SMART SOLUTIONS FOR RAILWAYS

A PROJECT REPORT

Submitted by

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1.INTRODUCTION

a.Project Overview

- A Web page is designedfor the publicwhere they can booktickets by seeing the available seats.
- ii. After booking the train, the person will get a QR code which has to be shown to the Ticket Collectorwhile boarding the train.
- iii. The ticketcollectors can scan the QR code to identify the personal details.
- iv. A GPS module is present in the trainto track it. The live status of the journeyis updated in the Web app continuously
- v. All the booking details of the customers will be stored in the database with a unique ID and they can be retrieved back whenthe Ticket Collectorscans the QR Code.

b.Purpose

The Purposeof our Project is

- To reduce the work load of the user and also the use of paper.
- To enableonline Ticket Booking
- To track the live location of train

- To enable Automatic Ticket Verification system
- To reduce the work load of Travelling Ticket Examiner (TTE)

2.LITERATURE SURVEY

2.1. Existing Problem:

- ➤ Passengers who need to book traintickets have to follow a tedious procedure oget a ticket reserved.
- ➤ Theyhave to wait in the Ticket bookingcounter to do the reservation.
- ➤ Also the TTE has a heavy workload in processing all the paper documents in verifying a user's ticket.
- ➤ Publicusers wish to tracktheir train journeyto have a sophisticated travel.

2.2.References:

- ttps://www.ibm.com/blogs/internet-of-things/connected-trains-rail-travel/
- ☆ https://indianrailways.gov.in/railwayboard/uploads/directorate/secretary branches/IR Reforms/Innovation%20in%20Indian%20Railways%20.pdf
- ☆ Indian Railways Vision 2020 (Para 6.1 Reinventing Passenger Services with Change for a better tomorrow as the motto, Page8-9)
- ☆ Travel, Transportation & Hospitality page on www.tcs.com

- ☆ https://international-railway-saftey-council.com/about-us
- ☆ http://sts.hitachirsil.com/en/products-services/glossary

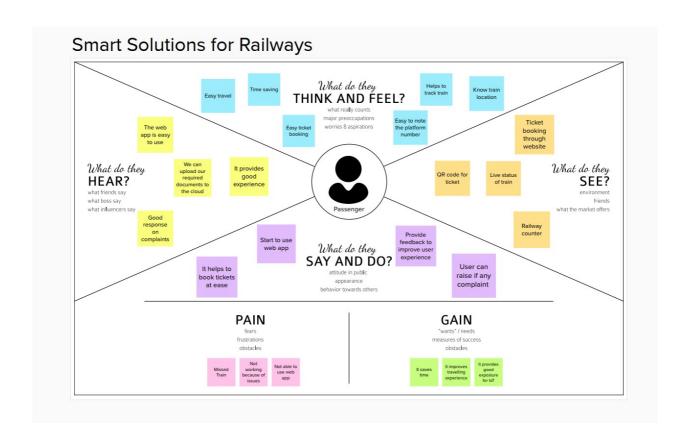
2.3 Problem Statement definition:

- Railway Passengers need a way to book their tickets easily without delay and tedious processso that the passengers getbenefits by saving their time and energy in travelling.
- Ticket checkersare in need of a Digitalverification system of passenger's ticketsto avoid huge use of pen and paper.
- Passengers need a platform to track the current locationand status of trains in order to avoid anxietyof fear of missing thetrain.

3.IDEATION & PROPOSED SOLUTION



3.1 EMPATHY MAP CANVAS



3.3 Ideation & Brainstorming

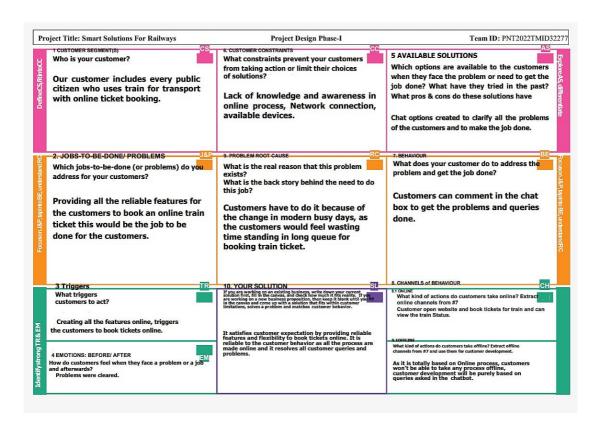


3.3 Proposed System

S.No.	Parameter	Description			
1	Problem Statement (Problemtobe solved)	How mightwe reduce the workload of the userand the useof paper whilebooking tickets?			
		How to ease the workof verifying the Tickets which is usuallydone by TTE thereby reducing thepaperwork?			
<u>2</u>	Idea / Solution description	A Web UI is designed to enable online ticket booking and a QR code is generated for the user who has booked the ticket to verify it with Travelling Ticket Examiner (TTE)which is done usingCloud Service.			
<u>3</u>	Novelty / Uniqueness	User friendly interface (Web Page) to book the ticket.			
		2. Unique QR code for each user to verify their tickets.			
		3. GPS Module to track thelocation of Train and live statusis updated in the Web app.			
4	Social Impact / Customer	This model reduces the time consuming ticketbooking by automating the process.			
	Satisfaction	2. TTE can easily verifythe details of the passenger using the QR code generated while booking the ticketwhichmay reduce theuse of paper work.			
		3. The location of the trainis updated periodically in the web app so customers can easily trackthe status of the trainwhich may help the customer to arrive on time.			
<u>5</u>	Business Model (RevenueModel)	1. This solution gives a feasibility to reduce the conventional ticket booking mechanism at counters which is tedious and time consuming, also the verification of the tickets is simplified. Since it also gives an additional traintracking method it will be more welcomed by the users.			
		2. This model helps businessmen and travellers to book the ticketseasily and it provides flexibility so customers willprefer this model which may increase the revenue of this model.			
		3. Selling a Product which enables onlinebooking platform and automatic verification system would fetch more revenues to the Organisation, alsothe Online Platform has to be			
		maintained continuously and so, thebusiness will sustain andcan be improved if required.			

6	Scalability of the Solution	★ We propose a solution which works on theSaaS(Software as a Service) cloud model wherein all
		necessities are deployed in the web browser whichgives an easy accessand also the cost is minimal whichgives a scaledsolution approach. The cloud is deployed as a public cloud model which gives a feasible access to upload passenger detailsand to retrieve data.
		★ Further a QR codeis generated to hold the uniquedata of user in cloud, and a GPS module is attached to Iot platform in order to monitor the train location which gives an additional tracking mechanism to ensure reliability

3.3 Problem Solutionfit



4. REQUIREMENT ANALYSIS

4.1 Functional requirement

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form
FR-2	User Confirmation	Confirmation via Email Confirmation via O i P
FR-3	User QR code generation	QR code is generated
FR-4	GPS tracker	Location is tracked

4.2 Non-Functional requirement

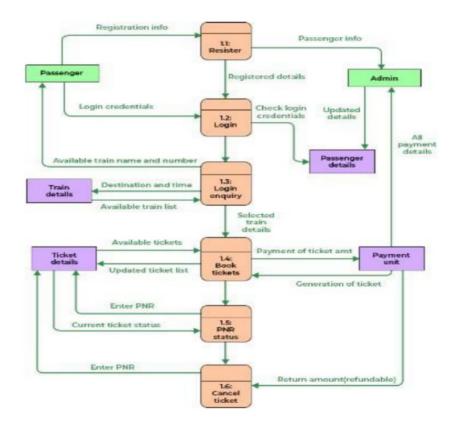
Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

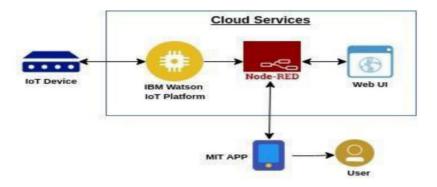
FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Users can navigate easil,
NFR-2	Security	The details are secured in the database
NFR-3	Reliability	Reliable to the users without any failure as it is not fixed to limited number of users
NFR-4	Performance	User-friendly
NFR-5	Availability	Available any time at the time of ease
NFR-6	Scalability	Support the users with their needs in reserving ticket and tracking the location.

