

EVISITOR CARD

ABSTRACT

No touch visitor entry card solution for
COVID-19 Botathon – Automation
Anywhere

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About eVisitor Card

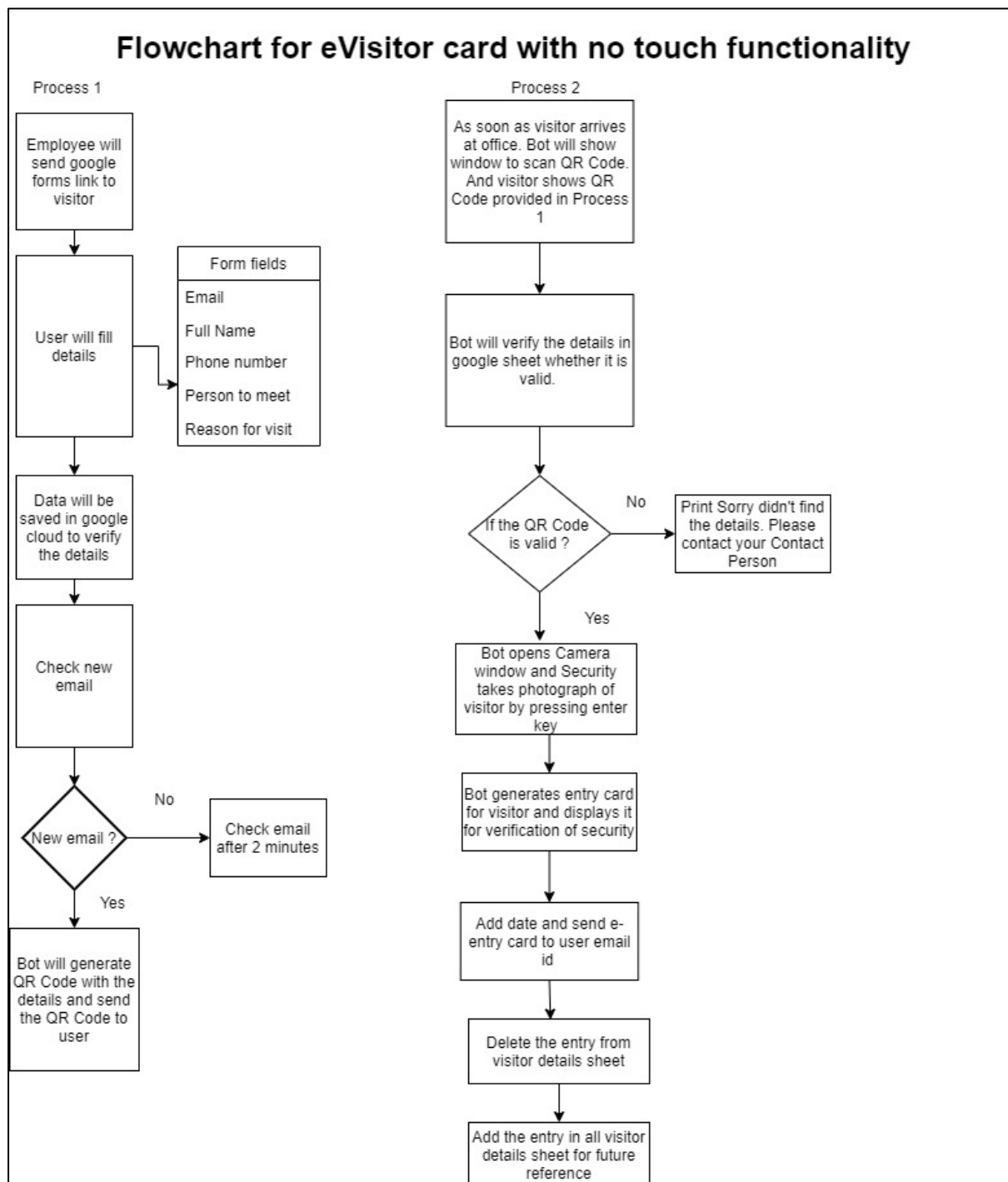
E-Visitor card digitizes the visitor check-in to the workplace premises. This solution sends the approval code (QR Code) to visitor. This QR Code will be validated upon visit without contacting any gadget. If the QR Code gets authorized, bot will snap the picture of visitor and will send the entry card over email.

