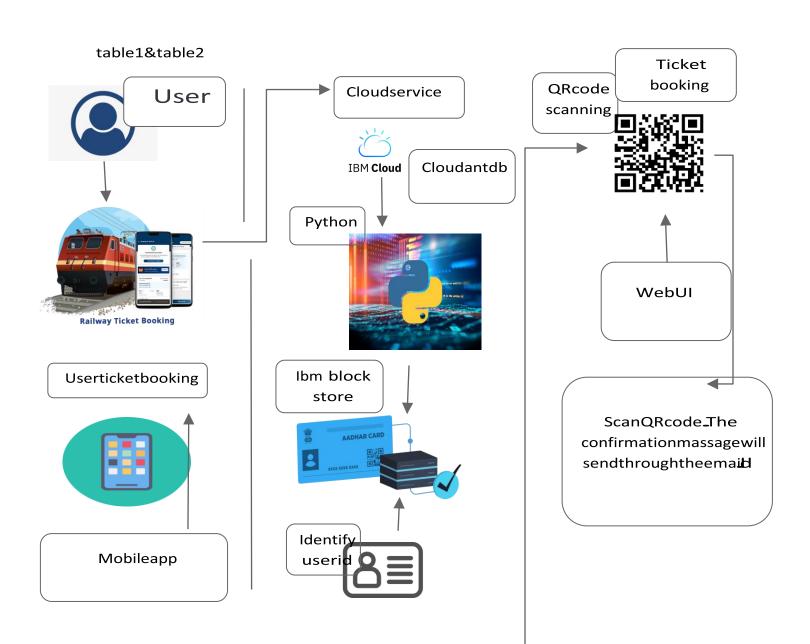
## ProjectDesignPhase-II

## TechnologyStack(Architecture&Stack)

Date	3 NOV 2022
TeamID	PNT2022TMID14902
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 and the diagram as the diagram and the d



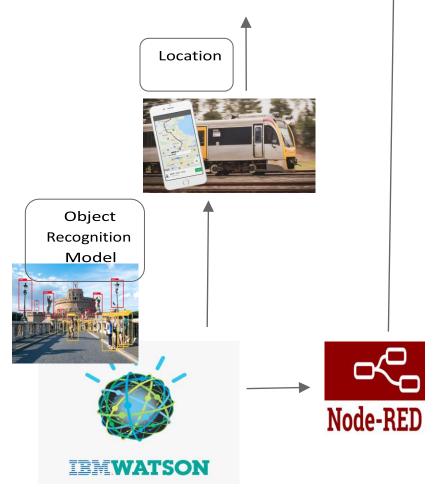


Table-1:Components&Technologies:

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 high light 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
6	ExternalAPI	customerAPIprovidesa centralsourceofaccurate customerdatathatall operationalandanalytical systemscanaccessrather thanrelyingonpoint- topointintegrationswith individualdatasources. CustomerAPIsare increasinglybeingusedto assemblenewcustomer experiencesandlaunchnew revenuemodels.	IBMweatherAPI
7	Machine learningmodel	Amachinelearningmodelis afilethathasbeentrained torecognizecertaintypesof patterns. Youtrainamodel overasetofdata, providing	ObjectRecognition

0		itanalgorithmthatitcan usetoreasonoverandlearn fromthosedata.	Model
8	(Server/Cloud)	UseruseofCloud configurationistheprocess ofsettinghardwareand softwaredetailsfor elementsofacloud environmenttoensurethat theycaninteroperateand communicate.	CLOUD FOUNDRY  Cloudfoundary
9	GPSTracking	LiveLocationdetailsshared throughthecodetoshare thelocationinthewebsite	IBMWatsonService

S. No	Characteristics	Description	Technology
1	Open-Source Frameworks	Thecustomerusing frameworksareCSS, Backendframework,	Python,IBMcloudantDB

<sup>2</sup> Security	Thecustomerwillentered	Python,Cloudservice
,	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