5.PROJECT DESIGN

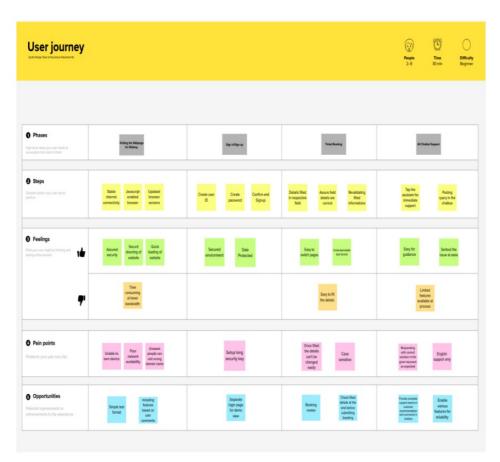
5.1 Data flow diagram



5.2 Solution and Technical Architecture



5.3 User Stories



6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

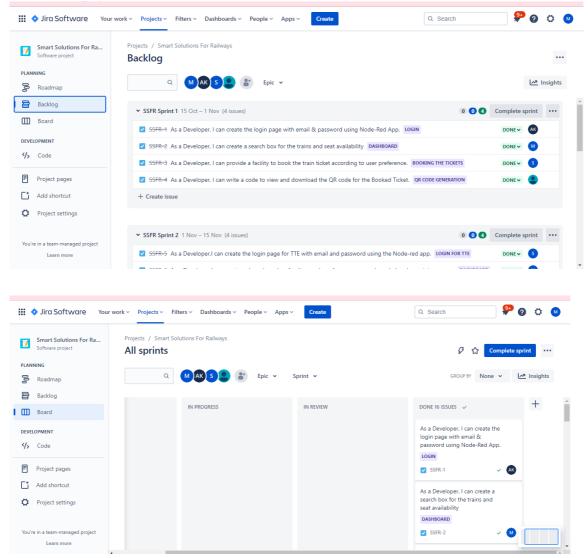
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Login	USN-1	As a Developer, I can create the login page with email & password using Node-Red App	2	Medium	Arunkumar
Sprint-1	Dashboard	USN-2	As a Developer, I can create a search box for the trains and seat availability.	6	High	Mahalakshmi
Sprint-1	Booking the Tickets	USN-3	As a Developer, I can provide a facility to bookthe train ticket according to user preference.	6	High	Sarmatha
Sprint-1	QR code Generation	USN-4	As a Developer, I can write a code to view and download the QR code for the Booked Ticket.	6	High	Yogeshwari
Sprint-2	Login for TTE	USN-5	As a Developer,I can create the login page for TTE with email and password using the Node- redapp.	6	High	Sarmatha
Sprint-2	Dashboard	USN-6	As a Developer, I can create a drop down box forthe number of passengers on boarded and remaining number of passengers yet to be boarded	6	High	Mahalakshmi
Sprint-2	Passenger Details	USN-7	As a developer, I can provide a feature to view thepassenger details which are stored in the Cloud and are retrieved and displayed in the webpage.	2	Medium	Arunkumar

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Ticket verification	USN-8	As a developer,I can provide a verification mechanism to check the integrity of QR code andthe passenger details.	6	High	Yogeshwari
Sprint-3	Collaboration	USN-9	As a developer, I will provide a smooth way tobook the ticket through a website and also to refund if the passenger cancels the ticket.	6	High	Mahalakshmi
Sprint-3	Verifying the passenger details	USN-10	As a developer, I will check whether the passengeris taking his/her journey with a proper confirmed ticket.	6	High	Sarmatha
Sprint-3	Identification of the passenger	USN-11	As a developer, I will make sure that the on-boarded passenger is not involved in any travelfraudulently.	2	Medium	Arunkumar
Sprint-3	Verifying the tickets	USN-12	As a developer, I will scan the QR code generated by python code to extract and verify the passengerdetails.	6	High	Yogeshwari
Sprint-4	Tracking webpage	USN-13	As a developer, I can create web page to viewtrain status using Node RED	6	High	Mahalakshmi
Sprint-4	Live location details	USN-14	As a developer I can extract details from IoT device using python code and IBM watson.	6	High	Yogeshwari
Sprint-4	Retrieving from cloud	USN-15	As a developer, I can upload the details to cloud and display it to user by connecting it with NodeRED application.	6	High	Sarmatha
Sprint-4	Sending updates	USN-16	As a passenger, I would like to receive updates over my train status during my journey via fastSMS or App notification.	2	Medium	Arunkumar

6.2 Sprint Delivery Schedule:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	07 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	10 Oct 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	15 Oct 2022

6.3 Reports from JIRA



7.CODING & SOLUTIONING

7.1 Feature 1

Train Ticket booking QR code generation

Description:

In feature 1 we have designed a webpage using node red to book the train ticket. The user can login in into the webpage using username and password. After successful login, the user wil be redirected to the Ticket booking form. In this form ,users are asked to fill the personal details and the jouney details. After entering the appropriate details the confirmation message is shown and QR code is generated.

HOME PAGE:



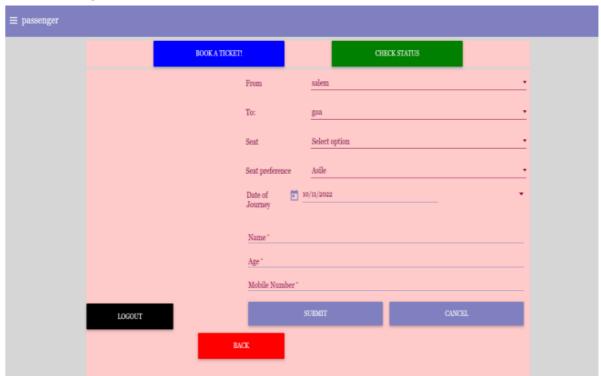
Sign up page

≡ Home				
	LOGIN PAGE	NEW USER? SIGN UP		
	Sign Up			
	Choose a username *			
	Choose a password *			
	Enter your email address *			
	Enter your Phone Number			
	SUBM	IT CANCEL	L	

About

≡ Home			
	LOGIN PAGE	NEW USER? SIGN UP	ABOUT
	About		
	Book Easy Book Easy App helps you to book the ticket at your comfort zone and place. Our App breaks the usual way to book the train ticket. Beneficts of using our App Online Ticket Booking Automated Ticket verification Work Load reducction for user		

Ticket booking Form:

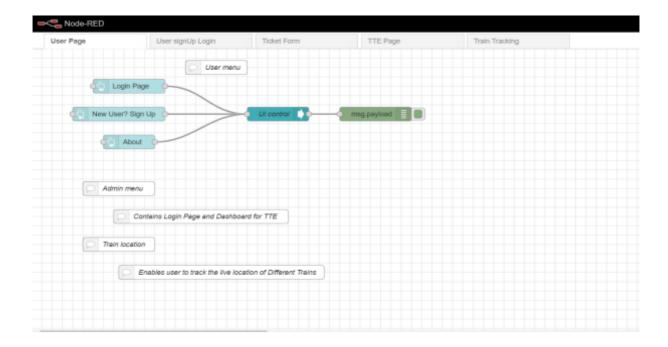


QR code Generation

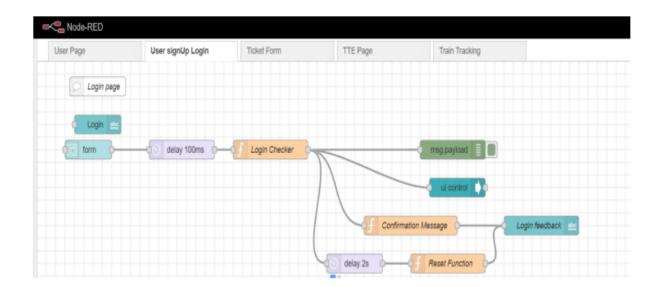


NODE RED FLOWS:

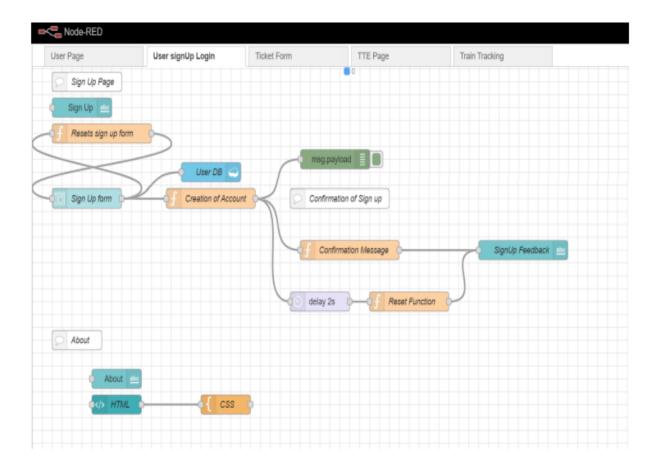
Home page



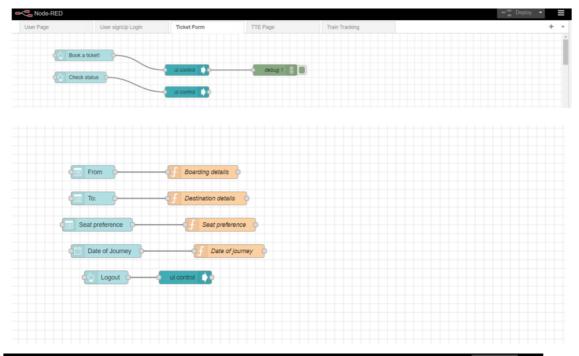
Login page

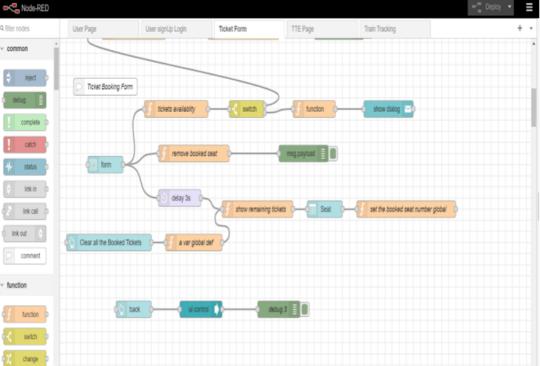


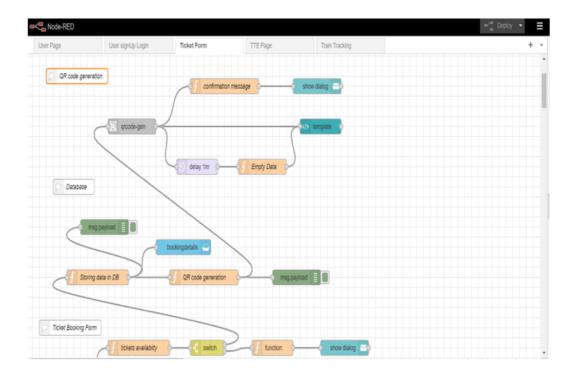
Sign up page



Ticket Booking Form







7.2 Feature 2

TICKET VERIFICATION AND TRAIN TRACKING

DESCRIPTION:

In this we have included a feature to verify the ticket by using the QR code scanner at TTE side and retrieve the passenger details from the Cloudant databaseto check the details of the passenger . If it is a valid QR code then the ticket is verified. For an invalidQRcode the pop up message is displayed " INVALID TICKET" . For Train tracking the current location statusof the train is displayed in the webpage. The users can easilyknow about the arrival anddeparture of the train .