E-Visitor card was made keeping the idea of no touch to the common things regardless of whether it is visitor register, electronic gadget or any other medium to take visitor entry.

Features

1. Scan the QR Code
2. Validate the QR Code based on the details provided by visitors
3. Show camera window and take the photograph of the visitor
4. Send digital entry card to the visitor over email
5. Delete the visitor details from google sheet
6. Add the visitor details in another google sheet to keep the details for future

Functionality Flowchart

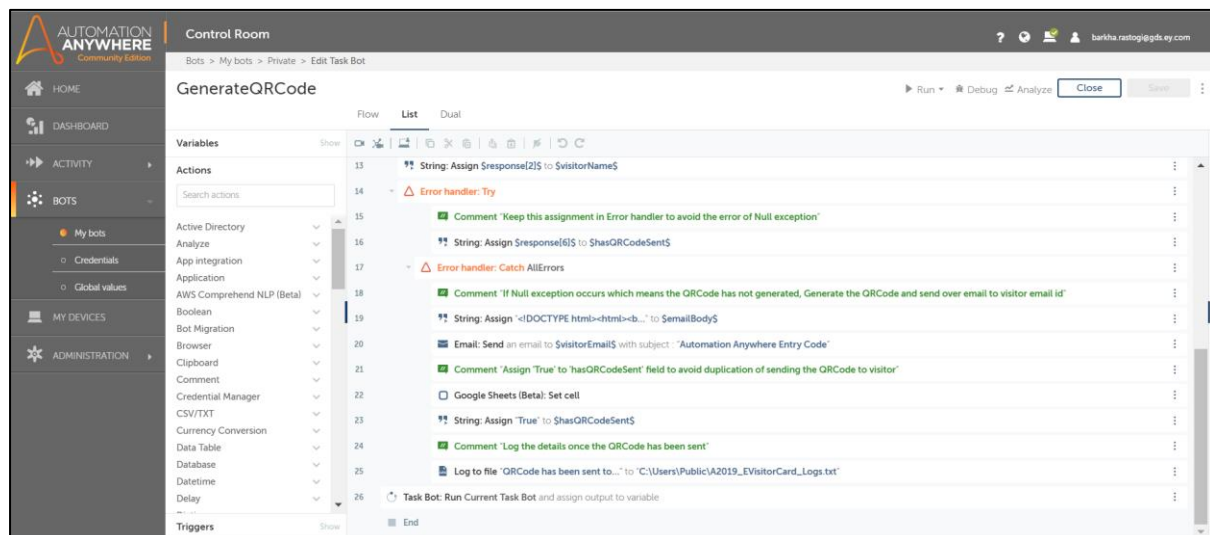
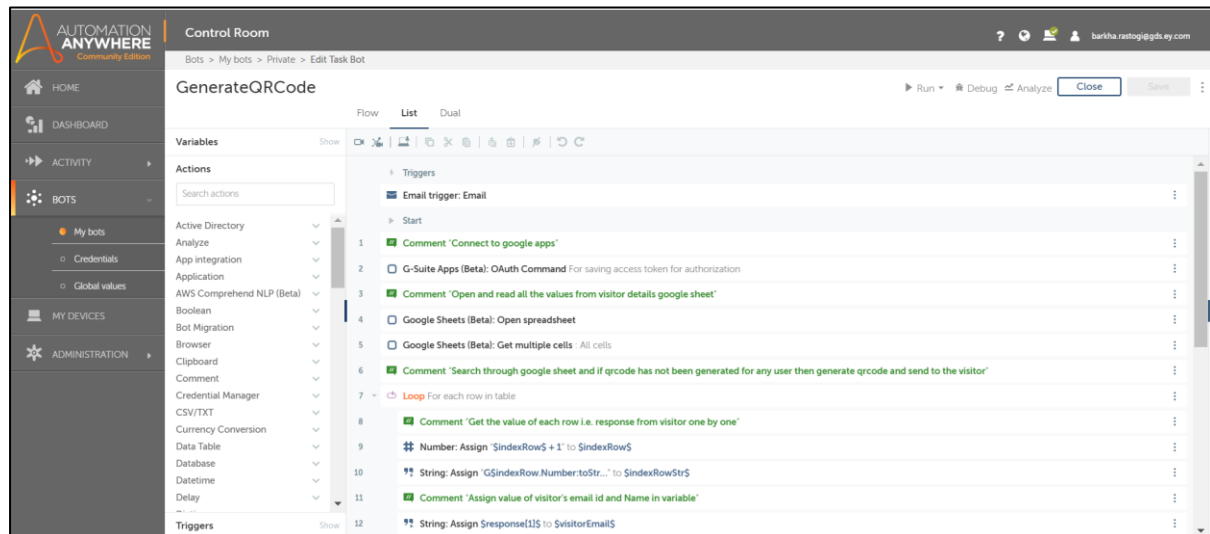


