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</appdef>

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<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

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<stage stageid="61819464-a598-4954-983a-f559aa812a8a" name="Note2" type="Note">

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This is an optional page where you might choose to perform some initialisation tasks after your business object

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

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<endpoint narrative=""/>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</sheet>

<sheet sheetid="4b214333-2626-4ac7-819b-da85809bbf64" type="Normal" published="True">

<name>Test Select</name>

<view>

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<cameray>26</cameray>

<zoom version="2">1.25</zoom>

</view>

</sheet>

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<loginhibit/>

<display x="15" y="90"/>

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<display x="-195" y="-105" w="150" h="90"/>

<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

</stage>

<stage stageid="ec474f96-a17c-4d19-b15f-f7ea547e3166" name="Clean Up" type="SubSheetInfo">

<subsheetid>64faac49-2413-45d1-a2fa-a85afdd32ed2</subsheetid>

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</stage>

<stage stageid="d5525457-f9f4-4936-9f4e-013226cfd4f0" name="Start" type="Start">

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<loginhibit/>

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</stage>

<stage stageid="f632fce0-0f41-4214-8202-643cd3329fdf" name="End" type="End">

<subsHEETid>64faac49-2413-45d1-a2fa-a85afdd32ed2</subsHEETid>

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</stage>

<stage stageid="8b2198e1-4872-4dc5-bec6-96d80ea37eaf" name="Start" type="Start">

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<loginhibit/>

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<onsuccess>2b6d3286-5f2b-4fa3-8fc1-82c2aafe34b3</onsuccess>

</stage>

<stage stageid="96570ebb-6219-44cd-b5b1-ffc812fd7b18" name="End" type="End">

<subsHEETid>0e16abd9-8fca-43ae-9e40-5191a8b33858</subsHEETid>

<loginhibit/>

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</stage>

<stage stageid="495cc798-b76a-49f1-9828-5748f6b16419" name="new" type="Note">

<subsheetid>64faac49-2413-45d1-a2fa-a85afdd32ed2</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<display x="-180" y="60" w="180" h="230"/>

</stage>

<stage stageid="949e1785-70d6-4257-a4e8-a85f1d3b7548" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<display x="-180" y="60" w="180" h="230"/>

</stage>

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<stage stageid="2b6d3286-5f2b-4fa3-8fc1-82c2aafe34b3" name="Launch" type="Navigate">
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<loginhibit/>
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<onsuccess>fe2adf60-0701-4b63-ab1c-545c6c93a1ba</onsuccess>
<step>
<element id="7433929f-1b07-425b-9d03-0057834f3757"/>
<action>
<id>Launch</id>
<arguments>
<argument>
<id>Path</id>
<value>[QA Root] &amp; "&#92;Code\VB6 App 3\VB6AutomatedTestApp.exe"</value>
</argument>
<argument>
<id>CommandLineParams</id>
<value>
</value>
</argument>
<argument>
<id>WorkingDirectory</id>
<value>
</value>
</argument>
<argument>
<id>NonInvasive</id>
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<value>

</value>

</argument>

<argument>

<id>ProcessMode</id>

<value>

</value>

</argument>

<argument>

<id>Options</id>

<value>

</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="5faa0953-1999-4142-a676-b304fd166d68" name="Terminate" type="SubSheetInfo">

<subsheetsid>b4bcd0c-756d-4003-972f-1f98e878a9db</subsheetsid>

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</stage>

<stage stageid="f638ee82-e846-4eff-bf12-2b1163bbb801" name="Start" type="Start">

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<loginhibit/>

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<onsuccess>fda18e94-1e67-43e4-8331-9f39dfff7757</onsuccess>

</stage>

<stage stageid="de2500d4-bf0d-4a44-b0a2-21005ec06376" name="End" type="End">

<subsheetid>b4bcd0c-756d-4003-972f-1f98e878a9db</subsheetid>

<loginhibit/>

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</stage>

<stage stageid="fda18e94-1e67-43e4-8331-9f39dfff7757" name="Terminate" type="Navigate">

<subsheetid>b4bcd0c-756d-4003-972f-1f98e878a9db</subsheetid>

<loginhibit/>

<display x="15" y="-15"/>

<onsuccess>de2500d4-bf0d-4a44-b0a2-21005ec06376</onsuccess>

<step>

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<action>

<id>Terminate</id>

</action>

</step>

</stage>

<stage stageid="dfdd9689-e2cf-4144-902e-0cee7e23e704" name="Time Out1" type="WaitEnd">

<subsheetid>0e16abd9-8fca-43ae-9e40-5191a8b33858</subsheetid>

<loginhibit/>

<display x="-75" y="165" w="30" h="30"/>

<onsuccess>3f773aa6-5ecc-40e0-99e0-6608cd09d256</onsuccess>

<groupid>6c842b0e-5f88-4726-aa47-26e0554b80bf</groupid>

</stage>

<stage stageid="fe2adf60-0701-4b63-ab1c-545c6c93a1ba" name="Wait1" type="WaitStart">

<subsheetsid>0e16abd9-8fca-43ae-9e40-5191a8b33858</subsheetsid>

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<display x="-75" y="45" w="30" h="30"/>

<groupid>6c842b0e-5f88-4726-aa47-26e0554b80bf</groupid>

<choices>

<choice reply="True">

<name>Main Window Check Exists</name>

<distance>60</distance>

<ontrue>96570ebb-6219-44cd-b5b1-ffc812fd7b18</ontrue>

<element id="d3124b1b-ffdb-4166-8559-2aadf99eddb3"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>30</timeout>

</stage>

<stage stageid="3f773aa6-5ecc-40e0-99e0-6608cd09d256" name="Exception1" type="Exception">

<subsheetsid>0e16abd9-8fca-43ae-9e40-5191a8b33858</subsheetsid>

<display x="15" y="150"/>

<exception type="Test Failure" detail=""Target application did not launch""/>

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</stage>

<stage stageid="d847c323-8d11-4076-9650-50cedf6c7eb0" name="Test Children" type="SubSheetInfo">

<subsheetsid>aee9a205-8d87-4ad3-82f3-05c023311941</subsheetsid>

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</stage>

<stage stageid="47a9a208-85e5-404d-bdb9-eb9f1693008b" name="Start" type="Start">

<subsheetsid>aee9a205-8d87-4ad3-82f3-05c023311941</subsheetsid>

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<display x="-15" y="-135"/>

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<onsuccess>8f6c138f-3981-4984-933e-0cff4895c2e4</onsuccess>

</stage>

<stage stageid="3a531389-fc23-4558-9aaa-fc8177492319" name="End" type="End">

<subsheetsid>aee9a205-8d87-4ad3-82f3-05c023311941</subsheetsid>

<loginhibit/>

<display x="-15" y="165"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="8f6c138f-3981-4984-933e-0cff4895c2e4" name="Read some children" type="Read">

<subsheetsid>aee9a205-8d87-4ad3-82f3-05c023311941</subsheetsid>

<loginhibit/>

<display x="-15" y="-75"/>

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<onsuccess>a76a3677-aebd-435e-a2b5-2909a06b2d2b</onsuccess>

<step stage="Coll1">

<element id="3652ed58-0a59-417e-9a85-a28ade683de8"/>
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<action>

<id>GetTreenodeChildItems</id>

<arguments>

<argument>

<id>newtext</id>

<value>"Child node 1"</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="1e62f007-4e8e-4104-8b63-a3c376fa2ce6" name="Coll1" type="Collection">

<subsHEETid>aee9a205-8d87-4ad3-82f3-05c023311941</subsHEETid>

<display x="180" y="-105" w="120" h="60"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="a76a3677-aebd-435e-a2b5-2909a06b2d2b" name="Loop Start1" type="LoopStart">

<subsHEETid>aee9a205-8d87-4ad3-82f3-05c023311941</subsHEETid>

<loginhibit/>

<display x="-15" y="-15"/>

<onsuccess>87e3293d-291e-428d-8ac5-8f9ae85334c3</onsuccess>

<groupid>587965aa-0cdb-455b-9f19-5c666273eff6</groupid>

<looptype>ForEach</looptype>

<loopdata>Coll1</loopdata>

</stage>

<stage stageid="e29cb03b-753a-4b15-a901-ebafbd63f51e" name="Loop End1" type="LoopEnd">

<subsheetsid>aee9a205-8d87-4ad3-82f3-05c023311941</subsheetsid>

<loginhibit/>

<display x="-15" y="75"/>

<onsuccess>bd1ba8d8-a780-446c-8efa-395451bb927d</onsuccess>

<groupid>587965aa-0cdb-455b-9f19-5c666273eff6</groupid>

</stage>

<stage stageid="b25ed6eb-a9e5-4f36-9f29-a810d09441c5" name="Data1" type="Data">

<subsheetsid>aee9a205-8d87-4ad3-82f3-05c023311941</subsheetsid>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="87e3293d-291e-428d-8ac5-8f9ae85334c3" name="Append" type="Calculation">

<subsheetsid>aee9a205-8d87-4ad3-82f3-05c023311941</subsheetsid>

<loginhibit/>

<display x="-15" y="30"/>

<onsuccess>e29cb03b-753a-4b15-a901-ebafbd63f51e</onsuccess>

<calculation expression="[Data1] & [Coll1.Node Text]" stage="Data1"/>

</stage>

<stage stageid="bd1ba8d8-a780-446c-8efa-395451bb927d" name="Check" type="Decision">

<subsheetid>aee9a205-8d87-4ad3-82f3-05c023311941</subsheetid>

<loginhibit/>

<display x="-15" y="120"/>

<decision expression="[Data1] = "Child node 1 AChild node 1 B""/>

<ontrue>3a531389-fc23-4558-9aaa-fc8177492319</ontrue>

<onfalse>0394c7fe-f70c-41cd-b782-219e770dd3f2</onfalse>

</stage>

<stage stageid="0394c7fe-f70c-41cd-b782-219e770dd3f2" name="Exception2" type="Exception">

<subsheetid>aee9a205-8d87-4ad3-82f3-05c023311941</subsheetid>

<display x="165" y="120"/>

<exception type="TestFailure" detail=""The children did not match what was expected""/>

</stage>

<stage stageid="ed1f2b85-81dc-4473-8534-f4423d0b6e57" name="Test Siblings" type="SubSheetInfo">

<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<display x="-195" y="-105" w="150" h="90"/>

</stage>

<stage stageid="bc869b1d-9061-478a-8581-07400debcbdb3" name="Start" type="Start">

<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<loginhibit/>

<display x="15" y="-150"/>

<onsuccess>aeb87558-3afd-41ae-b114-5f5c8e3e5dfe</onsuccess>

</stage>

<stage stageid="cbb3d48e-be7a-4333-8adf-ccec55f030e5" name="End" type="End">

<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<loginhibit/>

<display x="15" y="165"/>

</stage>

<stage stageid="aeb87558-3afd-41ae-b114-5f5c8e3e5dfe" name="Read some siblings" type="Read">

<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<loginhibit/>

<display x="15" y="-90"/>

<onsuccess>0091febb-a539-44c6-9992-687075531c39</onsuccess>

<step stage="Coll1">

<element id="3652ed58-0a59-417e-9a85-a28ade683de8"/>

<action>

<id>GetTreenodeSiblingItems</id>

<arguments>

<argument>

<id>newtext</id>

<value>"Child node 1"</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="68476560-cea6-45fe-8392-cb5c54a22540" name="Coll1" type="Collection">

<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<display x="210" y="-120" w="120" h="60"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="0091febb-a539-44c6-9992-687075531c39" name="Loop Start1" type="LoopStart">

<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<loginhibit/>

<display x="15" y="-30"/>

<onsuccess>05c85086-e28f-4efa-a4a7-605c5221c4b7</onsuccess>

<groupid>79c03b63-00db-4554-86f2-44302c107008</groupid>

<looptype>ForEach</looptype>

<loopdata>Coll1</loopdata>

</stage>

<stage stageid="667d082c-11dc-4afe-93f4-b5a14c3aecc0" name="Loop End1" type="LoopEnd">

<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<loginhibit/>

<display x="15" y="60"/>

<onsuccess>a22bf201-aec2-4687-9faf-0558a8b68b6b</onsuccess>

<groupid>79c03b63-00db-4554-86f2-44302c107008</groupid>

</stage>

<stage stageid="03b2fea8-f7dd-4da7-9df3-c5de99f1eefd" name="Data1" type="Data">

<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<loginhibit/>

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<display x="210" y="-45" w="120" h="30"/>
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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

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<stage stageid="05c85086-e28f-4efa-a4a7-605c5221c4b7" name="Append" type="Calculation">
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<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<loginhibit/>

$$x=15 \quad y=15$$

<onsuccess>667d082c-11dc-4afe-93f4-b5a14c3aecc0</onsuccess>

```
<calculation expression="[Data1] & & [Coll1.Node Text]" stage="Data1"/>
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</stage>

```
<stage stageid="a22bf201-aec2-4687-9faf-0558a8b68b6b" name="Check" type="Decision">
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<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

<loginhibit/>

$$x=15 \quad y=105$$


```
<decision expression="[Data1] = &quot;Child node 1Child node 2Child node 3Child node 4Child node
```

<ontrue>cbb3d48e-be7a-4333-8adf-ccec55f030e5</ontrue>

<onfalse>1b85c85a-e647-4742-a165-ecaf35ff8860</onfalse>

</stage>

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<stage stageid="1b85c85a-e647-4742-a165-ecaf35ff8860" name="Exception2" type="Exception">
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<subsheetid>633ddeab-0380-40be-ade3-e72c7210e6c9</subsheetid>

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<display x="195" y="105"/>

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<exception type="TestFailure" detail="&quot;The children did not match what was expected&quot;
</stage>

<stage stageid="13e9c1a0-6d0e-482b-82dd-1e4f77c69737" name="Test Select" type="SubSheetInfo">
<subsheetsid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetsid>

