Develop the web application using Node-RED Steps Followed

Date	10 November 2022
Team ID	PNT2022TMID18625
Project Name	Project – Smart Solution For Railways

Develop The Web Application Using Node-RED

Location Tracking:

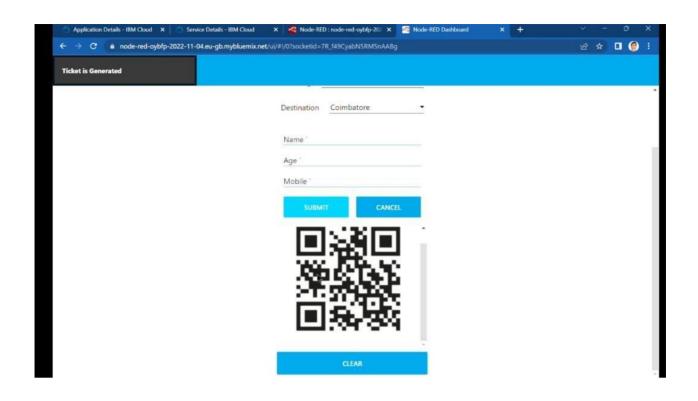
• A web application is developed using node red to track the live location of the train by receiving the latitude and longitude value of the location through GPS module.



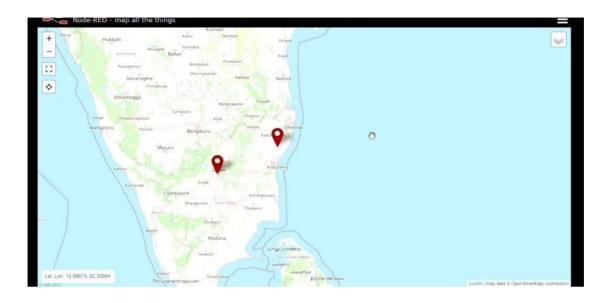
- The received values will be updated in the IBM Watson IoT Platform through a python code.
- A node red is used to obtain the value form the IBM Watson IoT and to locate the values in the Map.
- When the python code is made to Run the Location is updated in IBM Watson IoT Platform with a delay of 3 seconds.
- Open the Node-RED project:
- Added code to get QR Generator:

```
*untitled*
File Edit Format Run Options Window Help
service.set service url('https://apikey-v2-16u3ermdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab119145d3e6255eabb97
cap= cv2.VideoCapture(0)
font = cv2.FONT_HERSHEY_PLAIN
while True:
         _, frame = cap.read()
decodedObjects = pyzbar.decode (frame)
         for obj in decodedObjects:
                  #print ("Data", obj.data)
                  a=obj.data.decode('TTF-8')
cv2.putText(frame, "Ticket", (50, 50), font, 2, (255, 0, 0), 3)
                  #print (a)
                  try:
                           response = service.get document(
                                    db='booking',
                           doc_id = a
).get_result()
print (response)
                           time.sleep(5)
                  except Exception as e:
    print ("Not a Valid Ticket")
                           time.sleep(5)
         cv2.imshow("Frame",frame)
if cv2.waitKey(1) & 0xFF ==ord('q'):
                 break
can releases ()
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• Create the QR Generator:



• Showing the destination to users:



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