Dependencies

- ✓ Python should be installed in the system where the bot needs to be executed
- ✓ Python path must be added to PATH system environment variable (Refer README.md for steps)
- ✓ The dependent python libraries should be installed which can be installed by running install.bat available in Prerequisites folder
- ✓ Integrated or External Camera

Code Screenshots

1. Task Bot - Generate QR Code



2. Task Bot - Scan QR Code

The screenshot displays the Automation Anywhere Control Room interface for editing a task bot named 'ScanQRCode'. The left sidebar shows the navigation menu with 'BOTS' selected. The main workspace is divided into 'Variables', 'Actions', and 'Triggers' sections. The 'Actions' list includes:

- 1. Comment: 'Open form to display option to scan QRCode and close the form'
- 2. Interactive forms: Display \$VisitorEntryForm\$
- 3. Trigger loop
- 4. Trigger loop: Handle when Button0 in \$VisitorEntryForm\$ is Clicked
- 5. Comment: 'close the form once user clicks on scan QR code button'
- 6. Interactive forms: Close \$VisitorEntryForm\$
- 7. Comment: 'Call python script to show QRCode reader window if Scan QRCode button is clicked'
- 8. Python script: Open Python script of 22 lines from manual input
- 9. Python script: Execute function 'qrcode_reader'
- 10. Python script: Close Python 'Default'
- 11. Comment: 'Log the details of QRcode data'
- 12. Log to file: 'Searching for \$qrcodeData...' to 'C:\Users\Public\A2019_EVisitorCard_Logs.txt'
- 13. Trigger loop: Break
- 14. Trigger loop: Handle when Button1 in \$VisitorEntryForm\$ is Clicked
- 15. Comment: 'Close the form if Close Form button is clicked'
- 16. Interactive forms: Close \$VisitorEntryForm\$
- 17. Task Bot: Run 'Bots\SendEntryCard' and assign output to variable

3. Task Bot - Send Entry Card

The screenshot displays the Automation Anywhere Control Room interface for editing a task bot named 'SendEntryCard'. The left sidebar shows the navigation menu with 'BOTS' selected. The main workspace is divided into 'Variables', 'Actions', and 'Triggers' sections. The 'Actions' list includes:

- 1. Start
- 2. Comment: 'Connect to google apps'
- 3. G-Suite Apps (Beta): OAuth Command For saving access token for authorization
- 4. Comment: 'Open and find the QRCode data from visitor details google sheet'
- 5. Google Sheets (Beta): Open spreadsheet
- 6. Google Sheets (Beta): Find cells which contain search key
- 7. Error handler: Try
- 8. Comment: 'Read full row if the QRCode data is found. If not found goto Catch block'
- 9. Google Sheets (Beta): Read row From specific cell \$rowVisitorEmailIDID\$ and store values to \$rowVisitorDetails\$
- 10. Comment: 'Assign the visitor details in variables which were read from google sheet'
- 11. String: Assign \$rowVisitorDetailsID\$ to \$visitorEmailID\$
- 12. String: Assign \$rowVisitorDetailsID\$ to \$visitorName\$
- 13. String: Assign \$rowVisitorDetailsID\$ to \$visitorPhoneNum\$
- 14. String: Assign \$rowVisitorDetailsID\$ to \$visitorContactPerson\$
- 15. String: Assign \$rowVisitorDetailsID\$ to \$visitorReasonToVisit\$
- 16. Comment: 'Open and Execute Python function to show Camera window'
- 17. Python script: Open Python script of 23 lines from manual input
- 18. Python script: Execute function 'take_photo'