TICKET VERIFICATION:



The 18 9st Debug Option Window Help

Pythom 3.7.0 (v3.7.0:1bf9cc5093, 3mm.27.2018, 04:59:51) [MSC v.1914.64 bit (AMD64)] on win32

Pythom 3.7.0 (v3.7.0:1bf9cc5093, 3mm.27.2018, 04:59:51) [MSC v.1914.64 bit (AMD64)] on win32

PREFART: C1/User's haningrace/besktop/last #ROJECTI_SUBMITTED WORK/project dev\QR_Code_Verification.py

2022-11-12.00:25:610,005 wistp.sdx.device.client.Device(lient INFO Commercial successfully: dirpresprictR_Reads:876543

('_idi': ''04468aa63020aa6446b4837155c4', '_rev': '1-ca8492746bfd50b15846f38c43c2cacf', payload': ('unique': '2022-11-12.09:25:01'

'Name': 'Rajkamali', 'Aga': 40, 'Mbolite': 7589125674', 'cennai', 'Centination': 'deintination': 'deinti

- a x

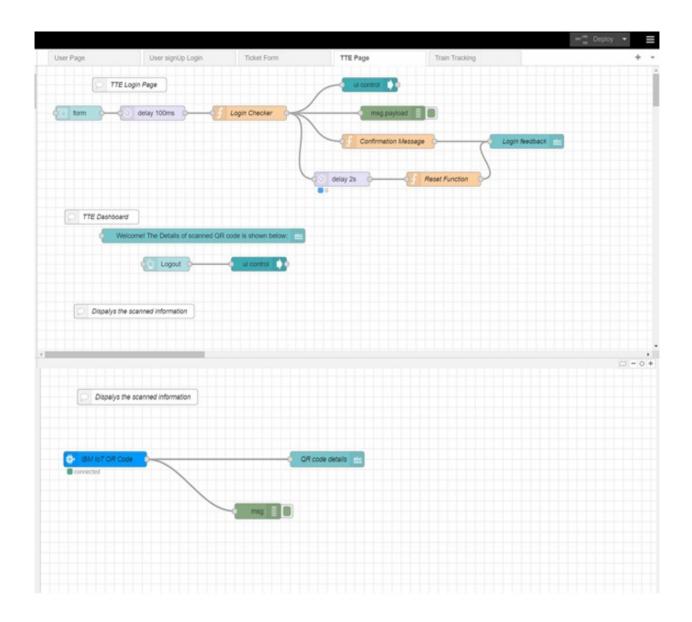
Python 3.7.0 Shell



Published data Successfully: %s {'Error': 'Not a Valid Ticket'}
Not a Valid Ticket



NODE RED FLOWS:



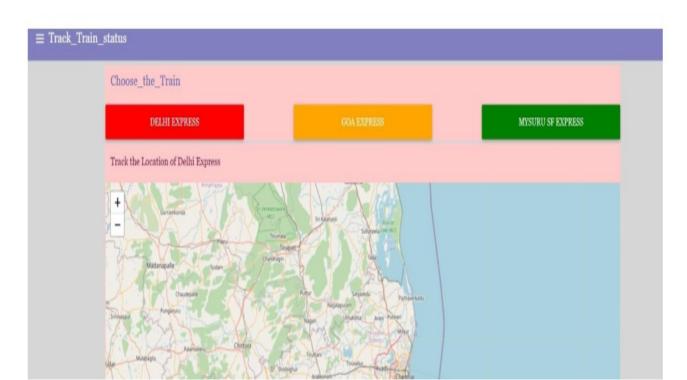
PYTHON CODE FOR TICKET VERIFICATION:

import cv2 s cv import numpy as np import time import pyzbar.pyzbar as pyzbar from ibmcloudant.cloudant_v1 import CloudantV1

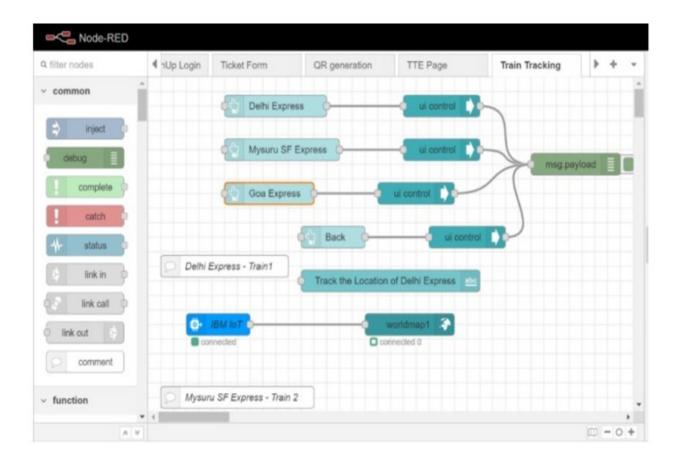
```
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator
import wiotp.sdk.device
authenticator=BasicAuthenticator('apikey-v2-
1w8tqt2prt3j7qz9d1rgrxhar3w9v43i2359u79ut5jb';86181a38eca19ae487f512b10aca0c80')
service=CloudantV1(authenticator=authenticator)
service.set_service_url('https://apikey-v2-
1w8tqt2prt3j7qz9d1rgrxhar3w9v43i2359u79ut5jb:86181a38eca19ae487f512b10aca0c80@
9163f25a10b8-4374-a8de-cb92e4357567-bluemix.cloudantnosqldb.appdomain.cloud')
cap = cv.VideoCapture(0)
font = cv.FONT_HERSHEY_PLAIN
if not cap.isOpened():
print("Cannot open camera")
exit()
myConfig = {
"identity" :{
"orgld":"ryc4pr",
"typeId": "QR_Reads",
"deviceId":"876543"
},
"auth":{
"token": "GGHvsi!XL-i7x0mC6B"
}
}
def myCommandCallback(cmd):
print("Message received fromIBM IoT Platform: %s" % cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None) client.connect()
def pub(data):
client.publishEvent(eventId = "status", msgFormat="json", data=response, qos=0,
onPublish=None)
print("Published data Successfully: %s",response)
print("\n")
while True:
ret, frame=cap.read()
decodedObjects = pyzbar.decode(frame)
if not ret:
print("Can't receive frame (stream end?). Exiting ...")
break
for obj in decodedObjects:
a=obj.data.decode('UTF-8')
cv.putText(frame, "Ticket", (50,50),font,2,
```

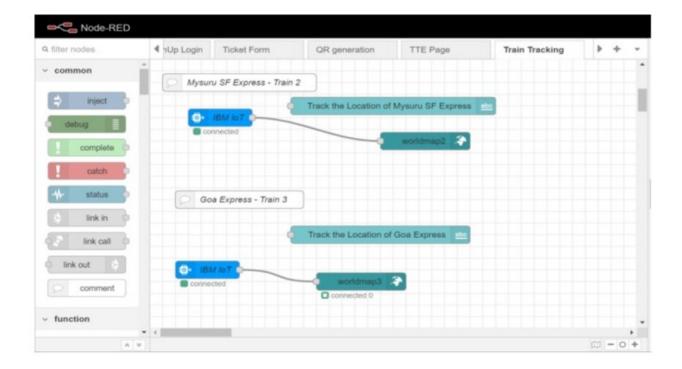
```
(255,0,0),3)
try:
response=service.get_document(
db='bookingdetails',
doc_id = a
) .get_result()
print(response)
print("\n\n")
pub(response)
time.sleep(5)
except Exception as e:
response={'Error':'Not a Valid Ticket'}
pub(response)
print("Not a Valid Ticket")
print("\n\n")
time.sleep(5)
cv.imshow("Frame" ,frame)
if cv.waitKey(1) & 0xFF == ord('q'):
break
client.commandCallback = myCommandCallback
cap.release()
cv.destroyAllWindows()
client.disconnect()
```

TRAIN TRACKING STATUS:

