DELIVERY OF SPRINT-1

TEAM ID	PNT2022TMID09904
PROJECT NAME	SMART SOLUTION FOR RAILWAYS
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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,LOW);
        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:b0ab119145d3e6255e
        a bb978e7e2f0')
        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('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()
```