The screenshot displays the Automation Anywhere Control Room interface for editing a task bot named 'SendEntryCard'. The left sidebar shows the navigation menu with 'BOTS' selected. The main workspace is divided into 'Variables', 'Actions', and 'Triggers' sections. The 'Actions' list includes:

- 18. Python script: Close Python 'Default'
- 19. Comment: 'Display form with visitor details for security verification'
- 20. Interactive forms: Display SentryCardForm\$
- 21. Comment: 'Pass visitor details to form so that security check on the details can be done'
- 22. Interactive forms: Set value to \$visitorName\$ for TextBox0 in SentryCardForm\$
- 23. Interactive forms: Set value to \$visitorEmailID\$ for TextBox1 in SentryCardForm\$
- 24. Interactive forms: Set value to \$visitorPhoneNum\$ for TextBox2 in SentryCardForm\$
- 25. Interactive forms: Set value to \$visitorContactPerson\$ for TextBox3 in SentryCardForm\$
- 26. Interactive forms: Set value to \$visitorReasonToVisit\$ for TextBox4 in SentryCardForm\$
- 27. Comment: 'Assign system date to variable to display it on visitor entry card'
- 28. Datetime: To string Convert \$System.Date\$ and assign result to \$SystemDateStr\$
- 29. Interactive forms: Set value to \$SystemDateStr\$ for TextBox5 in SentryCardForm\$
- 30. Comment: 'Provide the trigger on the form'
- 31. Trigger loop
- 32. Trigger loop: Handle when Button0 in SentryCardForm\$ is Clicked
- 33. Comment: 'Trigger when Generate entry pass button is clicked'
- 34. Comment: 'Close the form and perform further activity'
- 35. Interactive forms: Close SentryCardForm\$

Automation ANYWHERE Control Room

Bots > My bots > Private > Edit Task Bot

SendEntryCard

Flow List Dual

Variables

Actions

- Active Directory
- Analyze
- App integration
- Application
- AWS Comprehend NLP (Beta)
- Boolean
- Bot Migration
- Browser
- Clipboard
- Comment
- Credential Manager
- CSV/TXT
- Currency Conversion
- Data Table
- Datetime
- Delay
- Dictionary
- DLL
- Email
- Error handler

Triggers

- 36 Comment 'Assign the email body with visitor entry card to variable'
- 37 ** String: Assign <html><head><style>... to \$emailBody\$
- 38 Comment 'Store parameters to be passed in DLL file in dictionary variable'
- 39 Dictionary: Put value \$photoDirectory\$ at key 'photoDirectory' in \$argumentsDLL\$
- 40 Dictionary: Put value \$emailBody\$ at key 'emailBody' in \$argumentsDLL\$
- 41 Dictionary: Put value \$username\$ at key 'username' in \$argumentsDLL\$
- 42 Dictionary: Put value \$password\$ at key 'password' in \$argumentsDLL\$
- 43 Dictionary: Put value \$visitorEmailID\$ at key 'visitorEmailID' in \$argumentsDLL\$
- 44 Comment 'Open and Execute DLL file to send entry card to visitor'
- 45 DLL: Open 'Bots\Resource\SendEmailWithInlineImage.dll' for session 'Default'
- 46 DLL: Run function 'SendEmail' and store output in variable \$prompt-assignment\$ and session 'Default'
- 47 DLL: Close session 'Default'
- 48 Comment 'Log the confirmation of sending entry card'
- 49 Log to file 'Entry Card has been sen...' to 'C:\Users\Public\A2019_EVisitorCard_Logs.txt'
- 50 Task Bot: Run 'Bots\DeleteAddEntry' and assign output to variable
- 51 Trigger loop: Break
- 52 Trigger loop: Handle when Button1 in SentryCardForm\$ is Clicked
- 53 Comment 'Trigger when Close form button is clicked'

Automation ANYWHERE Control Room

Bots > My bots > Private > Edit Task Bot

SendEntryCard

Flow List Dual

Variables

Actions

- Active Directory
- Analyze
- App integration
- Application
- AWS Comprehend NLP (Beta)
- Boolean
- Bot Migration
- Browser
- Clipboard
- Comment
- Credential Manager
- CSV/TXT
- Currency Conversion
- Data Table
- Datetime
- Delay
- Dictionary
- DLL
- Email
- Error handler