<display x="-285" y="-150" w="150" h="90"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="d2c0cce0-95fe-401e-a967-0a23db3591e1" name="Start" type="Start">

<subsheetsid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetsid>

<loginhibit/>

<display x="-15" y="-165"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>673a2644-ee2c-4609-88be-37bcd2670a</onsuccess>

</stage>

<stage stageid="814527fa-342e-4655-b7d0-a28b233dd851" name="End" type="End">

<subsheetsid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetsid>

<loginhibit/>

<display x="210" y="165"/>

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</stage>

<stage stageid="673a2644-ee2c-4609-88be-37bcd2670a" name="Select node" type="Navigate">

<subsheetsid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetsid>

<loginhibit/>

<display x="-15" y="-105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>
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```
<onsuccess>931dd7b1-78fe-4ae1-8b1b-20ec0a07ec90</onsuccess>

<step>

<element id="3652ed58-0a59-417e-9a85-a28ade683de8"/>

<action>

<id>SelectTreeNode</id>

<arguments>

<argument>

<id>newtext</id>

<value>"Child node 1 A"</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="a50cd746-817f-4856-9cdb-ef4d6df27846" name="Time Out2" type="WaitEnd">

<subsheetid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetid>

<loginhibit/>

<display x="-15" y="105" w="30" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>d68944c2-0605-4264-9aca-d062d56a0bca</onsuccess>

<groupid>20d632a1-89a0-4ec7-9c97-78a367f97b17</groupid>

</stage>

<stage stageid="9344ffce-14a8-4dad-9787-2553031a5a02" name="Wait for message" type="WaitStart">

<subsheetid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetid>

<loginhibit/>

<display x="-15" y="15" w="30" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>
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<groupid>20d632a1-89a0-4ec7-9c97-78a367f97b17</groupid>

<choices>

<choice reply="True">

<name>Message Box Check Exists</name>

<distance>45</distance>

<ontrue>f6e73560-32fa-4aa4-a80c-f0472c24841d</ontrue>

<element id="bca85768-8381-487b-b051-a64c420b875b"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>20</timeout>

</stage>

<stage stageid="f6e73560-32fa-4aa4-a80c-f0472c24841d" name="Read message" type="Read">

<subsheetsid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetsid>

<loginhibit/>

<display x="75" y="60"/>

<onsuccess>73572282-5ad5-4451-a77f-48281ef6f47d</onsuccess>

<step stage="Data2">

<element id="33c91912-8fdc-4ba7-9f87-9e7682ea39ab"/>

<action>

<id>GetWindowText</id>

</action>

</step>

</stage>

<stage stageid="46bd5314-985c-4c97-a0dc-2c74f96d15c4" name="Data2" type="Data">

<subsheetid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetid>

<display x="150" y="30"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="73572282-5ad5-4451-a77f-48281ef6f47d" name="Press OK" type="Navigate">

<subsheetid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetid>

<loginhibit/>

<display x="75" y="105"/>

<onsuccess>70a5d80c-c24a-4092-992e-cd142f5e61a5</onsuccess>

<step>

<element id="8c9a1b09-f1e5-425d-9874-0d44e481b297"/>

<action>

<id>Press</id>

</action>

</step>

</stage>

<stage stageid="70a5d80c-c24a-4092-992e-cd142f5e61a5" name="Check" type="Decision">

<subsheetid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetid>

<loginhibit/>

<display x="75" y="165"/>

<decision expression="[Data2]="Child node 1 A""/>

<ontrue>814527fa-342e-4655-b7d0-a28b233dd851</ontrue>

<onfalse>6b436384-9bde-429d-a88a-326c3af0d2ba</onfalse>

</stage>

<stage stageid="6b436384-9bde-429d-a88a-326c3af0d2ba" name="Exception3" type="Exception">

<subsheetsid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetsid>

<display x="-45" y="165"/>

<exception type="Test Failure" detail=""Wrong message""/>

</stage>

<stage stageid="931dd7b1-78fe-4ae1-8b1b-20ec0a07ec90" name="Activate app" type="Navigate">

<subsheetsid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetsid>

<loginhibit/>

<display x="75" y="-105"/>

<onsuccess>1012c970-fac8-4294-9bc7-3ad0f82d727d</onsuccess>

<step>

<element id="d3124b1b-ffdb-4166-8559-2aadf99eddb3"/>

<action>

<id>ActivateApp</id>

</action>

</step>

</stage>

<stage stageid="81194254-1a96-452e-9cda-85af37940b64" name="Click to focus" type="Navigate">

<subsheetsid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetsid>

<loginhibit/>

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<div style="font-family: Tahoma; font-size: 10pt; color: black;">

<div id="b41825da-1afc-4da9-adf0-f4e43f8d3c8a">

<div>

<div id="3652ed58-0a59-417e-9a85-a28ade683de8">

<div>

<div id="ClickWindow">

<div>

<div>

<div id="targx">

<div value="0">

</div>

<div>

<div id="targy">

<div value="200">

</div>

</div>

</div>

</div>

</div>

<div id="cadcd77-2b74-4b8e-a0f8-9f753c7faa2f" name="Time Out3" type="WaitEnd">

<div id="4b214333-2626-4ac7-819b-da85809bbf64">

<div id="loginhibit">

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<div style="font-family: Tahoma; font-size: 10pt; color: black;">

<div id="22f333be-094c-40d9-8da2-0ffe60006865">

<div id="02835948-34aa-46cb-96d8-a30b9468b4f3">


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</stage>

<stage stageid="1012c970-fac8-4294-9bc7-3ad0f82d727d" name="Wait for active" type="WaitStart">

<subsheetid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetid>

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<display x="150" y="-105" w="30" h="30"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<groupid>02835948-34aa-46cb-96d8-a30b9468b4f3</groupid>

<choices>

<choice reply="True">

<name>Main Window Active Check Exists</name>

<distance>45</distance>

<ontrue>81194254-1a96-452e-9cda-85af37940b64</ontrue>

<element id="39f57a31-cb4c-4359-b728-90d727fc10c3"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>5</timeout>

</stage>

<stage stageid="22f333be-094c-40d9-8da2-0ffe60006865" name="Window did not activate" type="Excepti

<subsheetid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetid>

<display x="255" y="-15"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<exception type="Test Failure" detail="&quot;Window did not activate&quot;"/>

</stage>
```

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<stage stageid="d68944c2-0605-4264-9aca-d062d56a0bca" name="Exception5" type="Exception">
<subsheetid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetid>

<display x="-75" y="105"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<exception type="Test Failure" detail="&quot;Message box did not appear&quot;"/>

</stage>

<stage stageid="b41825da-1afc-4da9-adf0-f4e43f8d3c8a" name="Press enter" type="Navigate">
<subsheetid>4b214333-2626-4ac7-819b-da85809bbf64</subsheetid>

<loginhibit/>

<display x="-75" y="15"/>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>9344ffce-14a8-4dad-9787-2553031a5a02</onsuccess>

<step>

<element id="7433929f-1b07-425b-9d03-0057834f3757"/>

<action>

<id>SendKeys</id>

<arguments>

<argument>

<id>newtext</id>

<value>"{ENTER}"</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="c26d521d-8b9c-479e-a3f4-2c8ef6433dad" name="QA Root" type="Data">
<subsheetid>0e16abd9-8fca-43ae-9e40-5191a8b33858</subsheetid>
```

```
<loginhibit/>

<display x="-210" y="-15" w="150" h="30"/>

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<initialvalue xml:space="preserve">H:\automate\qa</initialvalue>

<exposure>Environment</exposure>

<private/>

<alwaysinit/>

</stage>

</process>

<process name="UIA HTML Page" version="1.0" bpversion="6.2.0.1900" narrative="" type="object" runmo

<appdef>

<element name="IE - HTML Radio Button">

<id>b1b451e7-4877-49b4-b797-bb02a4cbbaf3</id>

<group name="Radio Button">

<id>261964bb-8ae9-49af-962b-2acee4a7cac5</id>

<element name="Radio Button 1 (UIA)">

<id>ee72645c-fcb6-47b3-a778-566bda83707f</id>

<type>UIARadio</type>

<basetype>UIARadio</basetype>

<datatype>flag</datatype>

<diagnose>False</diagnose>

<attributes>

<attribute name="uX">

<ProcessValue datatype="number" value="-1900"/>

</attribute>

<attribute name="uY">
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```
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<attribute name="uWidth">

<ProcessValue datatype="number" value="13"/>

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<attribute name="uHeight">

<ProcessValue datatype="number" value="13"/>

</attribute>

<attribute name="uClassName" inuse="True">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="uAutomationId" inuse="True">

<ProcessValue datatype="text" value="radio1"/>

</attribute>

<attribute name="uLocalizedControlType" inuse="True">

<ProcessValue datatype="text" value="radio button"/>

</attribute>

<attribute name="ulsPassword">

<ProcessValue datatype="flag" value="False"/>

</attribute>

<attribute name="ulsRequiredForForm">

<ProcessValue datatype="flag" value="False"/>

</attribute>

<attribute name="uName" inuse="True">

<ProcessValue datatype="text" value="My HTML Radio Button 1"/>

</attribute>

<attribute name="uOrientation">
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```
<ProcessValue datatype="text" value="None"/>

</attribute>

<attribute name="ultemStatus">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="ultemType" inuse="True">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="uOffscreen">

<ProcessValue datatype="flag" value="False"/>

</attribute>

<attribute name="uTopLevelWindowId" inuse="True">

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</attribute>

<attribute name="uLabeledBy">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="uEnabled">

<ProcessValue datatype="text" value="True"/>

</attribute>

<attribute name="uAcceleratorKey">

<ProcessValue datatype="text" value=""/>

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<attribute name="uAccessKey">

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<ProcessValue datatype="text" value="False"/>

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</attribute>

<attribute name="puLocalizedControlType">

<ProcessValue datatype="text" value="text"/>

</attribute>

<attribute name="puClassName">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="puName">

<ProcessValue datatype="text" value="My HTML Radio Button 1"/>

</attribute>

<attribute name="puAutomationId">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="MatchIndex">

<ProcessValue datatype="number" value="1"/>

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</attributes>

</element>

<element name="Radio Button 2 (UIA)">

<id>9c3936fc-b3e9-4b00-a13a-0c1f794c2d2f</id>
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<basetype>UIARadio</basetype>

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<ProcessValue datatype="number" value="-1699"/>

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</attribute>

<attribute name="uLocalizedControlType" inuse="True">

<ProcessValue datatype="text" value="radio button"/>

</attribute>

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<attribute name="ulsRequiredForForm">
<ProcessValue datatype="flag" value="False"/>
</attribute>
<attribute name="uName" inuse="True">
<ProcessValue datatype="text" value="My HTML Radio Button 2"/>
</attribute>
<attribute name="uOrientation">
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</attribute>
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<ProcessValue datatype="text" value=""/>
</attribute>
<attribute name="ultemType" inuse="True">
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<ProcessValue datatype="flag" value="False"/>
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<ProcessValue datatype="text" value=""/>
</attribute>
<attribute name="uLabeledBy">
<ProcessValue datatype="text" value=""/>
</attribute>
<attribute name="uEnabled">


```
<ProcessValue datatype="text" value="True"/>

</attribute>

<attribute name="uAcceleratorKey">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="uAccessKey">

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</attribute>

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</attribute>

</attributes>

</element>

</group>

<group name="Table">

<id>cacc5994-cc67-4d57-bfa2-5e772059b690</id>

<element name="Table (UIA)">

<id>dff63966-c083-4f6f-83fb-430a252f70d2</id>

<type>UIATable</type>

<basetype>UIATable</basetype>

<datatype>collection</datatype>

<diagnose>False</diagnose>

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</attribute>

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</attribute>

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<ProcessValue datatype="text" value=""/>

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<ProcessValue datatype="text" value=""/>

</attribute>

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</attribute>

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<ProcessValue datatype="number" value="1"/>

</attribute>

</attributes>

</element>

</group>

<type>Application</type>

<basetype>Application</basetype>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

<apptypeinfo>

<id>HTMLLaunch</id>

<parameters>

<parameter>

<name>Path</name>

<value>C:\Program Files\Internet Explorer\iexplore.exe</value>

</parameter>

<parameter>

<name>CommandLineParams</name>

<value>

</value>

</parameter>

<parameter>

<name>ActiveTabOnly</name>

<value>True</value>

</parameter>

<parameter>

<name>UseJavaInBrowser</name>

<value>False</value>

</parameter>

<parameter>

<name>ExcludeHTC</name>

<value>True</value>

</parameter>

<parameter>

<name>ProcessMode</name>

<value>Internal</value>

</parameter>

<parameter>

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<value>0</value>

</parameter>

</parameters>

</apptypeinfo>

</appdef>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

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<name>Clean Up</name>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<name>Launch</name>

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<zoom version="2">1.25</zoom>
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</view>

</subsheet>

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<name>Terminate</name>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<name>Table - Read Cell</name>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="18cfcc73-bbc5-4094-80b7-730c0107e0d8" type="Normal" published="True">

<name>Table - Read Row(s)</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="674cfb2f-957d-415f-85ce-49164bcb6d73" type="Normal" published="True">


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<name>Table - Row Count</name>

<view>

<camerax>22</camerax>

<cameray>-15</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="bdf36ff0-045c-45ce-ba59-c82a35972c48" type="Normal" published="True">

<name>Table - Column Count</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<loginhibit/>

<narrative>

</narrative>

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<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Segoe UI" size="10" style="Regular" color="000000"/>

<onsuccess>7251efb9-e945-462f-b198-f2272eea9f66</onsuccess>

</stage>

<stage stageid="7251efb9-e945-462f-b198-f2272eea9f66" name="End" type="End">
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<loginhibit/>