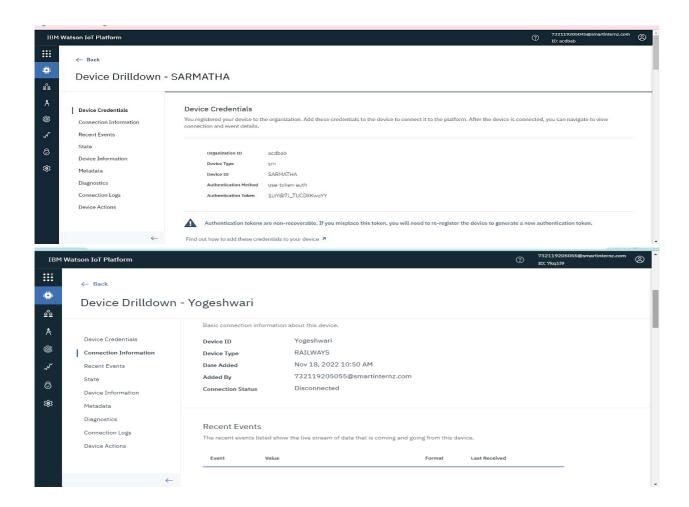


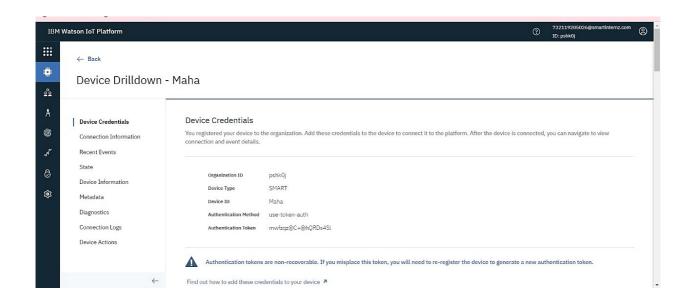
Node red flowfor train tracking:





IBM WatsonIOT device





Python codes for train tracking

```
import wiotp.sdk.deviceimport time
import randommyConfig = {
"identity": {"orgId": "ytluse",
"typeId":"2702", "deviceId":"12345"
},
"auth":{
"token":"O+n)Eh+INX0y3?rG!8"
}
def myCommandCallback(cmd):
print("Message receivedfromIBM IoT Platform:%s" % cmd.data['command'])m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)client.connect()
def pub(data):
client.publishEvent(eventId = "status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: %s",myData)
while True:
myData = {'name':'Delhi Express','lat':13.344279,'lon':80.214367}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':13.515254,'lon':80.093518}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':13.728799,'lon':80.005627}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':13.910160,'lon':79.906750}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':14.102035,'lon':79.851819}pub(myData)
```

```
time.sleep(3)
myData = {'name':'Delhi Express','lat':14.261807,'lon':79.862805}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':14.623537,'lon':79.950695}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':15.111987,'lon':79.994641}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':15.313413,'lon':80.005627}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':15.567568,'lon':80.104504}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':15.747405,'lon':80.269299
}
pub(myData)time.sleep(3)
myData = {'name':'Delhi Express','lat':15.821409,'lon':80.302258}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':15.927082,'lon':80.445080}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':16.022141,'lon':80.554943}
pub(myData)time.sleep(3)
myData = {'name':'Delhi Express','lat':17.033801,'lon':80.295512}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':18.383088,'lon':18.383088}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':19.074762,'lon':79.487698}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':20.179065,'lon':79.001439}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':21.306421,'lon':78.789356}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':22.518024,'lon':77.829404}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':23.264139,'lon':77.429333}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':24.509723,'lon':78.330212}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':25.668840,'lon':78.451062}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':26.177704,'lon':78.170910}pub(myData)
time.sleep(3)
myData = {'name':'Delhi Express','lat':27.505914,'lon':77.676526}
 pub(myData)time.sleep(3)
 myData = {'name':'Delhi Express','lat':28.302041,'lon':77.308484}pub(myData)
 time.sleep(3)
 client.commandCallback= myCommandCallbackclient.disconnect()
```

```
Train 2:
```

```
import wiotp.sdk.deviceimporttime
import randommyConfig = {
"identity": {"orgId": "ytluse",
"typeId":"train2", "deviceId":"mysore"
},
"auth":{
"token":"-BCOX+hMk?*@xc@AV9"
}
}
def myCommandCallback(cmd):
print("Message received fromIBMIoT Platform: %s"% cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)client.connect()
def pub(data):
client.publishEvent(eventId = "status", msgFormat="json", data=myData, gos=0, onPublish=None)
print("Published data Successfully: %s",myData)
while True:
myData = {'name':'Mysuru SF Express','lat':11.024938,'lon':76.982315}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':11.220325,'lon':77.570083}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':11.564960,'lon':77.993057}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':11.780142,'lon':78.037002}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.134824,'lon':78.130386}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.226105,'lon':78.091934}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.344187,'lon':78.037002}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.489034,'lon':78.009536}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.655239,'lon':77.866714}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.735622,'lon':77.756851}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.907020,'lon':77.696426}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.987323,'lon':77.646988}pub(myData)
```

```
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.955205,'lon':77.509659}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.665958,'lon':77.136123
pub(mvData)time.sleep(3)
myData = {'name':'Mysuru SF Express','lat':12.548022,'lon':76.921890}pub(myData)
time.sleep(3)
myData = {'name':'Mysuru SF Express', lat': 12.336809, lon': 76.644485} pub(myData)
time.sleep(3)
client.commandCallback = myCommandCallback
client.disconnect()
Train 3:
import wiotp.sdk.deviceimporttime
import randommyConfig = {
"identity": {"orgId": "ytluse",
"typeId":"2702", "deviceId":"678910"
},
"auth":{
"token":"4skuC*xkhDH&la(CUR"
}
}
def myCommandCallback(cmd):
print("Message received fromIBMIoT Platform: %s"% cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)client.connect()
def pub(data):
client.publishEvent(eventId = "status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: %s",myData)
while True:
myData = {'name':'Goa Express','lat':11.688572, 'lon':78.098877}pub(myData)
time.sleep(3)
myData = {'name':'Goa Express','lat':11.711433, 'lon':78.076905}pub(myData)
time.sleep(3)
myData = {'name':'Goa Express','lat':11.978226, 'lon':78.116730}pub(myData)
time.sleep(3)
myData = {'name':'Goa Express','lat':12.085676, 'lon': 78.119477}pub(myData)
time.sleep(3)
myData = {'name':'Goa Express','lat':12.402400, 'lon':78.023347}pub(myData)
time.sleep(3)
myData = {'name':'Goa Express','lat':12.884795, 'lon':77.707490}
```

pub(myData)time.sleep(3)

myData = {'name':'Goa Express','lat':13.018630,'lon':77.614106}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':13.334194, 'lon':77.086762}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':13.299448, 'lon':76.858796}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':13.344884,'lon': 76.205109}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':13.619985, 'lon':75.966157}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':13.974739, 'lon':76.119965}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':14.423398, 'lon':75.949677}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':14.922914, 'lon':75.389374}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':15.119216, 'lon':75.389374}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':15.449980, 'lon':74.406230}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':15.352006,'lon':74.307353}

pub(myData)time.sleep(3)

myData = {'name':'Goa Express','lat':15.314922, 'lon':74.218089}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':15.283131, 'lon':74.146678}pub(myData) time.sleep(3)

myData = {'name':'Goa Express','lat':15.276839, 'lon':74.129855}pub(myData) time.sleep(3)time.sleep(3)

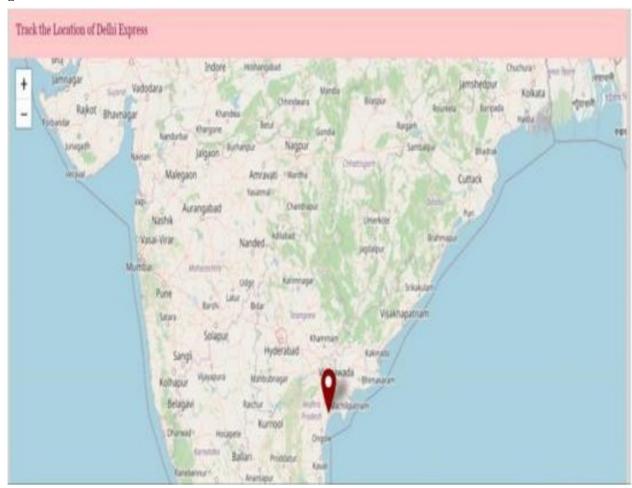
myData = {'name':'Goa Express','lat':15.282800, 'lon':74.125392}pub(myData) time.sleep(3)time.sleep(3)

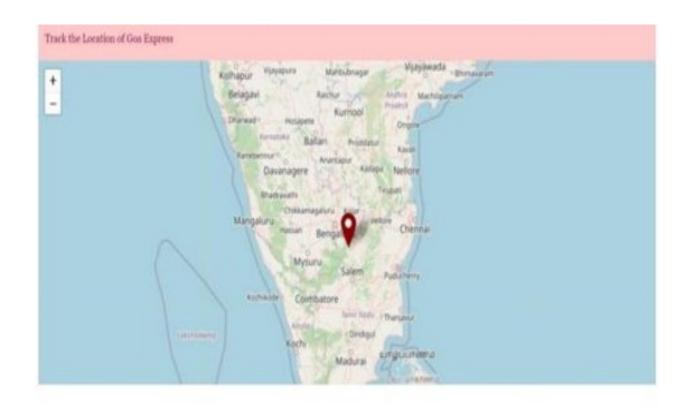
myData = {'name':'Goa Express','lat':15.296378,'lon':74.135692}pub(myData) time.sleep(3)

