## **DELIVERY OF SPRINT-1**

TEAM ID	PNT2022TMID25722
PROJECT NAME	SMART SOLUTION FOR
	RAILWAYS
DATE	06/11/2022

## **SPRINT-1**

```
#include <LiquidCrystal.h>
LiquidCrystal
lcd(5,6,8,9,10,11); int redled =
2; int greenled = 3; int buzzer
= 4; int sensor = A0;
int sensorThresh = 400;

void setup()
{
    pinMode(redled,OUTPUT);
    pinMode(greenled,OUTPUT);
    pinMode(buzzer,OUTPUT);
    pinMode(sensor,INPUT);
```

```
serial.begin(9600);
lcd.begin(16,2);
}
void loop()
{
  int analogValue = analogRead(sensor);
  Serial.print(analogvalue);
  if(analogValue>sensorThresh)
  {
    digitalWrite(redled,HIGH);
   digit1Weite(greenled,LOW);
   tone(buzzer,1000,10000); lcd.clear();
   lcd.setCursor(0,1);
   lcd.print("RAILWAYS"); delay(1000);
   lcd.clear(); lcd.setCursor(0,1);
    lcd.print("SMART SOLUTIONS FOR
    RAILWAYS");
    delay(1000);
  else
```

```
digitalWrite(greenlad
      ,HIGH);
      digitalWrite(redled,L
      OW);
      noTone(buzzer);
      lcd.clear();
      lcd.setCursor(0,0);
      lcd.print("SAFE");
     delay(1000);
lcd.clear();
lcd.setCursor(0,1);
lcd.print("ALL CLEAR");
     delay(1000);
   }
}
QR CODE:
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import
BasicAuthenticator authenticator =
BasicAuthenticator('apikey-v2-
```

```
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz',
    'b0ab119f45d3e6255eabb978')
   service = CloudantV1(authenticator=authenticator)
    service.set_service_url('https://apikey-v2-
    16u3ermdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab
    119145d3e6255ea bb978e7e2f0')
    cap=
   cv2.VideoCapture(0) font
    =
   cv2.FONT HERSHEY PLAI
    N
  while True:
      _, frame = cap.read()
        decodedObjects =
pyzbar.decode (frame)
                               for obj
in decodedObjects:
                               #print
("Data", obj.data)
    a=obj.data.decode('UTF-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
```

cap.release()
cv2.destroyAllWindows()
client.disconnect()