<narrative>

</narrative>

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<stage stageid="3c2fb3d0-089a-4ba7-8ec5-49936680a094" name="Stage1" type="ProcessInfo">

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</narrative>

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<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

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<reference>System.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

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</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

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<stage stageid="38c40dac-9a6f-4d41-aeaa-5fcdc22903fc" name="Clean Up" type="SubSheetInfo">

<subsheetsid>1858b4aa-9f16-49e4-b9d6-855c36424c8d</subsheetsid>

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</narrative>

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<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>
```

$$-105$$

60

30

Segoe UI 10 Regular 000000

f69b1ba7-b91a-474e-a000-a16db07fef38

End

cd0d2c77-33b3-46f0-8a6c-3c961c1c2223

loginhibit

narrative

15

60

60

30

Segoe UI 10 Regular 000000

Note1

1858b4aa-9f16-49e4-b9d6-855c36424c8d

Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

$$-180$$

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="e90d6753-7c1d-4c3e-8ac7-952c5f438eaa" name="Note2" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business object

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="d4fc4c6e-e475-4e96-b269-eeb4a6d08225" name="Terminate" type="SubSheetInfo">

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<choice reply="True">

<name>Radio Button 1 Check Exists</name>

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<element id="ee72645c-fcb6-47b3-a778-566bda83707f"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>5</timeout>

</stage>

<stage stageid="b041911e-939d-4967-a136-dc8d917fdc46" name="FAIL" type="Exception">

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<inputs>

<input type="number" name="First Row" stage="First Row"/>

<input type="number" name="Last Row" stage="Last Row"/>

<input type="collection" name="Expected Rows" stage="Expected Row Data"/>

</inputs>

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<element id="dff63966-c083-4f6f-83fb-430a252f70d2"/>

<action>

<id>UIATableReadCellText</id>

<arguments>

<argument>

<id>columnnumber</id>

<value>2</value>

</argument>

<argument>

<id>rownumber</id>

<value>2</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="18dacc35-3d3e-41d4-9011-d6e762160a7e" name="Cell Text" type="Data">

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<onfalse>967deb54-7051-4d2b-b357-8093c6cdf771</onfalse>

</stage>

<stage stageid="967deb54-7051-4d2b-b357-8093c6cdf771" name="FAIL" type="Exception">

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$$30$$


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<exception type="Bug" detail="&quot;The cell text was wrong, it read &quot;&amp;&amp;&amp;qu
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<onsuccess>e6c76ab7-e363-4504-a7d9-4bcacdf2af62</onsuccess>

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<step stage="Row Data">
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<element id="dff63966-c083-4f6f-83fb-430a252f70d2"/>

<action>

<id>UITableViewRows</id>

<arguments>

<argument>

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<id>firstrownumber</id>

<value>[First Row]</value>

</argument>

<argument>

<id>lastrownumber</id>

<value>[Last Row]</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="e6c76ab7-e363-4504-a7d9-4bcacdf2af62" name="Correct?" type="Decision">

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<onfalse>cab9baa8-06d7-4583-864c-5cea1d2bdca3</onfalse>

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</stage>

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<stage stageid="0a536c6c-4d9f-4057-80bf-ac80ef4282ce" name="Read Row Count" type="Read">

<subsheetsid>674cfb2f-957d-415f-85ce-49164bcb6d73</subsheetsid>

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<action>

<id>UIATableRowCount</id>

</action>

</step>

</stage>

<stage stageid="e3cbb433-4336-425a-b3d0-a37d24c9f3b5" name="Row Count" type="Data">
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<onfalse>10a68c8f-612c-419a-8225-dd42e64bc196</onfalse>

</stage>


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$$90$$
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</stage>

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<stage stageid="d675aaec-68fc-4fd1-b092-31ae3283e23e" name="Read Column Count" type="Read">
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<step stage="Column Count">
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<element id="dff63966-c083-4f6f-83fb-430a252f70d2"/>

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</action>


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<id>UIATableSetCellText</id>

<arguments>

<argument>

<id>rownumber</id>

<value>9</value>

</argument>

<argument>

<id>columnnumber</id>

<value>9</value>

</argument>

<argument>

<id>NewText</id>

<value>"Test"</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="b09d5f73-7a7e-45ba-b7de-fc7ca1329a61" name="Anchor1" type="Anchor">

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</stage>

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</arguments>

</action>

</step>

</stage>

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<basetype>UIAComboBox</basetype>

<datatype>text</datatype>

<diagnose>False</diagnose>

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</attribute>

<attribute name="uY">

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<attribute name="uClassName" comparisontype="Wildcard" inuse="True">

<ProcessValue datatype="text" value="WindowsForms10.COMBOBOX.app*"/>

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<attribute name="uAutomationId" inuse="True">

<ProcessValue datatype="text" value="ComboBox1"/>

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<attribute name="uLocalizedControlType" inuse="True">

<ProcessValue datatype="text" value="combo box"/>

</attribute>

<attribute name="ulsPassword">

<ProcessValue datatype="flag" value="False"/>

</attribute>

<attribute name="ulsRequiredForForm">

<ProcessValue datatype="flag" value="False"/>

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<attribute name="uName">

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<attribute name="uTopLevelWindowId" inuse="True">

<ProcessValue datatype="text" value="UIATestForm"/>

</attribute>

<attribute name="uLabeledBy">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="uEnabled">

<ProcessValue datatype="text" value="True"/>

</attribute>

<attribute name="uAcceleratorKey">

<ProcessValue datatype="text" value=""/>

</attribute>

<attribute name="uAccessKey">

<ProcessValue datatype="text" value=""/>

</attribute>
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<attribute name="uHelpText">
<ProcessValue datatype="text" value=""/>
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<ProcessValue datatype="text" value="window"/>
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<attribute name="puClassName">
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</attribute>
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</attribute>
</attributes>
</element>
<type>Application</type>
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<basetype>Application</basetype>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

<apptypeinfo>

<id>Win32Launch</id>

<parameters>

<parameter>

<name>Path</name>

<value>

</value>

</parameter>

<parameter>

<name>CommandLineParams</name>

<value>

</value>

</parameter>

<parameter>

<name>WorkingDirectory</name>

<value>

</value>

</parameter>

<parameter>

<name>NonInvasive</name>

<value>True</value>

</parameter>

<parameter>

<name>ProcessMode</name>

<value>Internal</value>

</parameter>

<parameter>

<name>ExternalProcessTimeout</name>

<value>0</value>

</parameter>

<parameter>

<name>Options</name>

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</value>

</parameter>

</parameters>

</apptypeinfo>

</appdef>

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<cameray>42</cameray>

<zoom version="2">1.25</zoom>

</view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

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</view>

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<subsheet subsheetid="c63d4618-bdea-444d-85e7-f030e48f32f2" type="Normal" published="True">

<name>Navigate Actions</name>

<view>

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<cameray>-45</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="7ac7685a-e3fa-4f0e-8286-66f11aa2771a" type="Normal" published="True">

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<zoom version="2">1.25</zoom>

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</subsheet>

<subsheet subsheetid="2dd5c774-c1cc-46bf-bde3-6a3fc6136b53" type="Normal" published="True">

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</subsheet>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

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</stage>

<stage stageid="4e34e582-0e9e-4cae-b53e-564ed6dad1e2" name="End" type="End">

<loginhibit/>

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</stage>

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<reference>System.dll</reference>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

</stage>

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</stage>

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<stage stageid="dcaf79b1-bf08-4551-85d5-1f2366c14259" name="Note1" type="Note">

<subsheetid>67df9d0b-842f-425f-9205-23432cd46378</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<display x="-180" y="60" w="180" h="230"/>

</stage>

<stage stageid="a6a030e0-f5dc-4647-a1c3-78a0655268c5" name="Note2" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<display x="-180" y="60" w="180" h="230"/>

</stage>

<stage stageid="fd5be254-af3f-4ffa-8b79-990e7026897d" name="Read Actions" type="SubSheetInfo">

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</stage>

<stage stageid="e11ab101-acf9-4797-96c3-4c8a8c6616a5" name="Start" type="Start">

<subsheetid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetid>

<loginhibit/>

<display x="15" y="-60"/>

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<stage stageid="889690f0-dae5-41c4-a125-8fa87ee45840" name="End" type="End">

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<loginhibit/>

<display x="15" y="165"/>

</stage>

<stage stageid="e73a2a3b-a729-49a1-8cc2-9b15a45e858d" name="Wait Actions" type="SubSheetInfo">

<subsheetsid>2dd5c774-c1cc-46bf-bde3-6a3fc6136b53</subsheetsid>

<display x="-150" y="-75" w="150" h="90"/>

</stage>

<stage stageid="3a21d1a4-723b-40e8-b727-3eb3a668b29a" name="Start" type="Start">

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<loginhibit/>

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<stage stageid="4b1c0ec3-64a4-48f0-a5b0-ed9288d474ac" name="End" type="End">

<subsheetsid>2dd5c774-c1cc-46bf-bde3-6a3fc6136b53</subsheetsid>

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</stage>

<stage stageid="cd8ec342-d58d-45e7-9a88-7b56e65d7fa8" name="O" type="WaitEnd">

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<loginhibit/>

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<onsuccess>f0a5c909-f441-4800-98b0-4e4f66410d54</onsuccess>

<groupid>dbd3bb18-e8e6-4a63-bc13-698e35af10f4</groupid>

</stage>

<stage stageid="b9f400b7-1424-412c-8bc9-2eade1afeb8f" name="Check Exists" type="WaitStart">

<subsheetsid>2dd5c774-c1cc-46bf-bde3-6a3fc6136b53</subsheetsid>

<loginhibit/>

<display x="-30" y="-45" w="60" h="60"/>

<groupid>dbd3bb18-e8e6-4a63-bc13-698e35af10f4</groupid>

<choices>

<choice reply="True">

<name>Button (UIA) Check Exists</name>

<distance>45</distance>

<ontrue>4b1c0ec3-64a4-48f0-a5b0-ed9288d474ac</ontrue>

<element id="f1f86e45-524d-477e-b96e-403d90f4d3e0"/>

<condition>

<id>CheckExists</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>30</timeout>

</stage>

<stage stageid="f0a5c909-f441-4800-98b0-4e4f66410d54" name="FAIL" type="Exception">

<subsheetsid>2dd5c774-c1cc-46bf-bde3-6a3fc6136b53</subsheetsid>

<display x="90" y="-45" w="30" h="30"/>

<exception type="Bug" detail=""The check exists didn't pass when it should have.""/>

</stage>

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<stage stageid="2a27f3b8-8859-4a31-abda-db771fae00d1" name="Get Current Value" type="Read">
<subsheetid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetid>
<loginhibit/>
<display x="15" y="-15" w="90" h="30"/>
<onsuccess>34c98851-56d2-43f4-9720-6c2cfdacc108</onsuccess>
<step stage="Current Value">
<element id="b3a3dc98-ebf6-4eea-a1ed-d6fe38a564af"/>
<action>
<id>UIAGetValue</id>
</action>
</step>
</stage>
<stage stageid="aca7bf57-8bd7-42b9-b5f2-20201b54f540" name="Get Name" type="Read">
<subsheetid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetid>
<loginhibit/>
<display x="15" y="75" w="90" h="30"/>
<onsuccess>24f9716b-b06a-4110-bbfc-8140e14ef769</onsuccess>
<step stage="Name">
<element id="f1f86e45-524d-477e-b96e-403d90f4d3e0"/>
<action>
<id>UIAGetName</id>
</action>
</step>
</stage>
<stage stageid="5f896e86-2d25-48a8-8573-1dc3e486e1a1" name="Drag / Drop" type="Navigate">
<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>
<loginhibit/>
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<math display="block">\frac{1}{x^2} = x^{-2} \Rightarrow \frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}>

</math></onsuccess>

<step>

<element id="a363e3fe-a670-4952-9ea2-e992cfeb6b62"/>

<action>

<id>UIADrag</id>

<arguments>

<argument>

<id>targx</id>

<value>10</value>

</argument>

<argument>

<id>targy</id>

<value>10</value>

</argument>

</arguments>

</action>

</step>

<step>

<element id="a363e3fe-a670-4952-9ea2-e992cfeb6b62"/>

<action>

<id>UIADrop</id>

<arguments>

<argument>

<id>targx</id>

<value>150</value>

</argument>

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<argument>

<id>targy</id>

<value>150</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="aaa7cfab-2dda-4ef0-ae37-0b11ca2cc74c" name="Global Mouse Click" type="Navigate">

<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>

<loginhibit/>

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<step>

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<action>

<id>UIMouseClick</id>

<arguments>

<argument>

<id>targx</id>

<value>1</value>

</argument>

<argument>

<id>targy</id>

<value>1</value>

</argument>

<argument>
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<id>newtext</id>

<value>

</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="217b7a6d-2c91-4fad-a268-b4a4e4475841" name="Global Mouse Click Centre" type="Na

<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>

<loginhibit/>

<display x="15" y="165" w="90" h="30"/>

<onsuccess>12826ae4-4642-4544-b394-674a9160fb39</onsuccess>

<step>

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<arguments>

<argument>

<id>newtext</id>

<value>

</value>

</argument>

</arguments>

</action>

</step>

</stage>


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<stage stageid="4d8f09f7-2876-4e16-9482-39c2a6dcf41d" name="Global Send Key" type="Navigate">
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<loginhibit/>
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<step>
<element id="701e5895-1ffd-4e23-a411-4aae5332bc96"/>
<action>
<id>UISendKeys</id>
<arguments>
<argument>
<id>newtext</id>
<value>" "</value>
</argument>
<argument>
<id>interval</id>
<value>
</value>
</argument>
</arguments>
</action>
</step>
</stage>
<stage stageid="7fd217c0-e652-4284-8379-4a555a6a4010" name="Verify" type="Navigate">
<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>
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<step>

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<action>

<id>Verify</id>

<arguments>

<argument>

<id>highlight</id>

<value>True</value>