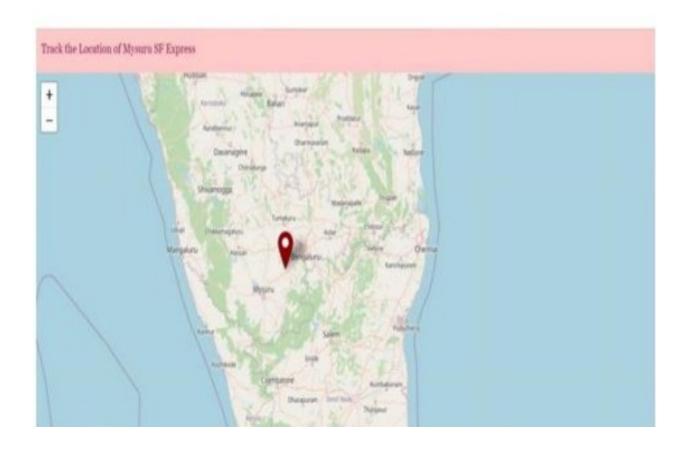
client.commandCallback= myCommandCallbackclient.disconnect()

TRAIN TRACKING PAGE

X

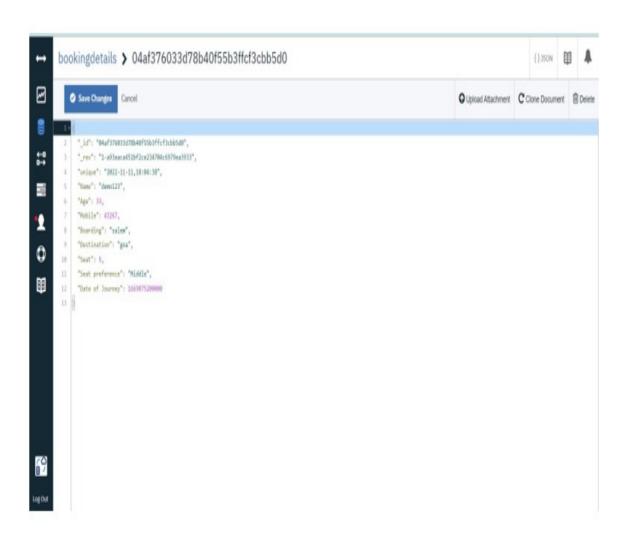






7.3.DATABASE SCHEMA





8.Testing

8.1 Testcase

Te	est case ID	Feature Type	Component	Test Scenario	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Connects	TC for Automation(Y/N)	BUG ID	Execute d By
Hom	кРаде_ТС_001	Functional	Home Page	Verify user is able to see the Login/Signup popup when user clicked on My account button	1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Singup popup displayed or not	www.bookonlinetickets	Login/Signup popup should display	Working as expected	Pass		N		Sarmatho C
Нопи	ePage_TC_002	UI	Home Page	Verify the UI elements in Login/Signup popup	Literar URL and click go 2. Click on My Account dropdown button 3. Verily loginifilingup popup with below UI clements: a.email text box b.password text box c.login button d. Meur cestomer? Create account link cleat possword? Recovery	www.bookealinetickets	Application should show below UII elements: a.cmuil text box b.password text box c.Login betton with orange colour d.New customer? Create account link c.Last password? Recovery password link	Working as expected	Fail	Steps are no clear to follow	Y	BUG-234	Arunkum:
Новы	dPage_TC_003	Functional	Home page	Verify user is able to log into application with Valid credentials		Username: chalan@ymail.com password: Testing123	User should navigate to user account homepage	Working as expected	Pass		N		Muhalake hmi M
Logir	inPage_TC_004	Functional	Login page	Verify user is able to log into application with laValid credentials		Username: cholam@gmail password: Testing[20]	Application should show "Incorrect email or password" validation message.	Working as expected	Pass		N		Yogeshw ari\$
5	Test case ID	Feature Type	Component	Test Scenario	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Connests '	C for Automation(Y/N)	BUG ID	d By
40	LoginPage_TC_OC	5 Functional	Login page	Verify user is able to log into application with InValid credentials	1.Eater URL (https://shopencer.com /) and click go 2.Click on My Account dropdown butten 3.Eater Valid username/email in Email text box 4.Eater lenalid password in password text box 5.Click on login butten	Username: dallum@gmail.com pszoword: Testingit20578666786876	Application should show "Incorrect small or password" validation message.	Working as expected	Pass		N		Sarmatha C
	LoginPage_TC_OC	l6 Functional	Login page	Verify user is able to log into application with InValid credentials	LEater URI (http://shopenzee.com/) and click go 2. Click on My Account dropdows button 3. Enter InValid username/email in Email text box 4. Eater Invalid password in password text box	Username: dalvim paseword: Testing/123678686786876	Application should show "Incorrect email or password" validation message.	Working as expected	Pass		N	1	Vlahalaks hmi M
11	Booking_TC_001	Functional	Booking	Verify on filling train details like From station, To station, Departure date, list of available trains are displayed	S.Click on login button Linea one and care you C. Click on my Account Dropdown button S. Enter the boarding Station 4. Enter the destination Station 5. Click the button	1. From: Myzore 2. To : Gos	Application should show the boarding and destination details.	Working as expected	Pass		N	Ye	geshwari S
	Booking_TC_000	Functional	Booking	Verify that users can search for trains by name, from-to station for checking their status and timings	2. Click on my Account Dropdows button 3. Enter the boarding Station 4. Enter the destination Station	1. From: Mysore 2. To : Gos 3. Train : Mysore Express	User filled the details about the boarding and destination details and with the train name	Working as expected	Pass		N	٨	runkumar P
5	Test case ID Booking_TC_00	Feature Type	Component	Verify that users can search for trains by name, from-to station for checking their status and timings	Steps To Execute 1. Enter URL and click grant Country Country Country Dropdown button 3. Eater the boarding Station 4. Enter the destination Station 5. Click the button	1. From: Mysore 2. To : Gos 3. Train : Chennai Express	Expected Result Application should show the following details. User filled the details about the boarding and details and with the train name		States	c of the Train		BUG-345	Execute d By
15	Booking_TC_010) Functional	Booking	Verify that search results have train details, timings and availability.	Enter URL and click grant Click on my Account Drop-down button S. Enter the boarding Station 4. Enter the destination Station	1. From: Mysore 2. To: Goo 3. Train: Chennai Express 4. Time: 12:00 AM	Application should show below UI elements: a.From text box b.Destination text box c.Train name: Mysore Express d.Time: 12-00 AM	Working as expected	Pass		N		Sarmath: C
16	Booking_TC_01	l Functional	Booking	Verify user is able to see available seats in a train.	1. Enter URL and click g. 2. Click on my Account Dropdown button 3. Enter the boarding Station 4. Enter the destination Station 5. Select the peats 6. Click the button	1. From: Myzore 2. To: Gen 3. Trial: Chennal Express 4. Time: 12:00 AM 5. Available Seate: 5	Application should show below UI dements: a From text box b.Destination text box c.Train name: Mypore Expense d.Time: 12-00 AM e. Seate: 5	Working as expected	Pace		N		Yogeshv ari \$
	Booking_TC_012	2 Functional	Booking	Verify that the user should see realtime train status of availability of seats.	1. Enter URL and click g 2. Click on my Account Dropdows button 3. Enter the boarding Station 4. Enter the destination Station 5. Select the seats 6. Click the button	1, From: Mysore 2, To : Gos 3, Train : Chennai Express	Application should show below UI elements: a From text box b.Destination text box c.Train name: Mysore Express d.Time: 12:00 AM		pass		N		Mahalak hni M

