PYTHON SCRIPT

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Project Name	SMART SOLUTIONS FOR RAILWAYS

python code to read the QR Code and fetch the data from Cloudant DB.

```python
import cv2
import time
import pyzbar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import CloudantV1
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator
authenticator = BasicAuthenticator('apikey-5fa841dab9544e31b6a1b6f9ba432422',
'591f8ef66aac6f9bc779c8e7bf4a670f4058cf13')
service = CloudantV1(authenticator=authenticator)
service.set_service_url('https://c14dc572-82d6-4b8b-9e6f-01fc8aedecb0-
bluemix.cloudant.com')
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)
        try:
            response = service.get_document(db='crendentials',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()
```