Create Blank PiWeb Report if Characteristics Fail

The end result of this will be a PiWeb report that appears blank if any characteristics fail inspection. Note that this process will not prevent a report from being generated. It will simply show a blank report unless all characteristics pass. I will also show steps to add a button to show the measured values is desired.

- 1. Create Toggle Variable
 - a. With PiWeb Designer open navigate to "File" -> "Custom Variables" in the top tool bar.

| File | Edit Format | View | Tools | Help |
|-------|-------------------|------|--------|-----------------|
| - | Save report | | Ctrl+S | 이 지 🖹 🚢 🗐 💷 🖬 🖬 |
| | Save report as | | | 0 |
| | Import pages | | | |
| | Configure Gage R8 | kR | | Values" |
| | Page setup | | | |
| | Translate report | | Ctrl+R | |
| 8 | Custom variables | | | |
| ÷ | Print | | Ctrl+P | |
| | Properties | | | ~ |
| × | Exit | | Alt+F4 | sured Values |
| der (| | | | |

b. In the Custom Variables window, click on the "Writable Variables tab". In this tab, enter a name for the variable. I use "Toggle". Also enter 1 for the default value and 0 and 1 into the possible values. The custom variables window can be closed.

| Custo | om variables | | | | \times |
|-------|------------------------------------|---------------|------------------|-------------|----------|
| Sim | ple variables Writable variables 💡 | | | | |
| 0 | (a) N → E × E S | | | Find | Q |
| | Alias | Default value | Available values | Description | |
| | | | | | |
| | | | | | |
| | Toggle | 1 | 0, 1 | | |

- 2. Modify table/protocol
 - a. In the "Page Structure" tab on the left hand side of PiWeb Designer, click on the top level of your table or protocol. I have minimized the number of subfields in my protocol for legibility's sake. You may have more.

| Search (Ctrl+W) | Q |
|--|----------------------|
| Protocol | D |
| 🔺 🔄 Header | 59 elements |
| Header | 44 elements |
| Controls | 10 elements |
| Part and meaasurement -pdf- | 2 elements |
| 🔺 🧮 Main area | 24 elements |
| A E Protocol | 22 elements |
| Default (Default) | 21 elements |
| favicon.png | |
| §{Qdb.Characteristic(2098)} | |
| \$Qdb.MeasurementValueForFirstCh | aracteristic(1, -1)} |
| \${Qdb.Characteristic(2101)} | |
| §{Qdb.Characteristic(2113)} | |
| §{Qdb.Characteristic(2112)} | |
| \${Qdb.Measurement.DeviationForFi | rstCharacteristic |
| tual Tolerance bar | |
| \${Qdb.Measurement.ExceedanceFor | FirstCharacteris |
| \${Qdb.Property("FeatureComment") |) |
| Feature Info | 5 elements |
| ISOevalType | |
| VCMM Info | 3 elements |
| (8.4_02) StandardProtocol | |
| (\${Report.AdditionalInformation("Rev")}) \${Rep | portName} |
| Footer | 1 elements |
| Page 1 of 5 | |
| 3(PageXUTPPages) | |

 b. Click on "Properties" in the left hand side of PiWeb Designer to open the properties of the protocol. At the bottom of the Properties tab, there is a section labeled Miscellaneous. In Miscellaneous, there is a field labelled Output (Monitor).

| Miscellaneous | | |
|-----------------------------------|--------------|--|
| Clip content | \checkmark | |
| Output (Monitor) | \checkmark | |
| Output (print) | \checkmark | |

- c. Click on the smaller checkbox on the right hand side of the field. It is smaller and slightly harder to see. A text field will appear. Add the following text to that text field: \${AnyOf(LessEqual(Qdb.MeasurementValues.Error,0), Equal(ToInt(Toggle), ToInt(0)))}
- 3. Add a "Show Measurement Button"
 - a. This step is optional, but I am including it since you may want to see the failing values.
 - b. From the toolbar on the left hand side, add a button element to the header of the report. Either right click on the button and select "Hyperlink"->"Edit Hyperlink" or left click on the button and click on properties on the left-hand side of the PiWeb Designer screen and click the button next to "Hyperlink"

| Button "Show Button to trigger | Measured Values" an action | |
|-----------------------------------|-------------------------------|--|
| ✓ General | | |
| Hyperlink | None | |
| Text | Show Measured Values | |
| Word wrap | ✓ | |

c. Two actions are going to be added to the button. The first is the "Open Page" action.You need to set the page to be opened as the current page. In most cases, this is going to be page 1.

| Add action | ~ | Open page | | | | | |
|------------|---|-------------------|------------------|-----------|-----------------------------|---|---------------|
| Open page | × | Navigate to: | Page | ~ | 1 - Protocol | ~ | Page index: 1 |
| | | Data binding: | Apply dat | a binding | from element to target page | | |
| | | Measurement selec | tion: 🗌 Apply me | asuremen | t selection to target page | | |
| | | | | | | | |
| | | | | | | | |
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d. The other action that needs to be added is the "Write Variable Value" action. Add this action. For the variable to be written to, select the writable variable that you created. For the value to be written field, enter 0.

| | Edit hyperlink | | | | \times |
|---|----------------------------|------------|-------------------------|--|----------|
| c | Add action $$ | Write vari | able value | | |
| | (1) Open page X | Variable: | <pre>\${(Toggle)}</pre> | | |
| | (2) Write variable value X | Value: | 0 | | |
| | | | | | |
| | | | | | |

- 4. Demonstration
 - a. Below is an example of a measurement run with a few failing characteristics.

| rider number ariant company epartment MM Type MM No. perator Master Master Master Master Measurement Duration Measurement Duration No. 00:00:00.0 | Last 1 measurements > Approval + Biocked Part ident 31 Time/Date 10/28/2024 2:38 PM Run All Characteristics No. wasured values No. values: red Measurement Duration 00:00:00.0 | art name rawing number | | Show Measured Values | |
|--|--|---------------------------|--------|---|--------------------|
| Ampung partment MM Type MM Ko. perator ext Master Maste | Master Journal Duration Journal Journa | ariant | | Last 1 measurements ► Approval ≠ Blocked Part ident | 31 |
| MM No. Master Run Alues 20 No. measured values 20 No. values: red 20 ext Master 00:00:00.00 | Nater No. wasured values 20 2 20 00:00:00.0 | epartment | _ | Time/Date | 10/28/2024 2:38 PM |
| Perator Master No. values. red 02:00:00:00.00.0 | Master No. Values: red 00:00:00.0 | MM No. | | No. measured values | |
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b. Below is the same failing report after the "Show Measured Values" button was clicked. Note that the report is now showing measured values.

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|---------------|-------------------------|---------------------|
| |) | |
| art name | | |
| rawing number | Show Measured Values | 5 |
| rder number | 1 Measurements selected | |
| ompany | Part ident | 31 |
| epartment | Time/Date | 10/28/2024 2:38 PM |
| ММ Туре | Run | All Characteristics |
| MM No. | No. measured values | 20 |
| perator | No. values: red | • 2 🕀 |
| | Management Department | 00.00.00 0 |

c. Below is an example of a measurement run with no failing characteristics.