Test case ID	Feature Type	Composent	Test Scenario	Steps To Execute	Test Data	Expected Result	Actual Result	States	Comments	TC for Automation(Y/N)	BUG ID	Execute d By
Booking_TC_013	UI	Booking	Verify that the user should see realtime train status of availability of seats.	1. Enter URL and click go 2. Click on my Account Dropdown button 3. Enter the boarding Station 4. Enter the destination Station 5. Select the seats 6. Click the button	L.From: Mysore 2.To-10os 3.Train : Cheanel Express 4.Time: 12:00 AM 5. Available Seven 5	Application should show below UI elements: a From text box b.Destination text box c.Train name: Mysore Express d.Time: 12:00 AM e. Sest: 7	Working as espected	Fall	Seats were chosen which exceeds the availability	Υ		Arunkuma r P
Booking_TC_014	UI	Booking	Verify if the seat is booked then user should not be able to purchase the ticket for that seat	Enter URL and click go Click on my Account Dropdown button Station Station Enter the boarding Station Station Station Station Station	I. From: Mysere 2. To : Gos 3. Train : Chennai Express 4. Time: 12:00 AM 5. Available Seats 5	Application should show below UI elements: a From text box b. Destination text box c.Train name: Mysore Express d.Time: 12:00 AM Ticket and Booked	Working as expected	Fail	customer chooses seat number 2 but seat number 2 is already booked	Y		Yogeshw ari \$
PassengerDetails_TC_0 15	Functional	Passenger Details	Verify when user select seat, enters passenger details	Enter URL and click go Click on my Account Dropdown button 3. Enter Name 4.Eater age 5.Mobile Number 6. Seats	1, Eater UPS, and click go 2. Click on my Account Dropdown betten 3. Name : XXX 4. Age: 30 5. Mobile : 3875543210	Application should show below UI elements: a.Enter the Name b.Enter the Age c. Enter the mobile number	Working as expected	Pass		N		Sarmatha C
PassengerDetails_TC_0 16	UI	Passenger Details	Verify when user select seat, enters passenger details	Enter URL and click go Click on my Account Dropdown button 3. Enter Name 4.Exter age 5.Mobile Number 6. Seats	1. Eater URL and click go 2. Click on my Account Dropdown button 3. Name: 345 4. Age: 30 5. Mobile: 9316543210	Application should show below UI elements: a.Enter the Name b.Enter the Age c. Enter the mobile number	Working as expected	Fail	name should be filled with alphabets not numbers	Y	BUG-65	Arunkuma r P
				1. Enter URL and click go 2. Click on my Account	1. From: Mysore	Application should show below UI elements: aFrom text box			Remaining seats is 2.			
Test case ID	Feature Type	Component	Test Scenario	Steps To Execute	Test Data	Expected Result	Actual Result	States	Connest	TC for Automation(Y/N)	BUG ID	Execut
PassengerDetails_TC_0	Functional	Passenger Details	Verify status of the seat gets change to booked after the user has booked the ticket.	1. Enter URL and click go 2. Click on my Account Dropdown button 3. Enter Name 4. Enter age 5. Mobile Number 6. Seats	1. From: Mysore 2. To : Goa 3. Train: Chennal Express 4. Time: 12:00 AM 5. Available Seate: 5	Application should show below UI elements: a From text box b.Destination text box c.Train name: Mysore Express d.Time: 12:00 AM c. Remaining Seats: 2	Working as expected	Pass	Remaining seats is 2, because 3 seats are already booked	N		d By Mahalak hmi M
PassengerDetails_TC_0 18	Functional	Passenger Details	Verify user should receive SMS or mail after successfully booking of ticket.	Enter UPIL and click go Click on my Account Dropdown button Station Station Station Station Station Station Station Station Station	1. From: Mysore 2. To: Goo 3. Train: Chenni Epress 4. Time: 12:00 AM 5. Available Seate: 5	Application should show below UI elements: a.From text box b.Destination text box c.Truin name: Mysore Express d.Time: 12:00 AM Ticket Booked	Working as expected	Pass		N		Yogeshi ari \$
PassengerDetails_TC_0 19	Functional	Passenger Details	Verify when user cancels the ticket then his amount should get refunded	Enter URL and click go Click on my Account Dropdown button 3. Enter Name 4.Enter age 5.Mobile Number 6. Sosts	1. From: Mysore 2. To: Goa 3. Train: Chennai Express 4. Time: 12:00 AM 5. Available Seater 5	Application should show below UI elements: a.Enter the Name b.Enter the Age c. Enter the mobile number	Working as expected	pass	the user cancels the ticket and h gets refunded			Arunkum r P
Payment_TC_020	Functional	Payment	Verify by trying payment from different types of payment mode.	6. Seats I. Enter UPL and click go 2. Click on my Account Dropdown betton 3. Enter the boarding Station 4. Enter the destination Station	1. Enter URL and click go 2. Payment : Online 3. Name : XXX 4. Age: 30 5. Mobile : 3876543210	Application should show below UI elements: a.name text box b.nage text box c.mobile d.Seat text box c.Online payment	Working as expected	Pass		N		Sarmath C
PassengerDetails_TC_0 21	Functional	Passenger Details	Verify error message is displayed when user enters special character in from and to field.	5. Select the center LEnter URL and click go 2. Click on My Account dropdown betton 3. Enter In Valid username/email text box 4. Enter Invalid password in	1. Nanc: \$\$\$\$ 2. Age: 20 3.Mobile: 996634229	Application should show 'Incorrect name or password 'validation message.	Working as expected	Fail	Name is written with Special characters	Y	BUG-872	Yogeshi ari S
5 Test case ID	Feature Type	Composent	Test Scenario	Steps To Execute	Test Data	Expected Result	Actual Result	States	Comments	TC for Automation(Y/N)	BUG ID	Execute d By
TTE_TC_022	Functional	TTE	Verify TTE is able to see the Login/Signup popup when user clicked on My account button	1.Enter URL and click go 2.Click on Account dropdown button	ld: Steve password: Ttelogin	Login/Signup popup should display	Working as expected	Pass		N		Mahalaks Ami M
TTE_TC_023	u	ΠE	Verify TTE is able to see the Login/Signup popup when user clicked on My account button	3.Verify loain/Singup 1.Enter URL and click go 2.Click on Account dropdown button 3.Verify login/Singup popup displayed or not	ld: Userid11 password: Ttelogin	Application should show 'Incorrect name or password 'validation message.	Working as expected	Fail	Only the TTE should login in TTE login space. No User should	Y	BUG-756	Sarmatha C
Booking_TC_024	u	Booking	Verify on filling train details like From station, To station, Departure date, list of available trains are displayed	1. Enter URL and click go 2. Click on my Account Dropdown button 3. Enter the boarding Station 4. Enter the destination Station 5. Select the seats	1. From: 2. To: Goo 3. Train: Chennal Express 4. Time: 12:00 AM 5. Available Seate: 5	Application should show "Incorrect name or password" validation message.	Working as expected	Fail	the user tries to book the ticket without choosing the boarding station	Y	BUG-642	Arunkuma r P
Payment_TC_025	U	Payment	Verify payment should get rejected when user enter wrong credentials during payment process.	1. Enter URL and click go 2. Click on my Account Dropdown button 3. Enter the boarding Station 4. Enter the destination Station 5. Select the seats	1. Eater UPIL and click go 2. Payment: Online 3. Name: XXX 4. Age: 30 5. Mobile: 3876543210	Application should show "Incorrect name or password" validation message.	Working as expected	Fall		Y	BUG-124	Mahalaks hmi M
TTE_TC_026	Functional	πε	Verify TTE can view the details of bookings when scanning the GR code	Select the seats Enter UPL and click go Click on my Account Dropdown button Senter the boarding Station Enter the destination Station Salect the seats	1. Enter UPIL and dick go 2. Payment : Online 3. Name : XXXX 4. Age: 30 5. Mobile : 3876543210	TTE can view the booking details	Working as expected	Pass		N		Sarmatha C
Booking	Functional	Booking Details	Verify user should not be able to purchase ticket if he is not login	1.Enter UPIL and click go 2.Click on My Account dropdown button 3.Verify login/Singup	Username: chalam@gmail.com	Application should show 'Incorrect email or	Working as expected	Foll		Y	BUG- 987	Yogeshw

Test case ID	Feature Type	Component	Test Scenario	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)	BUG ID	Execute d By
Booking Details_TC_027	Functional	Booking Details	Verify user should not be able to purchase ticket if he is not login to application.	1.Enter UPL and click go 2.Click on My Account dropdown button 3. Verify logial/Singup popup with below UI elements: a. username text box b.psscword text box	Username: chalam@gmail.com password:Testing123	Application should show "Incorrect amail or password" validation message.	Working as expected	Fail		Y	BUG- 987	Yogoshur ari S
LoginPage_TC_028	Functional	Train Tracking	Verify whether the user can track the lire location the train	1.Enter URL and click go 2.Click on My Account dropdown button 3.Verily login/Singup popup with below UI elements: the user can able to view the live location	Live Location of the train: Hyderabad	User can able to view the live location of the train	Working as expected	pass		N		Sarmotha C
TrainTracking_TC_029	Functional	Train Tracking	Verify whether the user can track the live location the train with the update periodically	1Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Singup popup with below UI elements: the user can able to view the live location	Current Location of the train : Vijaywada	wer can track the live location the train with the update periodically	Working as expected	pass		N		Mahalaka hmi M
TraintTracking_TC_030	u	Train Tracking	Verify whether the user can track the line location the train	1Enter URL and click go 2.Click on My Account dropdown button 3.Verily login/Singup popup with below UI elements: the user can able to view the live location	Live Location of the train: Pune	User can able to view correct line location of the train	Working as expected	fail	the shown live location of the train is wrong	Y	BUG-872	Arunkuma r P
	Booking Details_TC_027 LoginPage_TC_028 TrainTrocking_TC_029	Booking Details_TC_027 Functional LoginPage_TC_028 Functional TrainTracking_TC_023 Functional	Booking Details_TC_027 Functional LoginPage_TC_028 Functional Train Tracking TrainTracking_TC_023 Functional Train Tracking	Booking Details_TC_027 Functional Booking Details Functional Functional Functional Train Tracking Train Tracking	Booking Details_TC_027 Functional Dooking Details Functional Dooking Details Functional Dooking Details Functional Train Tracking Tra	Booking Details_TC_027 Functional Booking Details Verify user should not be able to purchase clicked if he is not logis dropdown button and positive pour beaution. LoginPage_TC_028 Functional Train Tracking Tra	Booking Details_TC_027 Functional Booking Details Verify user should not be able to purchase clicked if he is not logis of popular button. 3. Verify logislification. LoginPage_TC_028 Functional Train Tracking Trackin	Booking Detaile_TC_027 Functional Booking Details Verify water should not be able to purchase ticket if he is not logs to application. Verify water should not be able to purchase ticket if he is not logs to application. Verify legal Singup popular below UI clements: a. waterame text box box box word text box box with the line location the train Train Tracking Train Tracki	Booking Details_TC_027 Functional Booking Details Verify water choid not be able to purchase ticked if his is not logs dropdown button and the line location the train LogiaPage_TC_028 Functional Train Tracking Train	Booking Details_TC_027 Functional Booking Details Functional Train Tracking TC_028 Functional Train Tracking TC_029 Functional Train Tracking TC_029 Train Tracking Train Tracking TC_020 Ul Train Tracking Train Trac	Booking Detail: TC_027 Functional Booking Detail: TC_028 Functional Train Tracking TC_028 Functional Train Tracking TC_028 Functional Train Tracking TC_028 Train Tracking TC_028 Train Tracking Train Trackin	Bealing Details_TO_021 Practional Booling Details Verify were should not be able to application. Verify were should not be able to application. Verify year should not be able to application. Verify whether the user can truck the first blocation the train. Train Tracking To_023 Functional Train Tracking Tr

