## ProjectDesignPhase-II

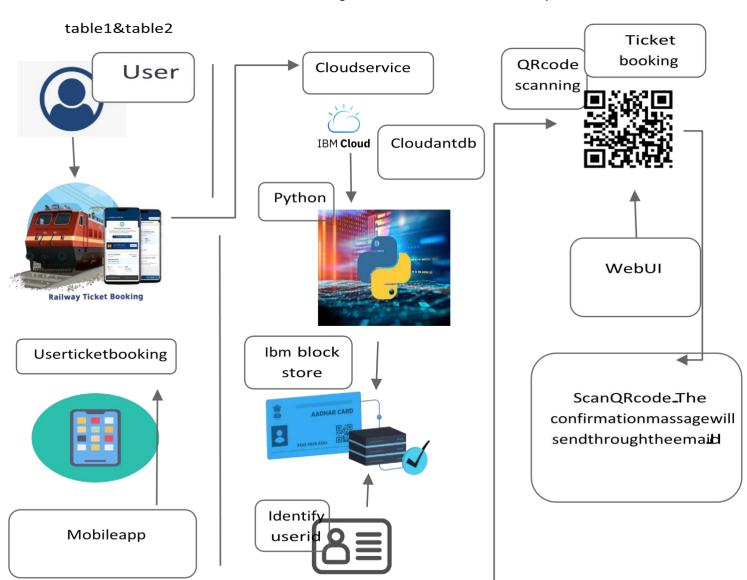
## Technology Stack (Architecture & Stack

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Date	19 NOVEMBER2022
TeamID	PNT2022TMID47138
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 the diagram and the diagram as the diagram and the diagram as the diagram and the diagram and the diagram as the diagram a



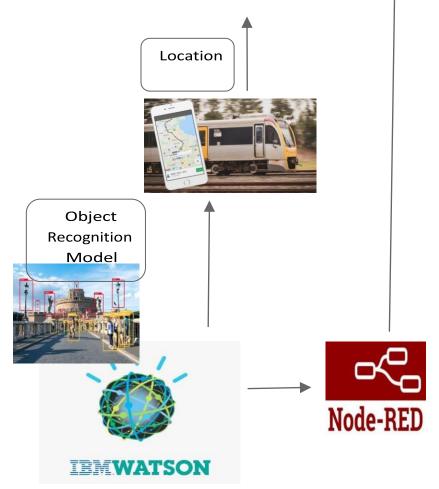


Table-1:Components&Technologies:

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 about your 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 <b>Cloud</b>
5	Filestorege	UserfilesonstoreIBM block.Manyuserfilesare stored.Peopleswill identifyingtheticket booking.Peoplewillshow thisfileonanytime.Block Storageisdesignedto protecttheintegrityofthe dataandmaintain availabilitythrough maintenanceeventsand unplannedfailures,and provideaconsistent performancebaseline.	IBMblockstore
6	ExternalAPI	customerAPIprovidesa centralsourceofaccurate customerdatathatall operationalandanalytical systemscanaccessrather thanrelyingonpointtopointintegrations with individualdatasources. CustomerAPIsare increasinglybeingusedto assemblenewcustomer experiencesandlaunchnew revenuemodels.	IBMweatherAPI

learningmodel	afilethathasbeentrained torecognizecertaintypesof patterns. Youtrainamodel	ObjectRecognition
	overaset of data, 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. No	Characteristics	Description	Technology
1	Open-Source Frameworks	Thecustomerusing frameworksareCSS, Backendframework,	Python,IBMcloudantDB

2	Security		Python,Cloudservice
	Implementations	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