Triggers

- 42 Dictionary: Put value \$password\$ at key 'password' in \$argumentsDLL\$
- 43 Dictionary: Put value \$visitorEmailID\$ at key 'visitorEmailID' in \$argumentsDLL\$
- 44 Comment 'Open and Execute DLL file to send entry card to visitor'
- 45 DLL: Open 'Bots\Resource\SendEmailWithInlineImage.dll' for session 'Default'
- 46 DLL: Run function 'SendEmail' and store output in variable \$prompt-assignment\$ and session 'Default'
- 47 DLL: Close session 'Default'
- 48 Comment 'Log the confirmation of sending entry card'
- 49 Log to file 'Entry Card has been sen...' to 'C:\Users\Public\A2019_EVisitorCard_Logs.txt'
- 50 Task Bot: Run 'Bots\DeleteAddEntry' and assign output to variable
- 51 Trigger loop: Break
- 52 Trigger loop: Handle when Button1 in SentryCardForm\$ is Clicked
- 53 Comment 'Trigger when Close form button is clicked'
- 54 Interactive forms: Close SentryCardForm\$
- 55 Error handler: Catch AllErrors
- 56 Comment 'Log error details if any error occurs'
- 57 Log to file \$prompt-assignment\$ to 'C:\Users\Public\A2019_EVisitorCard_Logs.txt'

4. Task Bot - Delete Add Entry

Automation ANYWHERE Control Room

Bots > My bots > Private > Edit Task Bot

DeleteAddEntry

Flow List Dual

Variables

Actions

- Active Directory
- Analyze
- App integration
- Application
- AWS Comprehend NLP (Beta)
- Boolean
- Bot Migration
- Browser
- Clipboard
- Comment
- Credential Manager
- CSV/TXT
- Currency Conversion
- Data Table
- Datetime
- Delay
- Dictionary
- DLL
- Email
- Error handler

Triggers

- 1 Comment 'Open and find the cell value where the visitor detail is stored'
- 2 Google Sheets (Beta): Open spreadsheet
- 3 Google Sheets (Beta): Find cells which contain search key
- 4 Error handler: Try
- 5 Comment 'get timestamp and hasGRCode sent value from google sheet and assign it to variable'
- 6 Google Sheets (Beta): Read row from specific cell \$RowIndex\$ and store values to \$rowDetails\$
- 7 ** String: Assign \$rowDetails\$ to \$timestamp\$
- 8 ** String: Assign \$rowDetails\$ to \$hasGRCodeSent\$
- 9 Comment 'Delete the row from visitor details file so that user is not authorized with same code again'
- 10 Google Sheets (Beta): Delete cells
- 11 Error handler: Catch AllErrors
- 12 Log to file \$prompt-assignment\$ to 'C:\Users\Public\A2019_EVisitorCard_Logs.txt'
- 13 Google Sheets (Beta): Close
- 14 Comment 'Open the file with all visitor details'
- 15 Google Sheets (Beta): Open spreadsheet
- 16 Comment 'Read all column in all details sheet'
- 17 Google Sheets (Beta): Get multiple cells All cells
- 18 Comment 'get no of row in new file'

Automation ANYWHERE Control Room

Bots > My bots > Private > Edit Task Bot

DeleteAddEntry

Run Debug Analyze Close Save

Flow List Dual

Variables Show

Actions Search actions

- 19 Data Table: Get number of rows from data table \$allCellsNewSheet\$ and assign it to \$rowCount\$
- 20 Comment: Increment count of row by one so that the details can be written to next row
- 21 Number: Assign '\$rowCount + 1' to \$rowCount\$
- 22 Comment: Assign value to each column
- 23 Comment: As direct providing the value \$rowCount.Number.toString\$ in specific cell is not working. Assigning everything in variable first then setting the value in cell
- 24 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 25 Google Sheets (Beta): Set cell
- 26 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 27 Google Sheets (Beta): Set cell
- 28 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 29 Google Sheets (Beta): Set cell
- 30 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 31 Google Sheets (Beta): Set cell
- 32 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 33 Google Sheets (Beta): Set cell
- 34 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 35 Google Sheets (Beta): Set cell

