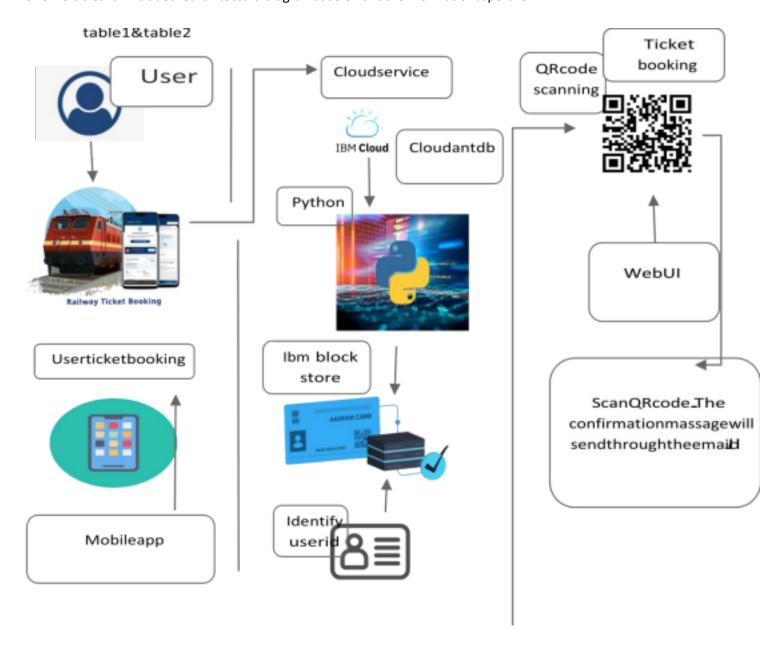
## ProjectDesignPhase-II

## TechnologyStack(Architecture&Stack)

TeamID	PNT2022TMID06025
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 information of the diagram and the diagram and







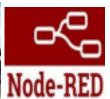




Table-1:Components&Technologies:

Table-1.Components& recimologies.			
S.N o	Components	Description	Technology
1	Userinterface	Theuserinteractwith applicationsarewebUI, mobilephone.1stuserwill beseetheapplicationlo gin page.Ticketbookingon user.Theavailableintrai ns andseats.	HTML,CSS,Javascripte tc.
2	Application	Theapplicationwillproce ss 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.Withthe helpofthecloudstore.User name,mobilenumber,email ID,photoonstore.	IBMCloudant
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 thanrelyingonpointtopointintegrationswi th individualdatasources. CustomerAPIsare increasinglybeingusedto assemblenewcustomer experiencesandlaunchnew revenuemodels.	IBMweatherAPI

7	Machine learningmodel	Amachinelearningmodelis afilethathasbeentrained torecognizecertaintypesof patterns. Youtrainamodel overasetofdata, providing	ObjectRecognition
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		itanalgorithmthatitcan usetoreasonoverandlea rn fromthosedata.	Model
8	Infrastructure (Server/Cloud)	UseruseofCloud configurationistheproce ss ofsettinghardwareand softwaredetailsfor elementsofacloud environmenttoensureth at theycaninteroperatean d communicate.	Cloudfoundary
9	GPSTracking	LiveLocationdetailsshar ed throughthecodetoshare thelocationinthewebsite	IBMWatsonService
S. No	Characteristics	Description	Technology
1	Open-Source Frameworks	Thecustomerusing frameworksareCSS, Backendframework,	Python,IBMcloudantDB
2	Security Implementations	Thecustomerwillentered dataisencrypted,then ContinuousLocation Tracking.Wellsecureofth is implementation.	Python,Cloudservice

Table-2:ApplicationCharacteristics:

1		
1		
1		
1		
1		
1		

3	Scalable Architecture	Thescannerandthecodes writtenarehighlyscalable whereanyimplementatio n canbedoneanytimeneed ed	Python
4	Availability	Anytimeavailablesyste m. Theticketcanbeverified by theticketcollectorfrom anywhere.thecustomerea sy toreceivetheticket.	IBMLoadBalancer
5	Performance	thedetailsaregetstoredin thecloudthesystem.cra sh willnotaffectthedata.Th e datacanberetrievedfrom anywherewithascanner. AndtheGPSstatesthe exactlocationofthetrain.	DistributedServices,GPS Tracker