CitiusTech

QR Code Library

Readme

Version 1.0

5/13/2021

Table of Contents

1. Introduction

This document contains all essential information for the user to make full use of the Bot - QR Code Library. This manual includes a description of the functions and capabilities and step-by-step procedures for setup & configuration of the Bot.

1.1 Overview

Description - Bot performs create/read QR code functions, create function will generate image file as QR code output and read file will return the encrypted text in QR code image. DLL function validates the input parameter for create/read function. Exception will be thrown for invalid input/arguments.

Input for Create QR code – Text Message, Root folder path, QR image width & height.

Input for Read QR code – QR code image file path

1.2 Use cases

QR codes can be used to encrypt and store the text messages. Using QR code scanner the encrypted text can be read/converted into plain text. One of the use cases is to encrypt the website URL into QR code and extract the encrypted site URL.

Description: The QR codes will have the product description and we have to make product report. Read the product details (each attribute) and save it in excel file.

Step 1. Pass the folder path in loop (for each file in folder)

Step 2. Now pass the file to readQRCode function. This will extract the product details.

Step 3. Using string manipulation, extract the attributes of product.

Step 4. Write into excel file.

Step 5. Step 2 – step 4 will be repeated for each file present in folder and report will be generated.

2. Requirements & Prerequisites

2.1 System Requirements

- NET Framework 4.5.1 and above

2.2 Prerequisites

- Automation Anywhere A2019
- NET Framework 4.5.1 and above

3. Getting Started

3.1 Quick Start

3.1.1 Setup

NA

3.1.2 Configuration and Use

Configurable variable list with the details as mentioned in the example

Input Variables				
Function	***Parameter Name***	***Type***	***Direction***	***Additional Info***
createQRCode	str_Message	String	Input	Text Message to be encrypted in QR code
	str_FolderPath	String	Input	Folder where QR code image file will be created
	int_Height	Number	Input	Height of QR Code image in Pixels
	int_Width	Number	Input	Width of QR Code image in Pixels
readQRCode	str_QRFilePath	String	Input	QR Code image file path

Output Variables			
Parameter Name	***Type***	***Direction***	***Additional Info***
bool_ErrorStatus	Boolean	Output	True if any exception occurs, else False.
str_OutputResult	String	Output	If the operation is successful, then output value will be “True|”. If the operation is failed, then output value will be False|”. E.g. 1. True|QR Code generated successfully E.g. 2. False|Not a valid QR code image E.g. 3. False|Parameter is not valid (File format not supported)
str_ErrorDescr	String	Output	Returns the value if any exception occurs during the execution. The value will have Error Line number & Error Message. E.g. ERROR: At Line number 31 - False|Input File does not exist!!!

* The function name & input parameters are case sensitive

3.1.3 DLL Functions

Namespace: QRCodeDLL
Class: QRCodeDLL

Function Name	*Inputs*	*Outputs*	*Comments*
createQRCode	String – strMessage String – strFolderPath Integer – intWidth Integer – intHeight	String – True / False	Create QR code as image file (jpeg) for the given input text at specified location with height and width.
readQRCode	String – strQRcodeFile	String – True / False	Read QR code and returns the text message.

* The function name & input parameters are case sensitive

4. Support & FAQs

4.1 Support

Free bots are not officially supported. You can get access to Community Support through the following channels:

- You can get access to Community Support, connecting with other Automation Anywhere customers and developers on APeople – the Bot Building Forum, the Bot Store Support Forum, or the Developers Everywhere Group.
- Automation Anywhere also provides a Product Documentation portal which can be accessed for more information about our products and guidance on Enterprise A2019.

4.2 FAQs

What are QR Codes?

A QR code is a type of barcode that can be read easily by a digital device and which stores information as a series of pixels in a square-shaped grid**.**

How do QR codes work?

The patterns within QR codes represent binary codes that can be interpreted to reveal the code's data.

A QR reader can identify a standard QR code based on the three large squares outside the QR code. Once it has identified these three shapes, it knows that everything contained inside the square is a QR code.

The QR reader then analyzes the QR code by breaking the whole thing down to a grid. It looks at the individual grid squares and assigns each one a value based on whether it is black or white. It then groups grid squares to create larger patterns.

References:

https://www.nuget.org/packages/ZXing.Net/

https://github.com/micjahn/ZXing.Net

Appendix A: Record of Changes

Provide information on the version number, the date of the version, the author/owner of the version, and a brief description of the reason for creating the revised version.

No.	Version Number	Date of Change	Author	Notes

Appendix B: References

No.	Topic	Reference Link
1	Overview of Enterprise A2019	Click here
2	Guidance: Building basic A2019 bots	Click here
3	Guidance: Building A2019 action packages	Click here
4	APeople Community Forum	Click here
5	Automation Anywhere University	Click here