Triggers Show

Automation ANYWHERE Control Room

Bots > My bots > Private > Edit Task Bot

DeleteAddEntry

Run Debug Analyze Close Save

Flow List Dual

Variables Show

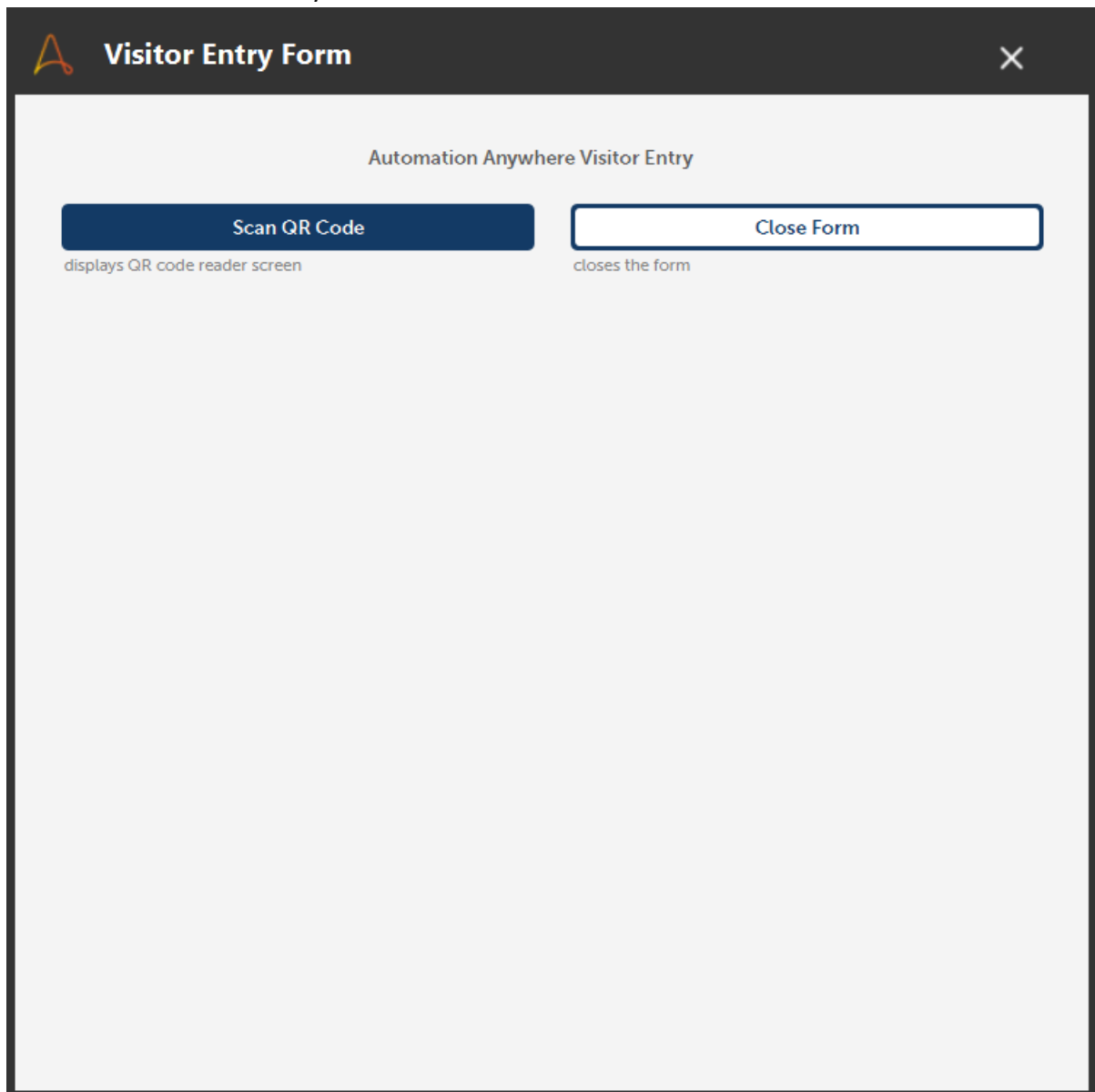
Actions Search actions

- 25 Google Sheets (Beta): Set cell
- 26 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 27 Google Sheets (Beta): Set cell
- 28 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 29 Google Sheets (Beta): Set cell
- 30 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 31 Google Sheets (Beta): Set cell
- 32 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 33 Google Sheets (Beta): Set cell
- 34 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 35 Google Sheets (Beta): Set cell
- 36 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 37 Google Sheets (Beta): Set cell
- 38 String: Assign '\$rowCount.Number.toString\$' to \$prompt-assignment\$
- 39 Google Sheets (Beta): Set cell
- 40 Log to file 'Visitor entry has been ...' to 'C:\Users\Public\A2019_EV\VisitorCard_Logs.txt'