8.2 User Acceptance Testing

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [Smart Solutions for Railways] project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	5	2	3	1	11
Duplicate	1	1	0	0	2
External	2	1	0	0	3
Fixed	9	4	5	2	20
Not Reproduced	0	0	1	0	1
Skipped	0	1	0	2	3
Won't Fix	1	0	1	0	2
Totals	18	9	10	5	42

The defect analysis was resolved by,

- 1. Reviewing the code and establishing checkpoints.
- 2. Debugging window.
- 3. By working in pairs and conducting team window.
- 4. By developing action plans to cope with specific issues.
- 5. Defect resolution process.
- 6. Prioritize and resolving defect.
- 7. Validating the corrective action presented.

3. Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Home page	3	0	0	3
Login page	4	0	0	4
Booking	10	0	0	10
Passenger Details	6	0	0	6
TTE	3	0	0	3
Train Tracking	2	0	0	2
Payment	2	0	0	2

RESULTS

Performance Metrics

Software quality is a measurement of something intangible, "how good" a software product really is. Some of the aspects of softwarequalitytaken are

- a. Scalability
- b. Speed
- c. Stability
- d. Reliability
- e. Security
- f. Maintainability and code quality

LOAD TEST

Scenario Name	Load Test – Smart Solutions for Railways Project				
Scenario Type	Load Test– Duration 1 hour				
Scenario Objective	To Simulate the peak loadand to monitor the performance				
	of the				
	Website				
Steps	The onlineload will be maintained at steady state				
Entry Criteria	All the monitors are in readystate				
Exit Criteria	Response met the criteria and test completion report is agreed				

STRESS TEST

Scenario Name	Stress Test- Smart Solutions for Railways Project
Scenario Type	Stress Test
Scenario	Objective is to verify that the application can handle the
Objective	projected
	growth and to discover the breaking point
Steps	Ramp up to 150% of peakvolume and continuously increase
	load
	until breaking point
EntryCriteria	All the monitorsare
	in placeTest Data is
	set up
	Peak load test completed successfully
Exit Criteria	Test completion report is agreedupon as perexpectation

ENDURANCE / SOAK TEST:

Scenario Name	Soak Test – SmartSolutions for Railways Project
Scenario Type	Endurance – Duration 8 hours
Scenario	To discover memory issues and bottlenecks that might
Objective	occurunder
	daily usage of the application
Steps	Steady stateis maintained for 8 hourswith half of the peak load

Entry Criteria	All the monitorsare in
	placeTest Data is
	setup
	Peak load test completed successfully
Exit Criteria	Test completion report is agreedupon as perexpectation

10.ADVANTAGES:

- ☆ Work load of the user is greatlyreduced.
- ☆ Passenger's can book ticketsfrom their convenient place and time
- ☆ TTE can easily verify tickets without the need to carry several documents pertaining to passenger details.
- $\stackrel{\star}{\sim}$ Sincecloudant database retrieval is possible only for the TTE (Admin)secure data handling made possible.
- ☆ Costof implementation is less.

DISADVANTAGES:

- ☆ Sincethe solution is built on a Web UI which requires internet facility, this may serve to be an issue.
- ☆ Networkerrors can cause serious issues while ticketbooking and verification.
- ☆ Systemcompatibility to adaptthe user interface may limit bookingfacility .
- ☆ Tracking of trains may be an issue at unlocalized terrains.

11.Conclusion

- Smart Solutionsfor railways is designed to reduce the work load of the user and also the use of paper.
- A Web page is designed for the publicwhere they can booktickets by seeing the available seats.
- After booking the train, the person will get a QR code which has to be shown to the Ticket Collector while boarding the train.

- The ticket collectors can scan the QR code to identify the personal details.
- A GPS module is present in the train to track it. The live status of the journey is updated in the Web app continuously
- All the booking details of the customers will be stored in the database with a unique ID and theycan be retrieved back whenthe Ticket Collector scans the QR Code.

12.Future Scope

- One of the most significant benefitsof an online reservation systemis that they are alwaysopen for business and can acceptbookings 24/7, so the customers don't have to wait until the next day to make a reservation or worse.
- By havingan online reservation system, we're one step aheadof the game, tipping
 the scales in the favor when prospectsresearch and compare the capabilities
 against the competitors.
- Wewill be able to create mobile smartphone applications in the future. The frameworkalready serves desktop computers andwe will be able tomake web browsers compliant in the future.
- India is projected to account for 40% of the total global shareof rail activityby 2050. This allows great potential for the onlineticket booking platformindustry.

13.APPENDIX

Source Code

Python code: Refer section 7 - Coding and Solutioning

Node - Red Flows (jsonformat):

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\{n\}
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msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":640,"y":620,"wires":[["7d458d15"
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524bafd3a","name":"About","in
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2524bafd3a","name":"Resets sign up form","func":"var msg1 = { payload: false };\nvar msg2 = {

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","rows":null, {"label":"password", "value":"password", "type":"text", "required":true, "rows":null, "fo
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word":""},"payload":"","submit":"Login","cancel":"","topic":"payload","topicType":"msg","splitLay
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":[["33dc8e14ded24e18"]]},{"id
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Checker","func":"var userName = [\"user1\",\"user2\",\"user3\",\"user4\"];\nvar userCode =
[\"123\",\"456\",\"789\",\"012\"];\nvar name;\nvar pass;\nvar
msg1,msg2;\n\nname=msg.payload.username;\npass =
msg.payload.password;\n\nmsg1=userName.includes(name);\nmsg2=userCode.includes(pass);\n\nif(
msg1==true \&\& msg2==true)\n{\n}
                                                                   msg =
{payload:2};\n}\nelse\n{\n}
                                                      msg = \{payload:0\}; \n\} \nreturn
msg;\n","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":500,"y":140,"wires":[["ad9a0f7
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CSS","field":"payload","fieldType":"msg","format":"css","syntax":"mustache","template":"body {\n background-color: #141414;\n background-

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nYycgd2lkdGg9JzYwJyBoZWlnaHQ9JzEyMCcgeD0nMCcgeT0nMCcgdmlld0JveD0nMCAwIDUgMTAnPgoJCQk8cGF0aCBmaW

xsLW9wYWNpdHk9JzAnIHN0cm9rZT0nIzI5MjkyOScgc3Ryb2tlLXdpZHRoPScwLjA5JyBkPSdNLTIsMUw3LDEwTS0yLDZMN

ywxNU0tMiwtNEw3LDUnLz4KCQk8L3BhdHRlcm4+CgkJPHBhdHRlcm4gcGF0dGVyblVuaXRz~PSd1c2VyU3BhY2VPblVzZScg~

```
aWQ9J2MyJyB3aWR0aD0nNjAnIGhlaWdodD0nMTIwJyB4PScxMDAlJyB5PScwJyB2aWV3Qm9\\4PScwIDAgNSAxMCc+CgkJC
```