</argument>

</arguments>

</action>

</step>

</stage>

<stage stageid="1b99b968-ba56-4fd9-b4d3-6526c8535e4f" name="Name" type="Data">

<subsheetid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetid>

<display x="120" y="75" w="90" h="30"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="24f9716b-b06a-4110-bbfc-8140e14ef769" name="Check" type="Decision">

<subsheetid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetid>

<loginhibit/>

<display x="15" y="120" w="90" h="30"/>

<decision expression="[Name]=[Correct Name]"/>

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<ontrue>889690f0-dae5-41c4-a125-8fa87ee45840</ontrue>

<onfalse>bac7daca-df98-42bf-8d44-2640856ec7c6</onfalse>

</stage>

<stage stageid="8bc54303-29fc-4b51-8f1c-d5557f66e5d4" name="Correct Name" type="Data">

<subsheetsid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetsid>

<display x="-90" y="75" w="90" h="30"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve">Press Me</initialvalue>

<private/>

</stage>

<stage stageid="bac7daca-df98-42bf-8d44-2640856ec7c6" name="FAIL" type="Exception">

<subsheetsid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetsid>

<display x="90" y="120" w="30" h="30"/>

<exception type="Bug" detail="&quot;The name wasn't as expected.&quot;"/>

</stage>

<stage stageid="2b7a4ce7-7b03-48a7-8efc-76e66eb171b2" name="Launch" type="SubSheetInfo">

<subsheetsid>aadfeb27-4e52-4101-bfe1-f8840a5b464b</subsheetsid>

<display x="-120" y="-120" w="150" h="90"/>

</stage>

<stage stageid="111649d5-976d-4213-bcbb-de1e28a668af" name="Start" type="Start">

<subsheetsid>aadfeb27-4e52-4101-bfe1-f8840a5b464b</subsheetsid>

<loginhibit/>

<display x="15" y="-150"/>

<inputs>

<input type="text" name="File Path" narrative="Add File Path" stage="File Path"/>

</inputs>

<onsuccess>bd6ca79e-b99a-4d56-95e2-0826777531f4</onsuccess>
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</stage>

<stage stageid="cca0dbd2-4182-4ba5-8f6f-0cdfbe36de2e" name="End" type="End">

<subsheetsid>aadfeb27-4e52-4101-bfe1-f8840a5b464b</subsheetsid>

<loginhibit/>

<display x="15" y="30"/>

</stage>

<stage stageid="34c98851-56d2-43f4-9720-6c2cfdacc108" name="Check" type="Decision">

<subsheetsid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetsid>

<loginhibit/>

<display x="15" y="30" w="90" h="30"/>

<decision expression="[Current Value]=[Correct Current Value]"/>

<ontrue>aca7bf57-8bd7-42b9-b5f2-20201b54f540</ontrue>

<onfalse>e1819f9f-9b9b-499e-a5a4-09687474fad9</onfalse>

</stage>

<stage stageid="e1819f9f-9b9b-499e-a5a4-09687474fad9" name="FAIL" type="Exception">

<subsheetsid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetsid>

<display x="90" y="30" w="30" h="30"/>

<exception type="Bug" detail=""The current value wasn't as expected.""/>

</stage>

<stage stageid="f33f6830-aa66-4fa9-b525-541fca7ff37f" name="Current Value" type="Data">

<subsheetsid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetsid>

<display x="120" y="-15" w="90" h="30"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

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<stage stageid="5f17aacc-f11d-4738-8ba0-2ddd6103e6f6" name="Correct Current Value" type="Data">
<subsheetid>7ac7685a-e3fa-4f0e-8286-66f11aa2771a</subsheetid>
<display x="-90" y="-15" w="90" h="30"/>
<datatype>text</datatype>
<initialvalue xml:space="preserve">0</initialvalue>
<private/>
<alwaysinit/>
</stage>

<stage stageid="674f2a37-2541-45f7-8ec0-21e38f474fed" name="Check" type="Decision">
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<display x="15" y="255" w="90" h="30"/>
<decision expression="[Current Value]=&quot;2&quot;"/>
<ontrue>4d8f09f7-2876-4e16-9482-39c2a6dcf41d</ontrue>
<onfalse>5fcfed12-3016-4a0b-aff1-cfc1912a4798</onfalse>
</stage>

<stage stageid="aa8ef27a-6662-4de2-816a-5b76bdc175c3" name="Check" type="Decision">
<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>
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<decision expression="[Current Value]=&quot;1&quot;"/>
<ontrue>217b7a6d-2c91-4fad-a268-b4a4e4475841</ontrue>
<onfalse>9ca07908-b97e-442e-9eb2-ce3d4519ad1d</onfalse>
</stage>

<stage stageid="9ca07908-b97e-442e-9eb2-ce3d4519ad1d" name="FAIL" type="Exception">
<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>
<display x="90" y="120" w="30" h="30"/>
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<exception type="Bug" detail=""The value wasn't as expected.""/>

</stage>

<stage stageid="4309c8c1-8a8b-42c7-ae5c-2ec51817bea9" name="Read Current Value" type="Read">

<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>

<loginhibit/>

<display x="15" y="75" w="90" h="30"/>

<onsuccess>aa8ef27a-6662-4de2-816a-5b76bdc175c3</onsuccess>

<step stage="Current Value">

<element id="b3a3dc98-ebf6-4eea-a1ed-d6fe38a564af"/>

<action>

<id>UIGetValue</id>

</action>

</step>

</stage>

<stage stageid="12826ae4-4642-4544-b394-674a9160fb39" name="Read Current Value" type="Read">

<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>

<loginhibit/>

<display x="15" y="210" w="90" h="30"/>

<onsuccess>674f2a37-2541-45f7-8ec0-21e38f474fed</onsuccess>

<step stage="Current Value">

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<action>

<id>UIGetValue</id>

</action>

</step>

</stage>

<stage stageid="353f4b23-3c46-4a1a-bff0-3a8fa5834d08" name="Current Value" type="Data">

<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>

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<datatype>text</datatype>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="db08e262-4790-4803-bce7-f36b7c7cb46c" name="Check" type="Decision">

<subsheetid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetid>

<loginhibit/>

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<decision expression="[Current Value]="Space Key Pressed""/>

<ontrue>7fd217c0-e652-4284-8379-4a555a6a4010</ontrue>

<onfalse>b2e321f9-3dbd-4bed-89a1-c84fd07fb6ac</onfalse>

</stage>

<stage stageid="5376f3c5-768b-4546-b5d1-876fb68052e4" name="Read Current Value" type="Read">

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<display x="15" y="345" w="90" h="30"/>

<onsuccess>db08e262-4790-4803-bce7-f36b7c7cb46c</onsuccess>

<step stage="Current Value">

<element id="9766c1f2-3789-40cf-b842-a09ba65f2bea"/>

<action>

<id>UIGetValue</id>

</action>

</step>

</stage>

<stage stageid="b2e321f9-3dbd-4bed-89a1-c84fd07fb6ac" name="FAIL" type="Exception">
<subsheetsid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetsid>
<display x="90" y="390" w="30" h="30"/>
<exception type="Bug" detail=""The value wasn't as expected.""/>
</stage>
<stage stageid="5fcfed12-3016-4a0b-aff1-cfc1912a4798" name="FAIL" type="Exception">
<subsheetsid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetsid>
<display x="90" y="255" w="30" h="30"/>
<exception type="Bug" detail=""The value wasn't as expected.""/>
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<stage stageid="51e88c7d-5159-47a4-89d1-9f1bf254ed5e" name="Terminate" type="SubSheetInfo">
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</stage>
<stage stageid="a4ea92bf-0f19-496c-9528-a671942aee38" name="Start" type="Start">
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<onsuccess>4ea691d2-3e3b-42d6-9cfb-ce32ee74b474</onsuccess>
</stage>
<stage stageid="0dc9b9f7-5729-4903-8134-47f78954bffb" name="End" type="End">
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<display x="15" y="-15"/>
</stage>
<stage stageid="bd6ca79e-b99a-4d56-95e2-0826777531f4" name="Launch" type="Navigate">
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<loginhibit/>

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<onsuccess>3256a691-bd11-4e04-8aca-206301691f87</onsuccess>

<step>

<element id="ab84aaeb-1376-4ff3-a289-3dd997a8b53b"/>

<action>

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<arguments>

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<id>Path</id>

<value>[QA Root] & [File Path]</value>

</argument>

<argument>

<id>CommandLineParams</id>

<value>

</value>

</argument>

<argument>

<id>WorkingDirectory</id>

<value>

</value>

</argument>

<argument>

<id>NonInvasive</id>

<value>

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<argument>

<id>ProcessMode</id>

<value>

</value>

</argument>

<argument>

<id>Options</id>

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</action>

</step>

</stage>

<stage stageid="3256a691-bd11-4e04-8aca-206301691f87" name="Wait Actions" type="SubSheet">

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<onsuccess>d9a0659f-7901-463d-b41b-cc66e372db27</onsuccess>

<processid>2dd5c774-c1cc-46bf-bde3-6a3fc6136b53</processid>

</stage>

<stage stageid="4ea691d2-3e3b-42d6-9cfb-ce32ee74b474" name="Terminate" type="Navigate">

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<loginhibit/>

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<onsuccess>0dc9b9f7-5729-4903-8134-47f78954bffb</onsuccess>

<step>

<element id="ab84aaeb-1376-4ff3-a289-3dd997a8b53b"/>

<action>

<id>Terminate</id>

</action>

</step>

</stage>

<stage stageid="c876b97d-ce92-4e13-ab74-2201f1a19454" name="Get Screen Bounds" type="Read">

<subsheetsid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetsid>

<loginhibit/>

<display x="15" y="-150" w="90" h="30"/>

<onsuccess>5f896e86-2d25-48a8-8573-1dc3e486e1a1</onsuccess>

<step stage="Screen Bounds">

<element id="f1f86e45-524d-477e-b96e-403d90f4d3e0"/>

<action>

<id>UIAGetElementScreenBounds</id>

</action>

</step>

</stage>

<stage stageid="a9ea5c7a-6b5d-4160-9b5c-718522a23696" name="Screen Bounds" type="Collection">

<subsheetsid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetsid>

<display x="120" y="-150" w="90" h="30"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

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<subsheetsid>c63d4618-bdea-444d-85e7-f030e48f32f2</subsheetsid>

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<display x="15" y="-60" w="90" h="30"/>

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<action>

<id>UIAGetElementScreenBounds</id>

</action>

</step>

</stage>

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<alwaysinit/>

</stage>

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<decision expression="[New Screen Bounds]&lt;&gt;[Screen Bounds]"/>

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<onfalse>e6943a88-687c-4617-b672-98be12784726</onfalse>

</stage>

<stage stageid="e6943a88-687c-4617-b672-98be12784726" name="FAIL" type="Exception">

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<display x="90" y="-15" w="30" h="30"/>

<exception type="Bug" detail=""The drag and drop didn't work.""/>

</stage>

<stage stageid="40eafc6f-8a86-4fb1-aecf-3433686b4617" name="Focus" type="Navigate">

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<display x="15" y="480" w="90" h="30"/>

<onsuccess>fc16a52a-e6e8-4a2b-9e5f-25647eb7e27d</onsuccess>

<step>

<element id="38ef8d09-0948-4563-8795-8021172d70cb"/>

<action>

<id>UIAFocus</id>

</action>

</step>

</stage>

<stage stageid="3c0977f1-12f7-49cb-8ccc-c8ce1cc899d8" name="QA Root" type="Data">

<subsheetid>aadfeb27-4e52-4101-bfe1-f8840a5b464b</subsheetid>

<loginhibit/>

<display x="-120" y="-30" w="150" h="30"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve">H:\automate\qa</initialvalue>

<exposure>Environment</exposure>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d9a0659f-7901-463d-b41b-cc66e372db27" name="Maximise" type="Navigate">

<subsHEETid>aadfeb27-4e52-4101-bfe1-f8840a5b464b</subsHEETid>

<loginhibit/>

<display x="15" y="-15" w="90" h="30"/>

<onsuccess>cca0dbd2-4182-4ba5-8f6f-0cdfbe36de2e</onsuccess>

<step>

<element id="f32f00c3-e1c2-4b06-8db0-046f2d7af4ef"/>

<action>

<id>MaximiseWindow</id>

</action>

</step>

</stage>

<stage stageid="7b6bb5f5-b162-4beb-b175-07102190e30e" name="Terminate" type="Navigate">

<subsHEETid>67df9d0b-842f-425f-9205-23432cd46378</subsHEETid>

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<display x="15" y="-60" w="90" h="30"/>

<onsuccess>05ceb7ae-90ea-4353-b50e-b92a88388867</onsuccess>

<step>

<element id="ab84aaeb-1376-4ff3-a289-3dd997a8b53b"/>

<action>

<id>Terminate</id>

</action>

</step>

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<onsuccess>13045638-d2c3-46f9-a8ac-4ed5b29c1729</onsuccess>

<groupid>f799a86d-9655-4fd6-a285-2161f98d4b39</groupid>

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<stage stageid="fc16a52a-e6e8-4a2b-9e5f-25647eb7e27d" name="Wait for Focus" type="WaitStart">

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<name>Toggle Button (UIA) Is Focused</name>

<distance>45</distance>

<ontrue>dd83d148-ee2c-4c66-964e-c738b35788ef</ontrue>

<element id="38ef8d09-0948-4563-8795-8021172d70cb"/>

<condition>

<id>UIAGetIsFocused</id>

</condition>

<comparetype>Equal</comparetype>

</choice>

</choices>

<timeout>5</timeout>

</stage>

<stage stageid="13045638-d2c3-46f9-a8ac-4ed5b29c1729" name="FAIL" type="Exception">

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<display x="90" y="540" w="30" h="30"/>

<exception type="Bug" detail=""The element wasn't in focus like expected.""/>

</stage>

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</argument>

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<argument>

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</argument>

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<id>Username</id>

<value>

</value>

</argument>

<argument>

<id>ChildIndex</id>

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</value>

</argument>

</arguments>

</action>

</step>

</stage>

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<element id="ab84aaeb-1376-4ff3-a289-3dd997a8b53b"/>

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<id>IsConnected</id>

</action>

</step>

</stage>

<stage stageid="0831c36b-3170-42d4-90a5-d4edfc86c2f7" name="Connected" type="Data">

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<subsheetid>3f744a85-a759-4ec2-9d49-9d4e9c3b9388</subsheetid>

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</stage>

<stage stageid="d84423b4-8ca0-4caa-8f66-0379ece23811" name="Connected?" type="Decision">

<subsheetid>3f744a85-a759-4ec2-9d49-9d4e9c3b9388</subsheetid>

<loginhibit/>

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<decision expression="[Connected]"/>

<ontrue>9d7ce973-947d-4192-adb6-f23234097efe</ontrue>

<onfalse>44f64280-6e4a-4a39-8ea7-7a4832df9d08</onfalse>

</stage>

<stage stageid="9d7ce973-947d-4192-adb6-f23234097efe" name="End1" type="End">

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</stage>

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</narrative>

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</stage>

<stage stageid="ec24ea0b-597f-46db-a876-cfccc9642a4" name="End" type="End">

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</stage>

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<globalcode></globalcode>

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<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

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<stage stageid="ed883a3e-71b3-44e3-acb7-208874ff309a" name="Note2" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

$$-180$$

$$60$$

$$180$$

$$230$$

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`</view>`

`<preconditions/>`

`<endpoint narrative=""/>`

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`</view>`

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<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

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<import>System.Drawing</import>

<import>System.Data</import>

</imports>

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<globalcode></globalcode>

<code></code>

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<subsheetsid>0a976588-9cf2-481c-b87f-a553f1968e19</subsheetsid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

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<stage stageid="9ddd81a8-036f-4606-b86e-073cdaf3a1da" name="Note2" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business o

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