Triggers Show

End

5. Form - Visitor Entry Form



The screenshot shows a mobile application interface for a "Visitor Entry Form". At the top, there is a dark header bar with a logo on the left and a close button (an 'X' icon) on the right. Below the header, the title "Visitor Entry Form" is displayed in a bold, dark font. Underneath the title, the text "Automation Anywhere Visitor Entry" is centered. The main content area contains two buttons: a dark blue button labeled "Scan QR Code" and a white button with a dark blue border labeled "Close Form". Below the "Scan QR Code" button, the text "displays QR code reader screen" is visible. Below the "Close Form" button, the text "closes the form" is visible. The background of the form is a light gray.


Visitor Entry Form

Automation Anywhere Visitor Entry

Scan QR Code
displays QR code reader screen

Close Form
closes the form

6. Form - Entry Card Form

 Visitor Details ×

Full Name

Email Address

Phone Number


Contact Person

Reason to visit

Date of visit


Generate Entry Pass


Close Form



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7. Email Content – Entry Code

Automation Anywhere Entry Code  Inbox ×




bharat25apr1987@gmail.com
to me ▾

Hi Barkha,

Thank you for providing the details!

Please show this QR Code at reception.



Thank You!
Automation Anywhere

****This is an auto generated email. Please do not reply.****

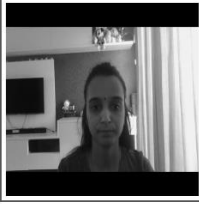
Please consider the environment before printing. Let's Go Green!

8. Email Content – Entry Card

Automation Anywhere Entry Card Inbox x

bharat25apr1987@gmail.com
to me

Hi Barkha,
Here is your e-entry card. Thank you for visiting.



Email Address rastogi.barkha6@gmail.com

Full Name **Barkha**

Phone Number **9738253366**

Contact Person **Bharat**

Reason for visit **Interview**

Date of visit **03-06-2020**

Thank You!
Automation Anywhere

This is an auto generated email. Please do not reply.

9. Google Sheet – Visitor Details (who requested for entry)

Visitor details						
Timestamp	Email address	Full Name	Phone number	Contact Person	Reason for visit	hasQRCodeSent
01/06/2020 01:36:28	rastogi.barkha6@gmail.co	Barkha	9738253366	Bharat	Interview	TRUE
01/06/2020 01:36:28	bharat.rastogi@gmail.com	Bharat	8050003536	Barkha	Interview	

10. Google Sheet – All Visitor Details (who has already visited)

AllVisitorDetails										
Timestamp	Email address	Full Name	Phone number	Contact Person	Reason for visit	hasQRCodeSent				
29/05/2020 02:36	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	29-05-2020				
29/05/2020 02:36	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	29-05-2020				
29/05/2020 02:36	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	29-05-2020				
29/05/2020 02:36	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	29-05-2020				
29/05/2020 02:36	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	29-05-2020				
29/05/2020 02:36	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	31-05-2020				
29/05/2020 02:36	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	31-05-2020				
31/05/2020 23:41	rastogi.barkha6@Barkha Rastogi	9738253366	Bharat	Interview	TRUE	01-06-2020				
01/06/2020 00:11	rastogi.barkha6@Barkha Rastogi	9738253366	Bharat	Interview	TRUE	01-06-2020				
01/06/2020 00:11	rastogi.barkha6@Barkha Rastogi	9738253366	Bharat	Interview	TRUE	01-06-2020				
01/06/2020 01:36	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	01-06-2020				
01/06/2020 02:11	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	01-06-2020				
01/06/2020 02:11	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	01-06-2020				
01/06/2020 02:11	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	01-06-2020				
01/06/2020 02:11	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	01-06-2020				
01/06/2020 02:11	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	02-06-2020				
01/06/2020 02:11	rastogi.barkha6@Barkha	9738253366	Bharat	Interview	TRUE	03-06-2020				

Future Improvement

- ✓ Scanning Government ID
- ✓ Auto Face-detection