable Architecture	Thescannerandthecodes writtenarehighlyscalable whereanyimplementation canbedoneanytimeneeded	Python
4	Availability	Anytimeavailablesystem. Theticketcanbeverifiedby theticketcollectorfrom anywhere.thecustomereasy toreceivetheticket.	IBMLoadBalancer
5	Performance	thedetailsaregetstoredin thecloudthesystem.crash willnotaffectthedata.The datacanberetrievedfrom anywherewithascanner. AndtheGPSstatesthe exactlocationofthetrain.	DistributedServices,GPS Tracker