```
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<type>Application</type>
<basetype>Application</basetype>
<id>b30f5d67-5c3c-49c9-8f9b-66d573097498</id>
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<condition narrative=""/>
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</preconditions>

<endpoint narrative=""/>

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</view>

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</sheet>

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<sheet sheetid="ccc0c027-8c9f-41f6-9ba6-af44eac6a9a9" type="Normal" published="True">

<name>Rename Field</name>

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<name>Delete Field</name>

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<zoom>1</zoom>

</view>

</subsheet>

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<name>Delete Column</name>

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<cameray>0</cameray>

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</view>

</subsheet>

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<name>Remove Null Rows</name>

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<name>Set Column Names From First Row</name>

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</view>

</subsheet>

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<name>Set Column Names From Expected Collection</name>

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<subsheet subsheetid="d1eee74f-1582-4c3e-96c8-b94f1535d7e1" type="Normal" published="True">

<name>Fill Blanks</name>

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</view>

</subsheet>

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<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

<reference>Microsoft.VisualBasic.dll</reference>

</references>

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<import>System.Drawing</import>

<import>System.Data</import>

<import>System.IO</import>

<import>System.XML</import>

<import>System.Diagnostics</import>

<import>Microsoft.VisualBasic</import>

<import>System.Data</import>

```
<import>system.text.regularexpressions</import>
```

```
<import>Microsoft.VisualBasic</import>
```

```
<import>System.Collections</import>
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```
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```

```
</imports>
```

```
<language>visualbasic</language>
```

```
<globalcode>
```

```
</globalcode>
```

```
<code>Public CommonDictionary as New System.Collections.Generic.Dictionary(Of String, String)
```

```
Private Iterator as Generic.IEnumerator(Of String)
```

```
Function CloneColumn(col As DataColumn) As DataColumn
```

```
Dim tp = col.GetType()
```

```
Return TryCast(
```

```
tp.GetMethod("Clone", BindingFlags.Instance Or BindingFlags.NonPublic).
```

```
Invoke(col, Nothing),
```

```
DataColumn
```

```
)
```

```
End Function
```

```
Function GetStringValue(row As DataRow, fieldName As String) As String
```

```
Dim col As DataColumn = row.Table.Columns(fieldName)
```

```
Dim val = row(fieldName)
```

```
Select Case True
```

```
Case IsDateColumn(col)  
Return CDate(val).ToString("d")
```

```
Case IsTimeColumn(col)  
Return CDate(val).ToString("T")
```

```
Case IsDateTimeColumn(col)  
Return CDate(val).ToString("G")
```

```
Case Else  
Return CStr(val)
```

```
End Select
```

```
End Function
```

```
Function GetBPType(col As DataColumn) As String
```

```
If col Is Nothing Then Return Nothing
```

```
If Not col.ExtendedProperties.ContainsKey("bptype") Then Return Nothing
```

```
Return col.ExtendedProperties("bptype").ToString()
```

```
End Function
```

```
Function IsDateColumn(col as DataColumn) as Boolean
```

```
Return (GetBPType(col) = "date")
```

```
End Function
```

```
Function IsTimeColumn(col as DataColumn) as Boolean
```

```
Return (GetBPType(col) = "time")
```

```
End Function
```

```
Function IsDateTimeColumn(col as DataColumn) as Boolean
```

```
Return (GetBPType(col) = "datetime")
```

End Function

Public Function GetDataTable(ByVal ColumnNamesCSV As String, ByVal ColumnTypesCSV As String) As

Dim objTable As DataTable

Dim objColumn As DataColumn

Dim aColumnNames As String() = ColumnNamesCSV.Split(",")

Dim aColumnTypes As String() = ColumnTypesCSV.Split(",")

Try

objTable = New DataTable

For i As Integer = 0 To aColumnNames.Length - 1

objColumn = New DataColumn

objColumn.DataType = System.Type.GetType(aColumnTypes(i).Trim)

objColumn.ColumnName = aColumnNames(i).Trim

objTable.Columns.Add(objColumn)

Next

Catch e As Exception

objTable = nothing

End Try

Return objTable

End Function

```
private function GetBluePrismDataTypes(DotNetType As Type) As String
```

```
    Select Case True
```

```
        Case DotNetType.Equals(GetType(TimeSpan))
```

```
            return "timespan"
```

```
        Case DotNetType Is GetType(DateTime)
```

```
            return "datetime"
```

```
        Case DotNetType Is GetType(Decimal), _
```

```
        DotNetType Is GetType(Integer), _
```

```
        DotNetType Is GetType(Double), _
```

```
        DotNetType Is GetType(Single)
```

```
            return "number"
```

```
        Case DotNetType Is GetType(System.Drawing.Bitmap)
```

```
            return "image"
```

```
        Case DotNetType Is GetType(Byte())
```

```
            return "binary"
```

```
        Case DotNetType Is GetType(Boolean)
```

```
            return "flag"
```

```
        Case DotNetType Is GetType(System.Data.DataTable)
```

```
            return "collection"
```

```
        Case Else
```

```
            return "text"
```

```
    End Select
```

```
End Function
```

```
Private Function CloneDataRow(R As DataRow, ColumnCount As Integer) As Object()
```

```
    Dim RetVal(ColumnCount - 1) As Object
```

For I As Integer = 0 to ColumnCount - 1

RetVal(I) = R(I)

Next

Return RetVal

End Function</code>

</stage>

<stage stageid="0bf7814a-647b-4bcb-b6a6-3d24dfd5b736" name="Clean Up" type="SubSheetInfo">

<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="0c56e2f8-68ce-48a3-97ad-81e1f076e9ce" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business object has been loaded.

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than after the business object has been loaded.

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="2271a79e-27e5-4434-b5be-146e02946317" name="new" type="Note">

<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="36451c72-b274-4817-a153-beb1e8a6e76a" name="Start" type="Start">

<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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```
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<onsuccess>9a8c4505-8606-4a0c-b118-09a6b9932b3b</onsuccess>

</stage>

<stage stageid="9a8c4505-8606-4a0c-b118-09a6b9932b3b" name="End" type="End">

<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>

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</stage>

<stage stageid="1d87c6c0-f260-46fc-99c2-ffc6f6ee0497" name="Sort Collection" type="SubSheetInfo">

<subsheetid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsheetid>

<narrative>Sorts a collection according to the specified field.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

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</stage>

<stage stageid="785a8eca-82a6-43fe-9f16-1803844d88ce" name="Start" type="Start">

<subsheetid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsheetid>

<loginhibit/>
```

```
<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection will have been sorted."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Collection" narrative="The collection to sort." stage="Collection In"/>

<input type="text" name="Sort Field" narrative="The field to sort by." stage="Sort Field"/>

<input type="flag" name="Ascending Order" narrative="True to sort in ascending order." stage="Ascending Order"/>

</inputs>

<onsuccess>fbac0e5c-5410-45f1-98d7-646797398b04</onsuccess>

</stage>

<stage stageid="0c95c136-f8cf-49a1-98c0-a4c1e2334eca" name="End" type="End">

<subsheetid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>
```

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="collection" name="Sorted Collection" narrative="The sorted collection." stage="Collection Out">

<output type="flag" name="Success" narrative="True if sorting was successful." stage="Success"/>

<output type="text" name="Message" narrative="An error message when sorting failed." stage="Message"/>

</outputs>

</stage>

<stage stageid="e8e991cc-351b-4484-9825-b5c1f0d894d1" name="Collection Out" type="Collection">

<subsheetid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-195</displayx>

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<displaywidth>150</displaywidth>

<displayheight>60</displayheight>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="fbac0e5c-5410-45f1-98d7-646797398b04" name="Sort Collection" type="Code">

<subsheetid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Collection" expr="[Collection In]"/>

<input type="text" name="Sort Field" expr="[Sort Field]"/>

<input type="flag" name="Ascending" expr="[Ascending Order]"/>

</inputs>

<outputs>

<output type="collection" name="Sorted Collection" stage="Collection Out"/>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>0c95c136-f8cf-49a1-98c0-a4c1e2334eca</onsuccess>

<code>Try

If Ascending Then

Collection.DefaultView.Sort = Sort_Field & " ASC"

Else

Collection.DefaultView.Sort = Sort_Field && " DESC"

End If

Sorted_Collection = Collection.DefaultView.ToTable

Success = True

Message = ""

Catch e As Exception

Success = False

Message = e.Message

End Try</code>

</stage>

<stage stageid="6f6e54f2-77b8-4f24-ae2f-46a2143d9815" name="Ascending Order" type="Data">

<subsheetid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsheetid>

<narrative>

```
</narrative>

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<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

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<datatype>flag</datatype>

<initialvalue>True</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2fb49db2-332e-4bdb-a52e-53546b2a25e8" name="Message" type="Data">

<subsheetsid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsheetsid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="8170a296-23ef-4f36-88ea-12b93bc41486" name="Success" type="Data">

<subsheetsid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsheetsid>
```

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d46e7f41-9e7a-4a0a-b1be-d440d57e4020" name="Sort Field" type="Data">

<subsheetsid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsheetsid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="adfd612b-98f8-4902-8526-2bda2e03f814" name="Get Collection Fields" type="SubSheet">

<subsheetid>e277cc2b-72b8-47e9-8a1b-e8530eb19a09</subsheetid>

<narrative>Creates a collection with a Name and Datatype field which is then populated using the incoming

<displayx>-195</displayx>

<displayy>-105</displayy>

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</stage>

<stage stageid="73b6f098-584e-441e-8b2d-e231b971bdb2" name="Start" type="Start">

<subsheetid>e277cc2b-72b8-47e9-8a1b-e8530eb19a09</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="A new collection will be created containing the collections field data."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Input Collection" narrative="The collection to get the fields from." stage="In

</inputs>

<onsuccess>39b91b36-f03d-4fa7-9bf2-47470e1d9703</onsuccess>

</stage>

<stage stageid="e2308e18-4f98-4f62-9ff6-a4c52222c3aa" name="End" type="End">

<subsHEETid>e277cc2b-72b8-47e9-8a1b-e8530eb19a09</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

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<displayheight>30</displayheight>

<outputs>

<output type="collection" name="Collection Fields" narrative="A collection containing the fields." stage="Fi

</outputs>

</stage>

<stage stageid="39b91b36-f03d-4fa7-9bf2-47470e1d9703" name="Get Collection Fields" type="Code">

<subsHEETid>e277cc2b-72b8-47e9-8a1b-e8530eb19a09</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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<displaywidth>90</displaywidth>

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<inputs>

```
<input type="collection" name="Input Collection" expr="[Input Collection]"/>
```

```
</inputs>
```

```
<outputs>
```

```
<output type="collection" name="Fields" stage="Fields"/>
```

```
</outputs>
```

```
<onsuccess>e2308e18-4f98-4f62-9ff6-a4c52222c3aa</onsuccess>
```

```
<code>Fields = New DataTable()
```

```
Fields.Columns.Add("Field Name", GetType(String))
```

```
Fields.Columns.Add("Data Type", GetType(String))
```

```
For Each Column As DataColumn In Input_Collection.Columns
```

```
Dim DataType As String = GetBluePrismDataType(Column.DataType)
```

```
Fields.Rows.Add(New Object() {Column.ColumnName, DataType})
```

```
Next
```

```
</code>
```

```
</stage>
```

```
<stage stageid="a16b1987-a205-4bf6-8a33-ed2167c201ff" name="Fields" type="Collection">
```

```
<subsheetid>e277cc2b-72b8-47e9-8a1b-e8530eb19a09</subsheetid>
```

```
<narrative>
```

```
</narrative>
```

```
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```

```
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```

```
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```

