SMART SOLUTION FOR RAILWAYS

DEVELOP THE PYTHON SCRIPT

Date	08.11.2022
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QR Scanner:

```
import cv2

import numpy as np

import time

import pyzbar.pyzbar as pyzbar

from ibmcloundant.cloudant_v1 import CloudantV1

from ibmcloundant import CouchDbSessionAuthenticator

from ibm_cloud_sdk_core.authenticators import BasicAuthenticator


authenticator = BasicAuthenticator('apikey-v2-
16u3crmdpkghhxefdikvpssoh5fv5g3ubz','b0ab119f45d3e6255eabb978')

service=CloudantV1(authenticator=authenticator)

service.set_service_url('')


cap=cv2.Videocapture(0)

font=cv2.FONT_HERSHEY_PLAIN
```

```python
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()
```