TxwYXRoIGZpbGwtb3BhY2l0eT0nMCcgc3Ryb2tlPScjMjkyOTI5JyBzdHJva2Utd2lkdGg9JzAuM DknIGQ9J003LDFMLTIsMTBNNyw2TC0yLDE1TTcsLTRMLTIsNScvPgoJCTwvcGF0dGVybj4KC TwvZGVmcz4KCTxyZWN0IHdpZHRoPSc1MCUnIGhlaWdod D0nMTAwJScgZmlsbD0ndXJsKCNjKScvPgoJPHJlY3QgeD0nNTAlJyB3aWR0aD0nNTAlJyBoZ WlnaHQ9JzEwMCUnIGZpbGw9J3VybCgjYzIpJy8+Cjwvc3ZnPg==');\n \n margin:0; padding:0;\n overflow-x:hidden;\n font-family: 'Lato', Helvetica, height:100%;\n arial, sans-serif;\n font-weight: 300;\n font-size: 20px;\n line-height: 1.45;\n color: #eee;\n color: $rgba(255,255,255,.85);\n\$ \n#container { \n padding-top: $50px;\n\$ \n#content {\n max-width: 43em;\n padding:10px;\n margin:0 auto;\n}\nh1 {\n font-size: font-weight: 100;\n text-transform: uppercase;\n 4.8em;\n margin: 0;\n}\nh3 {\n font-size: 2.4em;\n font-weight: 300;\n line-height: 1.5;\n}\np, li {\n font-size: 1.7em;\n}\na {\n font-weight: 700;\n text-decoration: none;\n color: #fff;\n}\na:hover {\n textdecoration: underline;\n}\np#pleft {\n max-width:20em;\n float:left;\n}\np#pright {\n max-width:20em;\n float:left;\n}\nul {\n clear:both;\n}\n\nhtml { font-size: 62.5%; $\ \$ { font-size: 1em;}\n\n/* PYRAMIDCODE */\n.stage {\n -webkit-transform:scale(1.85);\n transform:scale(0.85);\n float:right;\n margin-right:120px;\n margin- top:30px;\n width:0px; height:0px;\n \n position:relative; \n -webkit-perspective:1200px;\n -webkit-perspective origin:50% 50%;\n perspective:1200px;\n perspective-origin:50% 50%;\n}\n.pyramid3d {\n position:relative;\n width:150px;\n height:150px;\n \n -webkit-transform-style: preserve-3d;\n transform-style: preserve-3d;\n -webkit-transform: rotateX(75deg) rotate(65deg);\n transform: rotateX(75deg) rotate(65deg);\n -webkit-animation: turnPyramid 10s linear infinite;\n animation: turnPyramid 10s linear infinite;\n}\n.triangle {\n -webkit-transform-style:preserve-3d;\n transformstyle:preserve-3d;\n width:0;height:0;\n background:none;\n}\n.triangle:before{\n content:\"\";\n position:absolute;\n height: 0; width: 0;\n border-style: solid;\nborder-width: 176px 75px 0 75px;\n}\n.side1 { -webkit-transform: translatex(0) rotatey(115.2deg) rotatez(90deg); transform: translatex(0) rotatey(115.2deg) rotatez(90deg); }\n.side2 { -webkit-transform: translatex(150px) rotatez(90deg) rotatex(64.8deg); transform: translatex(150px) rotatez(90deg) rotatex(64.8deg); \\n.side3 \{ -webkit-transform: translatez(0) rotatex(64.8deg); transform: translatez(0) rotatex(64.8deg); \\n.side4 \{ -webkit-transform: translatey(150px) rotatex(115.2deg); transform: translatey(150px) rotatex(115.2deg); \n.side1:before{ border-color: rgba(115, 115, 0, 0.3) transparent transparent transparent; \\n.side2:before\{\) border-color: rgba(20, 90, 225, 0.3) transparent transparent transparent; \\n.side3:before{ border-color: rgba(255,0, 0, 0.3) transparent transparent transparent; } $\n.side4:before{border-color: rgba(0, 255, 255, 0.3) transparent transparent transparent; }\n\n\@$ webkit-keyframes turnPyramid { 100% { -webkit-transform: rotateX(75deg) rotate(425deg); } }\n@keyframes

```
turnPyramid { 100% { transform: rotateX(75deg) rotate(425deg); } \\n\n@media (max-width:
300px) {\n}
                                                                                    html { font-
size: 70%; }\n
.stage { -webkit-transform:scale(0.05); transform:scale(0.05); \n \n@media (max-width: 440px) {\n
h1 { line-height:55px; }
\n\n@media (max-width: 460px) { \n.stage { position:absolute; top:25px; left:50%; margin-left:-
45px; \n h1 \{ margin-top:50px; text-align:center; \\n\\n@media (max-width:600px) \{ .stage \{ -
webkit-transform:scale(0.55); transform:scale(0.55); margin- right:60px; } \n@media (min-width:
600px) {\n html { font-size: 80%; }\n
                                                                              .stage { -webkit-
transform:scale(0.68); transform:scale(0.68); margin-right:80px; \\n\\n@media (min-width: 880px)
\{n\}
               html { font-size: 120%; }\n
                                                                                p, li { font-
size:1em;
\n p#pright { margin-left:3em; }\n .stage { -webkit-transform:scale(0.85); transform:scale(0.85);
margin-right:120px;
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id=\"container">\n < divid=\"content">\n
<div id=\"about\">\n
                       < h1 > \ 
                                   <div style='float:left; margin-bottom:20px;'>\n
                                                                                           Book
Easy\n
                                   </div>\n
                                                                  <div class=\"stage\">\n
                                                   <div class=\"triangle side1\"></div>\n
<div class=\"pyramid3d\">\n
<div class=\"triangleside2\"></div>\n
                                        <divclass=\"triangle side3\"></div>\n
                                                                                   <div
class=\"triangle side4\"></div>\n
                                       </div>\n
</div> \n
            </h1>\n
                       <h3 style='clear:both' class=\"subhead\">\n
                                                                    <a
href=\"https://plus.google.com/108495471566196018473/posts\">Book Easy App</a> helps you to
book the ticket at your comfortzone and place.\n </h3>\n \n
                                                                            Our App breaks the
usual way to book the trainticket.\n
                                         <br>\n
                                                                  <b> Beneficts of using our
App </b> \n
                              Online Ticket Booking\n Automated Ticket
                   <ul>\n
verification\n
                      Work Load reducction for user\n \n </div>\n
</div>\n</div>","storeOutMessages":true,"fwdInMessages":true,"resendOnRefresh":true,"templateS
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sVal":"","statusType":"auto","x"
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```
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\";\n}\nreturn
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","format":"{{msg.payload}}","layout":"row-
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ticket!","tooltip":"","color":"","bgcolor":"Blue","className":"","icon":"","payload":"{\"h
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```

```
a = global.get('s') \setminus a = 2 \parallel a = 3 \parallel a = 4 \parallel a = 5 \setminus n \in a
0\n}\nestriangle {\nmsg.payload = 1\n}\nreturn
msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":330,"y":780,"wires":[["5f62828e"
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4beed0","type":"function","z":"f71bd8f6e16cc47c","name":"remove booked seat","func":"var s =
i < a.length; i++) { \nif(a[i]==x) { \na.splice(i,1) \n} \n} \nif(s == x) { \nif(a[i]==x) { 
 1){\n} \cdot (s',s) \cdot (
2)\ \nglobal.set('s1',s)\nrem(s)\n}\nelse if(s==3)\\nglobal.set('s3',s)\nrem(s)\n}\nelse
if(s==4){\nglobal.set('s4',s)\nrem(s)\n}\nelse if(s
== 5){\nglobal.set('s5',s)\nrem(s)\n} return
msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"libs":[],"x":380,"y":860,"wires":[["28fa0b5dc"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires":[["28fa0b5dc"],"wires"],"wires","wires","wires"],"wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wires","wire
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remainingtickets", "func": "var a
= global.get('a')\nvar s = []\nfor(let i=0; i\leq a.length; i++)\{\n
s.push(a[i])\n}\nif(s.length == 1){\nmsg.options=[{\"No seats}]}
Available \verb|":0|] \\ | helse {\nmsg.options=s \n} \\ | hmsg.payload=
s\nreturnmsg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":560,"y":960,"wires":[["0
ac7b19190d56dee"]]},{"id":"d97269d73f
 19ce48","type":"function","z":"f71bd8f6e16cc47c","name":"a var global
def'',"func":"global.set('s1',0)\nglobal.set('s2',0)\nglobal.set('s3',0)\nglobal.set('s4',0)\nvar
a1=[1,2,3,4,5] \nglobal.set('a',a1) \nmsg.payload = global.get('a') \nreturn
msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":380,"y":1020,"wires":[["bd1f5e2
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- generator","z":"f71bd8f6e16cc47c","name":"","qrtype":"text2qr","text2qrText":"","ssid":"","hiddenssid":false,"wifitype":"","phonenu
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(d.getTimezoneOffset()*60000);\nvar offset =5.5;\nvar newDate=new Date(utc +
(3600000*offset));\nvar n=newDate.toISOString()\nvar date=n.slice(0,10)\nvar
time=n.slice(11,19)\nvar d1=date+','+time\nvar final =d1\nmsg.payload={\n\"unique\":d1,\n
\"Name\" :m.name,\n
                                            \mbox{"Age}\ : m.age,\n \''Mobile\'' : m.no,\n
\"Boarding\"
```

```
:global.get('b'),\n \"Destination\" :global.get('d'),\n \"Seat\" : global.get('s'),\n
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\''1234\'';\n\name=msg.payload.username;\npass=msg.payload.password;\n\nif(name==tteName)
&& pass == tteCode )\n{\n}
                                                                                                                                                                                                                                                       var
msg = \{payload:4\}; \n\} \land msg = \{payload:1\}; 
msg;\n","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":460,"y":100,"wires":[["fca34cd
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msg.payload = \sl oged in \sl on \s
Password \";\n}\nreturn
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ide\":[\"Track_Train_status_Train2\",\"Track_Train_status_Train3\"],\"show\":[\"Track_Train_status_
Train1\",\"Track_Train_status_Choose_the_Train\",\"Track_Trai
n status Back\"]}}","payloadType":"json","topic":"payload","topicType":"msg","x":200,"y":40,"wir
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rain_status_Back\"]}}","payloadType":"json","topic":"payload","topicType":"msg","x":210,"y":100,
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{\"hide\":[\"Track_Train_status_
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s_Choose_the_Train\",\"Track_Train_status_Back\"]}}","payloadType":"json","topic":"payload","top
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WEBSITE LINK:

http://159.122.187.79:31365/ui/#!/0?socketid=0VlSTLRQGwYqJZlDAAKL

GITHUB LINK:

https://github.com/IBM-EPBL/IBM-Project-16168-1659608764

PROJECT DEMO LINK:

https://drive.google.com/file/d/1fPmLUKgtTJIUDusT0xmLMlWuk 9KXz4KU/view?usp=sharing