```
<displayheight>60</displayheight>
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```
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```

```
<datatype>collection</datatype>
```

```
<private/>
```

```
<alwaysinit/>

<collectioninfo>

<field name="Field Name" type="text"/>

<field name="Data Type" type="text"/>

</collectioninfo>

</stage>

<stage stageid="15198914-f283-4549-a823-c7b71d71d160" name="Utility Functions Test" type="SubSheet">

<subsheets>53950e2c-2499-41fc-aed2-207a6c7431fd</subsheets>

<narrative>

</narrative>

<displayx>-195</displayx>

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</stage>

<stage stageid="6b30836d-2593-48c6-a021-b6b3e92ad88a" name="Start" type="Start">

<subsheets>53950e2c-2499-41fc-aed2-207a6c7431fd</subsheets>

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<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>f5830837-58db-473d-b7dc-4651a10f79c6</onsuccess>
```

```
</stage>

<stage stageid="5a5bf1e7-2072-4226-96ba-ab3d0a656589" name="End" type="End">

<subsheetid>53950e2c-2499-41fc-aed2-207a6c7431fd</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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</stage>

<stage stageid="f5830837-58db-473d-b7dc-4651a10f79c6" name="Get Collection Fields" type="SubSheet

<subsheetid>53950e2c-2499-41fc-aed2-207a6c7431fd</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-30</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Input Collection" expr="[Defined Collection 1]"/>

</inputs>

<outputs>

<output type="collection" name="Collection Fields" stage="Collection Fields"/>
```

```
</outputs>

<onsuccess>5a5bf1e7-2072-4226-96ba-ab3d0a656589</onsuccess>

<processid>e277cc2b-72b8-47e9-8a1b-e8530eb19a09</processid>

</stage>

<stage stageid="d402363f-8a48-4418-b0d9-2bef5037bc67" name="Input Collection" type="Collection">

<subsheetsid>e277cc2b-72b8-47e9-8a1b-e8530eb19a09</subsheetsid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e8e6edcb-f2fe-4582-9037-5ddb4ca15572" name="Collection Fields" type="Collection">

<subsheetsid>53950e2c-2499-41fc-aed2-207a6c7431fd</subsheetsid>

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<datatype>collection</datatype>
```

```
<private/>

<alwaysinit/>

</stage>

<stage stageid="980dd5f0-a047-4672-9a7a-18632a5826a0" name="Defined Collection 1" type="Collection

<subsheetid>53950e2c-2499-41fc-aed2-207a6c7431fd</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

<collectioninfo>

<field name="My Text Field" type="text"/>

<field name="My Number Field" type="number"/>

<field name="My DateTime Field" type="datetime"/>

<field name="My TimeSpan Field" type="timespan"/>

<field name="My Flag Field" type="flag"/>

<field name="My Image Field" type="image"/>

</collectioninfo>

<initialvalue>

<row>

<field name="My Text Field" type="text" value="Test Text"/>
```

```
<field name="My Number Field" type="number" value="5"/>
<field name="My DateTime Field" type="datetime" value="2009-07-23 01:46:26Z"/>
<field name="My TimeSpan Field" type="timespan" value="00:03:42"/>
<field name="My Flag Field" type="flag" value="True"/>
<field name="My Image Field" type="image" value=""/>
</row>
<row>
<field name="My Text Field" type="text" value="asdf"/>
<field name="My Number Field" type="number" value="10"/>
<field name="My DateTime Field" type="datetime" value=""/>
<field name="My TimeSpan Field" type="timespan" value="00:00:00"/>
<field name="My Flag Field" type="flag" value="False"/>
<field name="My Image Field" type="image" value=""/>
</row>
</initialvalue>
</stage>
<stage stageid="0e6f80ff-bfb9-4d47-8e5a-5299a5873467" name="Read Collection Field" type="SubSheet">
<subsheetid>198ce3c6-ecbf-4203-a609-b15429defe0e</subsheetid>
<narrative>Reads a field with a given name and at the specified row from the collection.</narrative>
<displayx>-195</displayx>
<displayy>-105</displayy>
<displaywidth>150</displaywidth>
<displayheight>90</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
</stage>
<stage stageid="9d660720-4bed-4ea8-8ad6-56fa0b19cfb4" name="Start" type="Start">
<subsheetid>198ce3c6-ecbf-4203-a609-b15429defe0e</subsheetid>
```

```
<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="number" name="Row Index" narrative="The row index within the collection to read from. The

<input type="collection" name="Collection" narrative="The collection to read." stage="Collection"/>

<input type="text" name="Field Name" narrative="The field within the collection to read." stage="Field Nam

</inputs>

<onsuccess>c4bf6e49-1d07-4d60-8b44-fd35a2009654</onsuccess>

</stage>

<stage stageid="2a6d86a8-8937-4d4b-9da4-32813d06a0bf" name="End" type="End">

<subsheetid>198ce3c6-ecbf-4203-a609-b15429defe0e</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Value Read" narrative="The value of the requested field as text." stage="Value
```



```
</outputs>

</stage>

<stage stageid="d43ae257-4559-4fa8-9b0b-1f49bd80a301" name="Row Index" type="Data">

<subsheetid>198ce3c6-ecbf-4203-a609-b15429defe0e</subsheetid>

<narrative>

</narrative>

<displayx>90</displayx>

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<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="bd207bc4-8fe0-4f01-94e6-b289cdb60e38" name="Collection" type="Collection">

<subsheetid>198ce3c6-ecbf-4203-a609-b15429defe0e</subsheetid>

<narrative>

</narrative>

<displayx>225</displayx>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>collection</datatype>

<private/>
```

```
<alwaysinit/>

</stage>

<stage stageid="745ce225-df49-4b02-b12c-e9e2068ca6aa" name="Field Name" type="Data">

<subsheetid>198ce3c6-ecbf-4203-a609-b15429defe0e</subsheetid>

<narrative>

</narrative>

<displayx>150</displayx>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="c4bf6e49-1d07-4d60-8b44-fd35a2009654" name="Read Field" type="Code">

<subsheetid>198ce3c6-ecbf-4203-a609-b15429defe0e</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>0</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>
```

<input type="collection" name="Coll" expr="[Collection]"/>

<input type="text" name="FieldName" expr="[Field Name]"/>

<input type="number" name="RowIndex" expr="[Row Index]"/>

</inputs>

<outputs>

<output type="text" name="Value Read" stage="Value Read"/>

</outputs>

<onsuccess>2a6d86a8-8937-4d4b-9da4-32813d06a0bf</onsuccess>

<code>

If RowIndex < 0 OrElse Coll.Rows.Count <= RowIndex Then

Throw New ApplicationException("The supplied row index falls outside of the valid range.")

End If

If Not Coll.Columns.Contains(FieldName) Then

Throw New ApplicationException("The collection does not contain a field with the name '" & FieldName & "'")

End If

Value_Read = GetStringValue(Coll.Rows(RowIndex), FieldName)</code>

</stage>

<stage stageid="43376e9f-73fa-4757-affa-330da5d1e6b1" name="Value Read" type="Data">

<subsheetid>198ce3c6-ecbf-4203-a609-b15429defe0e</subsheetid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

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<initialvalue/>
<private/>
<alwaysinit/>
</stage>
<stage stageid="ee1c02ab-bf62-48df-b0de-79c4f254d5df" name="Set Collection Field" type="SubSheetInf
<subsheetid>05992810-1be4-4455-84e8-10579308ab87</subsheetid>
<narrative>Updates a single value in a collection by the given field name and row index.</narrative>
<displayx>-195</displayx>
<displayy>-105</displayy>
<displaywidth>150</displaywidth>
<displayheight>90</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
</stage>
<stage stageid="4fe6d4f3-e989-4636-b373-9a32fc41d450" name="Start" type="Start">
<subsheetid>05992810-1be4-4455-84e8-10579308ab87</subsheetid>
<loginhibit/>
<narrative>
</narrative>
<displayx>120</displayx>
<displayy>-105</displayy>
<displaywidth>60</displaywidth>
<displayheight>30</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<inputs>
<input type="number" name="Row Index" narrative="The index of the row in which to set the value. The inc
```

```
<input type="collection" name="Collection" narrative="The collection in which to set the value." stage="Coll
<input type="text" name="Field Name" narrative="The name of the field in which to set the value" stage="F
<input type="text" name="New Value" narrative="The value as text to set." stage="New Value"/>
</inputs>

<onsuccess>c7b9c9ed-85d9-4449-a150-5182797dc6f3</onsuccess>

</stage>

<stage stageid="2be33601-0c29-45c7-bc7e-1a5a8d1c19b2" name="End" type="End">

<subsheetid>05992810-1be4-4455-84e8-10579308ab87</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>120</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="collection" name="Updated Collection" narrative="The collection which now has the value se
</outputs>

</stage>

<stage stageid="e2d67695-6463-4e93-b5cd-e3b9805bb0cf" name="Row Index" type="Data">

<subsheetid>05992810-1be4-4455-84e8-10579308ab87</subsheetid>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>
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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="26046a1c-efef-4b6b-baa7-1880ae887576" name="Collection" type="Collection">

<subsheetid>05992810-1be4-4455-84e8-10579308ab87</subsheetid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

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<alwaysinit/>

</stage>

<stage stageid="9459f512-1cb5-4884-b551-4dcace90d77f" name="Field Name" type="Data">

<subsheetid>05992810-1be4-4455-84e8-10579308ab87</subsheetid>

<narrative>

</narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="c7b9c9ed-85d9-4449-a150-5182797dc6f3" name="Set Field" type="Code">

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<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Coll" expr="[Collection]"/>

<input type="text" name="FieldName" expr="[Field Name]"/>

<input type="number" name="RowIndex" expr="[Row Index]"/>

<input type="text" name="New Value" expr="[New Value]"/>

</inputs>

<outputs>

<output type="collection" name="Updated Collection" stage="Updated Collection"/>

</outputs>

<onsuccess>2be33601-0c29-45c7-bc7e-1a5a8d1c19b2</onsuccess>

<code>

If RowIndex < 0 OrElse Coll.Rows.Count <= RowIndex Then

Throw New ApplicationException("The supplied row index falls outside of the valid range.")

End If

If Not Coll.Columns.Contains(FieldName) Then

Throw New ApplicationException("The collection does not contain a field with the name '" & FieldName & "'")

End If

Coll.Rows(RowIndex)(FieldName) = New_Value

Updated_Collection = Coll</code>

</stage>

<stage stageid="2c198fde-25d6-4009-a434-256fd08044b1" name="New Value" type="Data">

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<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>


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<stage stageid="532e300d-c8f5-4049-9b1e-490a9a85884c" name="Updated Collection" type="Collection">
<subsheetid>05992810-1be4-4455-84e8-10579308ab87</subsheetid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="6164801d-51c0-428e-976d-23828f70767d" name="Collection Contains Field" type="SubS
<subsheetid>7a9aa259-fe07-4035-8411-23737559c975</subsheetid>

<narrative>Tests a collection to see whether it contains a specific field.</narrative>

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<displayy>-105</displayy>

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<displayheight>90</displayheight>

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</stage>

<stage stageid="1ed16edd-07a7-459b-abc4-c29fc16117eb" name="Start" type="Start">

<subsheetid>7a9aa259-fe07-4035-8411-23737559c975</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>
```

```
</preconditions>

<postconditions>

<condition narrative="Whether the collection contains the field will have been determined."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<inputs>

<input type="collection" name="Input Collection" narrative="The collection to check." stage="Input Collection"/>

<input type="text" name="Field" narrative="The field to see if the collection has." stage="Field"/>

</inputs>

<onsuccess>a76de6a5-ad0f-42b0-8cea-1cc827be1d45</onsuccess>

</stage>

<stage stageid="15854162-6197-477a-873b-73c9b453d0d3" name="End" type="End">

<subsheetid>7a9aa259-fe07-4035-8411-23737559c975</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>
```

```
<outputs>

<output type="flag" name="Success" narrative="True if the collection contains the field." stage="Success"/>

<output type="text" name="Error Message" narrative="Unused" stage="Error Message"/>

</outputs>

</stage>

<stage stageid="a76de6a5-ad0f-42b0-8cea-1cc827be1d45" name="Get Collection Fields" type="SubSheet">

<subsheetid>7a9aa259-fe07-4035-8411-23737559c975</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>-45</displayy>

<displaywidth>90</displaywidth>

<displayheight>60</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Input Collection" expr="[Input Collection]"/>

</inputs>

<outputs>

<output type="collection" name="Collection Fields" stage="Field Names"/>

</outputs>

<onsuccess>73ed00ea-d816-4343-8fe2-09924b85491f</onsuccess>

<processid>e277cc2b-72b8-47e9-8a1b-e8530eb19a09</processid>

</stage>

<stage stageid="09779833-6862-44cb-a355-04cb35350208" name="Input Collection" type="Collection">

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<narrative>
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</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="1343f537-262d-4113-8953-31173a54fdf9" name="Field" type="Data">

<subsheetsid>7a9aa259-fe07-4035-8411-23737559c975</subsheetsid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="73ed00ea-d816-4343-8fe2-09924b85491f" name="Loop Start Collection Fields" type="Lo

<subsheetsid>7a9aa259-fe07-4035-8411-23737559c975</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<onsuccess>11a28026-8164-4066-97bb-6f7cc6a3f6de</onsuccess>

<groupid>53f9e518-2d0e-4a03-a2ac-5ffa45e0ab8a</groupid>

<looptype>ForEach</looptype>

<loopdata>Field Names</loopdata>

</stage>

<stage stageid="c2b21dab-e784-43a7-b09a-19e8bf2d5672" name="Loop End Collection Fields" type="Loop End Collection Fields">

<subsheetsid>7a9aa259-fe07-4035-8411-23737559c975</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<onsuccess>15854162-6197-477a-873b-73c9b453d0d3</onsuccess>

