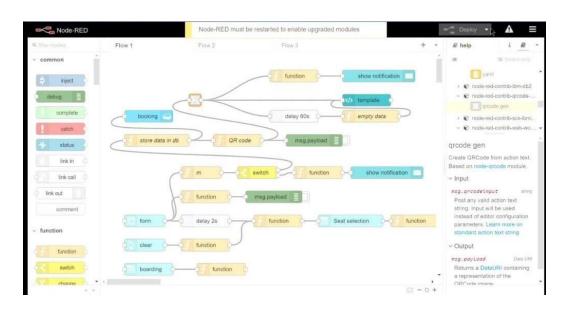
SMART SOLUTIONS FOR RAILWAYS:

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.

1)Open the Node-RED project:



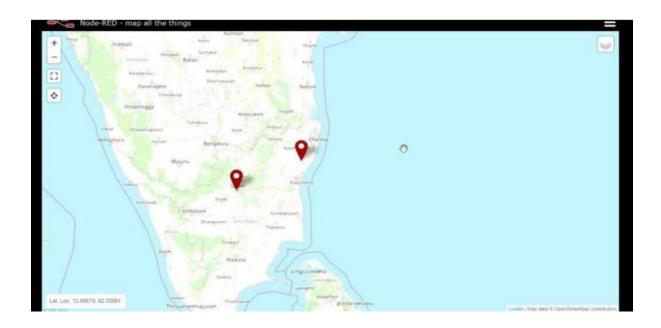
2) Add the code to get QR Generator:

```
*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()
        #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 ralasca/
```

3) Create the QR Generator:



4) Showing the destination to users:



Result:

Successfully developed the web application using Node-RED