<groupid>53f9e518-2d0e-4a03-a2ac-5ffa45e0ab8a</groupid>

</stage>

<stage stageid="04208d31-4ee8-45a6-af69-2dd8140cc92a" name="Field Names" type="Collection">

<subsheetsid>7a9aa259-fe07-4035-8411-23737559c975</subsheetsid>

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<narrative>

</narrative>

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<displayheight>60</displayheight>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

<collectioninfo>

<field name="Field Name" type="text"/>

<field name="Data Type" type="text"/>

</collectioninfo>

</stage>

<stage stageid="d010b7fb-5d33-4636-bea8-2195b0f22738" name="Success" type="Data">

<subsheetsid>7a9aa259-fe07-4035-8411-23737559c975</subsheetsid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>
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<alwaysinit/>

</stage>

<stage stageid="ac2d5cc5-ddee-4785-bf6a-410b0e478722" name="Error Message" type="Data">

<subsheetid>7a9aa259-fe07-4035-8411-23737559c975</subsheetid>

<narrative>

</narrative>

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<displaywidth>120</displaywidth>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="11a28026-8164-4066-97bb-6f7cc6a3f6de" name="Match?" type="Decision">

<subsheetid>7a9aa259-fe07-4035-8411-23737559c975</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>105</displayy>

<displaywidth>60</displaywidth>

<displayheight>60</displayheight>

<decision expression="[Field Names.Field Name] = Trim([Field])"/>

```
<ontrue>95c39a4f-2e55-45cb-a622-5cdec6b2d75b</ontrue>

<onfalse>c2b21dab-e784-43a7-b09a-19e8bf2d5672</onfalse>

</stage>

<stage stageid="6bd78de4-b21e-4741-af66-a88c72496d0f" name="anchor2" type="Anchor">

<subsheetid>7a9aa259-fe07-4035-8411-23737559c975</subsheetid>

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<narrative>

</narrative>

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<displayy>240</displayy>

<displaywidth>10</displaywidth>

<displayheight>10</displayheight>

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<onsuccess>15854162-6197-477a-873b-73c9b453d0d3</onsuccess>

</stage>

<stage stageid="95c39a4f-2e55-45cb-a622-5cdec6b2d75b" name="Set Success" type="Calculation">

<subsheetid>7a9aa259-fe07-4035-8411-23737559c975</subsheetid>

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<narrative>

</narrative>

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<onsuccess>6bd78de4-b21e-4741-af66-a88c72496d0f</onsuccess>

<calculation expression="True" stage="Success"/>
```



```
</stage>

<stage stageid="e6748536-1050-482b-86e6-cd57cce3bc6d" name="Copy Rows" type="SubSheetInfo">

<subsheetid>cdf2a7f1-a351-441a-8d36-bc92af66650a</subsheetid>

<narrative>Copies the rows of the given collection into a new collection.</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>
```

```
<stage stageid="46e0886c-ea0a-4778-ad1e-9b7878e04a43" name="Append Rows to Collection" type="SubSheetInfo">

<subsheetid>51f694a8-5305-4a38-9b41-a98998f2f7ca</subsheetid>

<narrative>Combines two collections into one, provided they share the same set of fields</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

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</stage>
```

```
<stage stageid="d3ec306e-f0c9-4bbc-a4da-a38b21969f5c" name="Reverse Collection" type="SubSheetInfo">

<subsheetid>ffab882f-007c-48a5-8f84-8f5f1bfd4d6a</subsheetid>

<narrative>Reverses the order of the rows in the collection.</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>
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</stage>

<stage stageid="98b20289-3b73-4776-9912-d679291e392e" name="Reverse Collection" type="Code">

<subsheetid>ffab882f-007c-48a5-8f84-8f5f1bfd4d6a</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="CollectionIn" expr="[Collection In]"/>

</inputs>

<outputs>

<output type="collection" name="CollectionOut" stage="Collection Out"/>

</outputs>

<onsuccess>661b2b7b-7862-4db1-b71c-747437b534da</onsuccess>

<code>If CollectionIn.Columns.Count = 0 Then Throw new ApplicationException("Zero columns in collection")

CollectionOut = CollectionIn.Clone()

For I As integer = CollectionIn.Rows.Count - 1 To 0 Step -1

Dim Objs(CollectionIn.Columns.Count - 1) As Object

For J As integer = 0 to CollectionIn.Columns.Count - 1

Objs(J) = collectionIn.Rows(I)(J)

Next

```
CollectionOut.Rows.Add(Objs)

Next</code>

</stage>

<stage stageid="48fd9b49-12a4-490d-8741-7cb0e6de6ac2" name="Collection In" type="Collection">

<subsheetsid>ffab882f-007c-48a5-8f84-8f5f1bfd4d6a</subsheetsid>

<narrative>

</narrative>

<displayx>135</displayx>

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<displayheight>60</displayheight>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

<initialvalue>

<row>

<field name="CIS" type="number" value="1"/>

<field name="Sort Code" type="text" value="123456"/>

<field name="Account Number" type="text" value="12345678"/>

<field name="Balance" type="number" value="1"/>

<field name="Cancelled Items" type="text" value=""/>

</row>

<row>

<field name="CIS" type="number" value="3"/>

<field name="Sort Code" type="text" value="223456"/>

<field name="Account Number" type="text" value="22345678"/>
```

```
<field name="Balance" type="number" value="2"/>
<field name="Cancelled Items" type="text" value=""/>
</row>
<row>
<field name="CIS" type="number" value="2"/>
<field name="Sort Code" type="text" value="323456"/>
<field name="Account Number" type="text" value="32345678"/>
<field name="Balance" type="number" value="3"/>
<field name="Cancelled Items" type="text" value=""/>
</row>
<row>
<field name="CIS" type="number" value="5"/>
<field name="Sort Code" type="text" value="423456"/>
<field name="Account Number" type="text" value="42345678"/>
<field name="Balance" type="number" value="4"/>
<field name="Cancelled Items" type="text" value=""/>
</row>
<row>
<field name="CIS" type="number" value="6"/>
<field name="Sort Code" type="text" value="523456"/>
<field name="Account Number" type="text" value="52345678"/>
<field name="Balance" type="number" value="5"/>
<field name="Cancelled Items" type="text" value=""/>
</row>
<row>
<field name="CIS" type="number" value="4"/>
<field name="Sort Code" type="text" value="623456"/>
```

```
<field name="Account Number" type="text" value="62345678"/>

<field name="Balance" type="number" value="6"/>

<field name="Cancelled Items" type="text" value=""/>

</row>

</initialvalue>

</stage>

<stage stageid="862d18c4-1bd0-4542-b3e2-8baf8a977af8" name="Start" type="Start">

<subsheetid>ffab882f-007c-48a5-8f84-8f5f1bfd4d6a</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection will have been sorted."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Collection" narrative="The collection to be reversed." stage="Collection In"

</inputs>

<onsuccess>98b20289-3b73-4776-9912-d679291e392e</onsuccess>

</stage>
```

```
<stage stageid="661b2b7b-7862-4db1-b71c-747437b534da" name="End" type="End">

<subsheetid>ffab882f-007c-48a5-8f84-8f5f1bfd4d6a</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="collection" name="Reversed Collection" narrative="The reversed collection." stage="Collecti

</outputs>

</stage>

<stage stageid="1965b145-70ec-4ee0-a936-3c32f57e587e" name="Collection Out" type="Collection">

<subsheetid>ffab882f-007c-48a5-8f84-8f5f1bfd4d6a</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>
```

```
</stage>

<stage stageid="ca7dbfca-b97f-43d4-9601-6fa4d4eacc4b" name="Rename Collection Fields" type="SubS

<subsheetsid>bcde64eb-f856-4440-a6c0-d83f40f0cf4b</subsheetsid>

<narrative>Renames the fields of a collection based on the fields of a given name mapping collection.</na

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<displayy>-105</displayy>

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<displayheight>90</displayheight>

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</stage>

<stage stageid="be8b9084-5d06-424d-8086-89d565e39887" name="Start" type="Start">

<subsheetsid>bcde64eb-f856-4440-a6c0-d83f40f0cf4b</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection fields will have been renamed."/>

</postconditions>

<narrative>

</narrative>

<displayx>105</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>
```

```
<input type="collection" name="Main Collection" narrative="The main collection, whose headers are to be r
<input type="collection" name="New Headers" narrative="A collection of new headers. This must be a one
</inputs>

<onsuccess>2dfc16b3-737a-4ff7-9843-9e66c78b23d4</onsuccess>

</stage>

<stage stageid="7eadbd5a-bba1-4128-ac2a-9bbe81d6ec77" name="End" type="End">

<subsheetid>bcde64eb-f856-4440-a6c0-d83f40f0cf4b</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<outputs>

<output type="collection" name="Amended Collection" stage="Amended Collection"/>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Error Message" stage="Error Message"/>

</outputs>

</stage>

<stage stageid="5c64c0b3-6819-410a-be71-587501d42504" name="New Headers" type="Collection">

<subsheetid>bcde64eb-f856-4440-a6c0-d83f40f0cf4b</subsheetid>

<narrative>

</narrative>

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```



```
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<datatype>collection</datatype>

<private/>

<alwaysinit/>

<initialvalue>

<row>

<field name="Column 1" type="text" value="Name"/>

<field name="Column 2" type="text" value="Age"/>

</row>

</initialvalue>

</stage>

<stage stageid="2dfc16b3-737a-4ff7-9843-9e66c78b23d4" name="Rename Headers" type="Code">

<subsheetid>bcde64eb-f856-4440-a6c0-d83f40f0cf4b</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>60</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Main Collection" expr="[Main Collection]"/>

<input type="collection" name="New Headers" expr="[New Headers]"/>

</inputs>
```

<outputs>

<output type="collection" name="Amended Collection" stage="Amended Collection"/>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Error Message" stage="Error Message"/>

</outputs>

<onsuccess>7eadbd5a-bba1-4128-ac2a-9bbe81d6ec77</onsuccess>

<code>If Main_Collection IsNot Nothing AndAlso New_Headers IsNot Nothing Then

If Main_Collection.Columns.Count = New_Headers.Columns.count Then

For Each Col1 As DataColumn In Main_Collection.Columns

If Not New_Headers.Columns.Contains(Col1.ColumnName) Then

Success = False

Error_Message = "New Headers collection does not contain the field '" & Col1.ColumnName &

Exit Sub

End If

Next

'We can now assume that fields match

'and start copying rows

For Each C As DataColumn In Main_Collection.Columns

Dim NewName As String = Cstr(New_Headers.Rows(0)(C.ColumnName))

If String.IsNullOrEmpty(NewName) Then

Throw New ApplicationException("Blank field names are not acceptable")

Else

C.ColumnName = Trim(NewName)

End If

Next

Main_Collection.AcceptChanges()

Amended_Collection = Main_Collection

Success = True

Else

Success = False

Error_Message = "Collection field definitions do not match - the number of columns in each is different."

End If

Else

Success = False

Error_Message = "Neither Collection may be null"

End If</code>

</stage>

<stage stageid="73981b01-1a93-4c6e-a35f-fa6c194f63ec" name="Success" type="Data">

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</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="73dcc958-035e-40f7-ab25-a8f22d06bf4f" name="Error Message" type="Data">

<subsheetid>bcde64eb-f856-4440-a6c0-d83f40f0cf4b</subsheetid>

<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="0af7f983-37fd-47c4-971a-5c0ca70b60c4" name="Main Collection" type="Collection">

<subsheetid>bcde64eb-f856-4440-a6c0-d83f40f0cf4b</subsheetid>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

<initialvalue>

<row>

```
<field name="Column 1" type="text" value="asdf"/>

<field name="Column 2" type="text" value="34"/>

</row>

</initialvalue>

</stage>

<stage stageid="e86fffb-d-3537-4ed9-9e32-20c8f55b6cb6" name="Amended Collection" type="Collection">

<subsheetsid>bcde64eb-f856-4440-a6c0-d83f40f0cf4b</subsheetsid>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="6b6aa002-ceed-4ea9-ab37-e3cc338e349c" name="Collection Contains Value" type="Sub

<subsheetsid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetsid>

<narrative>Searches for the existence of a value or a regular expression in a specified column in a collection

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<displayy>-105</displayy>

<displaywidth>270</displaywidth>

<displayheight>90</displayheight>

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</stage>
```

```
<stage stageid="29ece439-17ef-4972-aa97-b373f2d68616" name="Start" type="Start">

<subsHEETid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsHEETid>

<loginhibit/>

<preconditions>

<condition narrative="A collection exists with the specified column name which may or may not contain a p

<condition narrative="The collection being searched has no date or time columns (A code stage restriction)

<condition narrative=""/>

<condition narrative=""/>

</preconditions>

<postconditions>

<condition narrative="No change"/>

</postconditions>

<narrative>Note that if neither 'Exact Value' nor 'Regex' are supplied, this will always return FALSE / ie. no

<displayx>-30</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Collection" narrative="Required : The collection to search" stage="Collection

<input type="text" name="Column Name" narrative="Required : The name of the column to search" stage=

<input type="text" name="Exact Value" narrative="Optional : The exact value to search for - this is case ins

<input type="text" name="Regex" narrative="Optional : The regular expression to search for - this is case s

</inputs>

<onsuccess>aa1a4d89-5218-4bbe-a743-0d3484968cb6</onsuccess>

</stage>

<stage stageid="ebc6a036-6449-4acd-ac3c-bf1c0cdb652a" name="End" type="End">
```

<subsheetid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-30</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Contains Search Term" narrative="Flag indicating if the collection found the giv

<output type="collection" name="Groups" narrative="The groups defined in the regular expression when it

</outputs>

</stage>

<stage stageid="63287049-53dd-4e10-b6fa-809c255a8f63" name="Collection" type="Collection">

<subsheetid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

```
<stage stageid="14def48d-230f-4041-99c7-0af7c0dd5e0f" name="Column Name" type="Data">

<subsheetsid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetsid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="965f0a82-f3be-4fcf-b43d-33b5a31b45d1" name="Exact Value" type="Data">

<subsheetsid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetsid>

<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>
```



```
</stage>

<stage stageid="f2df8ab8-a7dc-408c-962c-efe2dd44d403" name="Regex" type="Data">

<subsheetid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetid>

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</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>
```

```
<stage stageid="6c87975d-a017-4b35-923d-19816f41b5b3" name="Contains Search Term" type="Data">

<subsheetid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetid>

<narrative>

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<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>
```

<alwaysinit/>

</stage>

<stage stageid="f7c0f14b-16b5-4e13-b3e9-71fd7bf59990" name="Groups" type="Collection">

<subsheetid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetid>

<narrative>

</narrative>

<displayx>-180</displayx>

<displayy>30</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

<collectioninfo>

<field name="Group" type="text"/>

</collectioninfo>

</stage>

<stage stageid="ca62b1b4-f73d-422a-b21a-ac4cfcc71041" name="Note2" type="Note">

<subsheetid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetid>

<loginhibit/>

<narrative>Inputs</narrative>

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</stage>

<stage stageid="86ee4f07-c603-44e1-b307-e53cd7d9eff4" name="Note2" type="Note">

<subsHEETid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsHEETid>

<loginhibit/>

<narrative>Outputs</narrative>

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<displayheight>30</displayheight>

</stage>

<stage stageid="a408f364-ecb4-4548-9556-57f4a26f3ada" name="Both Search Strings Empty?" type="De

<subsHEETid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-30</displayx>

<displayy>-30</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<decision expression="Len([Exact Value]) = 0 AND Len ([Regex]) = 0"/>

<ontrue>612f50dc-0fcc-4765-800b-e65e5bf3861f</ontrue>

<onfalse>7cdc88ed-891c-4f88-a51d-2da37bd56d4d</onfalse>

</stage>

<stage stageid="aa1a4d89-5218-4bbe-a743-0d3484968cb6" name="Trim Search Strings" type="MultipleC

<subsHEETid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsHEETid>

```
<loginhibit/>

<narrative>

</narrative>

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<displayy>-75</displayy>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>a408f364-ecb4-4548-9556-57f4a26f3ada</onsuccess>

<steps>

<calculation expression="Trim([Exact Value])" stage="Exact Value"/>

<calculation expression="Trim([Regex])" stage="Regex"/>

</steps>

</stage>

<stage stageid="612f50dc-0fcc-4765-800b-e65e5bf3861f" name="anchor3" type="Anchor">

<subsheetsid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>-30</displayy>

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<onsuccess>7e121ceb-3f72-4655-8e21-38d3e5be7cec</onsuccess>

</stage>

<stage stageid="7e121ceb-3f72-4655-8e21-38d3e5be7cec" name="anchor4" type="Anchor">
```

```
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<loginhibit/>

<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>ebc6a036-6449-4acd-ac3c-bf1c0cdb652a</onsuccess>

</stage>

<stage stageid="7cdc88ed-891c-4f88-a51d-2da37bd56d4d" name="Search Collection" type="Code">

<subsheetid>5b8e4ed2-8ba9-4b0f-966e-a0e392f44e7a</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="coll" expr="[Collection]"/>

<input type="text" name="colname" expr="[Column Name]"/>

<input type="text" name="exactVal" expr="[Exact Value]"/>

<input type="text" name="regexVal" expr="[Regex]"/>

</inputs>
```

<outputs>

<output type="flag" name="found" stage="Contains Search Term"/>

<output type="collection" name="groups" stage="Groups"/>

</outputs>

<onsuccess>ebc6a036-6449-4acd-ac3c-bf1c0cdb652a</onsuccess>

<code>If Not Coll.Columns.Contains(colname) Then

Throw New ApplicationException(String.Format(_

"The collection does not contain a field " & _

"with the name '{0}'", colname))

End If

Dim rx as Regex

If Not String.IsNullOrEmpty(exactVal) Then

rx = New Regex("^" & Regex.Escape(exactVal) & "\$", RegexOptions.IgnoreCase)

Else

' If ignore case is required it can be inlined using "(?i)..rest of search"

rx = New Regex(regexVal)

End If

' Initialise output params

found = False

groups = New DataTable()

groups.Columns.Add("Group", GetType(String))

For Each row as DataRow in coll.Rows

Dim val as String = CStr(row(colname))

```
Dim m as Match = rx.Match(val)
```

```
If m.Success Then
```

```
found = True
```

```
For i as Integer = 1 to m.Groups.Count-1
```

```
groups.Rows.Add(New Object() {m.Groups(i).Value})
```

```
Next
```

```
Return
```

```
End If
```

```
Next</code>
```

```
</stage>
```

```
<stage stageid="365e481a-8567-48cf-babf-40039e151df7" name="Delete Column" type="SubSheetInfo">
```

```
<subsHEETid>df662579-558c-4cc9-88df-8c680b67b41d</subsHEETid>
```

```
<narrative>Deletes a field from a collection.</narrative>
```

```
<displayx>-195</displayx>
```

```
<displayy>-105</displayy>
```

```
<displaywidth>150</displaywidth>
```

```
<displayheight>90</displayheight>
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```

```
</stage>
```

```
<stage stageid="4421e0d9-6181-4872-aa85-8ad310427d30" name="Start" type="Start">
```

```
<subsHEETid>df662579-558c-4cc9-88df-8c680b67b41d</subsHEETid>
```

```
<loginhibit/>
```

```
<preconditions>
```

```
<condition narrative="None."/>
```

```
</preconditions>
```

```
<postconditions>
```

```
<condition narrative="The collections field will have been removed."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Input Collection" narrative="The collection from which you want to delete a

<input type="text" name="Column Name" narrative="The column number to delete" stage="Column Name"

</inputs>

<onsuccess>000581d7-9978-4295-826f-a20472874878</onsuccess>

</stage>

<stage stageid="d0f8de6d-03ac-4a92-8658-0998d1849bdf" name="End" type="End">

<subsheetsid>df662579-558c-4cc9-88df-8c680b67b41d</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

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<outputs>

<output type="collection" name="Output Collection" narrative="A collection with a column removed" stage=
```



```
<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Error Message" stage="Message"/>

</outputs>

</stage>

<stage stageid="000581d7-9978-4295-826f-a20472874878" name="Remove Column" type="Code">

<subsheetid>df662579-558c-4cc9-88df-8c680b67b41d</subsheetid>

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<narrative>

</narrative>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="BP Collection In" expr="[Input Collection]"/>

<input type="text" name="Column Name" expr="[Column Name]"/>

</inputs>

<outputs>

<output type="collection" name="BP Collection Out" stage="Output Collection"/>

<output type="text" name="Error Message" stage="Message"/>

<output type="flag" name="Success" stage="Success"/>

</outputs>

<onsuccess>d0f8de6d-03ac-4a92-8658-0998d1849bdf</onsuccess>

<code>Try

BP_Collection_Out = BP_Collection_In

BP_Collection_Out.Columns.Remove(Column_Name)
```

Success = True

Catch e as Exception

Error_Message = e.ToString()

Success = False

End Try

</code>

</stage>

<stage stageid="140b41b2-3138-4b5d-b5f3-4bddff6db48f" name="Input Collection" type="Collection">

<subsHEETid>df662579-558c-4cc9-88df-8c680b67b41d</subsHEETid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="1ae60809-2da8-468d-8d88-e605b185530b" name="Output Collection" type="Collection">

<subsHEETid>df662579-558c-4cc9-88df-8c680b67b41d</subsHEETid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="787dae64-5d33-4783-84ff-db2365c12e31" name="Message" type="Data">

<subsheetsid>df662579-558c-4cc9-88df-8c680b67b41d</subsheetsid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="a3216578-e35c-4bf0-84db-80b9d3fe07e3" name="Success" type="Data">

<subsheetsid>df662579-558c-4cc9-88df-8c680b67b41d</subsheetsid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="714ec185-fd95-4265-88e6-54eb452242b3" name="Column Name" type="Data">

<subsheetsid>df662579-558c-4cc9-88df-8c680b67b41d</subsheetsid>

<narrative>

</narrative>

<displayx>210</displayx>

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<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="25782854-2b5d-4f7d-a1f4-671555060370" name="Remove Null Rows" type="SubSheet">

<subsheetsid>3a772458-463d-46cf-8451-6cf5b4aeae30</subsheetsid>

<narrative>Deletes rows in which a given key field is blank.</narrative>

<displayx>-180</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

```
<displayheight>90</displayheight>

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</stage>

<stage stageid="7b68a8ca-8280-464d-acac-807f219d226e" name="Set Column Names From First Row" type="Set Column Names From First Row">

<subsheetid>b8e3b975-d485-49a3-b962-864d13a96e05</subsheetid>

<narrative>If you have a collection with the column names all in the first row, this will set the column names to the first row.

Handy for collections read using Get Table</narrative>

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<stage stageid="966db302-1751-4a8a-bbbf-cbfc8ff28563" name="Start" type="Start">

<subsheetid>b8e3b975-d485-49a3-b962-864d13a96e05</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<inputs>

<input type="collection" name="Input Collection" narrative="The collection with the column to rename" stageid="966db302-1751-4a8a-bbbf-cbfc8ff28563">

</inputs>

<onsuccess>5732b352-4376-4727-b423-13df1e00f900</onsuccess>
```

```
</stage>

<stage stageid="80cc4a73-fa55-4504-bf38-941a29fd4499" name="End" type="End">

<subsheetid>b8e3b975-d485-49a3-b962-864d13a96e05</subsheetid>

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<outputs>

<output type="collection" name="Output Collection" narrative="The amended collection" stage="Output Co

</outputs>

</stage>

<stage stageid="5732b352-4376-4727-b423-13df1e00f900" name="Set Column Name" type="Code">

<subsheetid>b8e3b975-d485-49a3-b962-864d13a96e05</subsheetid>

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<inputs>

<input type="collection" name="Input Collection" expr="[Input Collection]"/>
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</inputs>

<outputs>

<output type="collection" name="Output Collection" stage="Output Collection"/>

</outputs>

<onsuccess>1129bf72-f0d4-4c3a-8823-68de39f5138b</onsuccess>

<code>

'Input_Collection.Columns(3).ColumnName="NewColumnName"

'Output_Collection = Input_Collection

Dim iThisColumn as integer = -1

For Each Column As DataColumn In Input_Collection.Columns

iThisColumn +=1

Column.ColumnName=CStr(Input_Collection.Rows.Item(0).Item(iThisColumn))

Next

Output_Collection = Input_Collection

'If RowIndex < 0 OrElse Coll.Rows.Count <= RowIndex Then

' Throw New ApplicationException("The supplied row index falls outside of the valid range.")

'End If

'If Not Coll.Columns.Contains(FieldName) Then

' Throw New ApplicationException("The collection does not contain a field with the name '" & fieldName & "'")

'End If

'Value_Read = CStr(Coll.Rows(RowIndex)(FieldName))</code>

</stage>

<stage stageid="83beff52-ce08-4f4c-acdd-39a43fce3528" name="Input Collection" type="Collection">

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<private/>

<alwaysinit/>

</stage>

<stage stageid="0735b980-7ff2-49c5-a67b-41a6444db630" name="Output Collection" type="Collection">

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<private/>

<alwaysinit/>

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<stage stageid="299628df-bec6-4f77-8b4a-c6bc38824e1c" name="Remove First Row" type="Action">

<subsheetid>b8e3b975-d485-49a3-b962-864d13a96e05</subsheetid>
```


<loginhibit/>

<narrative>First row was actually the header row, can now be deleted</narrative>

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<inputs>

<input type="text" name="Collection Name" narrative="The name of the collection to be modified" expr="&a

</inputs>

<onsuccess>80cc4a73-fa55-4504-bf38-941a29fd4499</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Remove Row"/>

</stage>

<stage stageid="1129bf72-f0d4-4c3a-8823-68de39f5138b" name="Output Collection" type="LoopStart">

<subsheetsid>b8e3b975-d485-49a3-b962-864d13a96e05</subsheetsid>

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</narrative>

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<onsuccess>299628df-bec6-4f77-8b4a-c6bc38824e1c</onsuccess>

<groupid>265b5de8-c5fa-44dc-bcd0-64db001c133a</groupid>

<looptype>ForEach</looptype>

<loopdata>Output Collection</loopdata>

```
</stage>

<stage stageid="35a49bfb-e611-4681-b332-cadbcfa74fc3" name="Output Collection" type="LoopEnd">

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</stage>

<stage stageid="d0febcbf9-b538-4995-85c1-02dddf5fb51" name="anchor1" type="Anchor">

<subsheetid>b8e3b975-d485-49a3-b962-864d13a96e05</subsheetid>

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<onsuccess>80cc4a73-fa55-4504-bf38-941a29fd4499</onsuccess>

</stage>

<stage stageid="7b3c5ed5-f585-4240-a2ab-8cb996684c24" name="Set Column Names From Expected C
```

<subsheetid>87541f35-d834-4d99-8fd3-16ec994a9990</subsheetid>

<narrative>Renames the fields of a collection to those of a collection containing expected field names.</na

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</stage>

<stage stageid="ae4a6ef5-a22c-4292-8471-eb02cdd4b1cf" name="End" type="End">

<subsheetid>87541f35-d834-4d99-8fd3-16ec994a9990</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<outputs>

<output type="collection" name="Output Collection" narrative="The collection with the renamed column" sta

</outputs>

</stage>

<stage stageid="130f8b77-3ec8-46c9-8826-e401399e4c92" name="Rename Column" type="Code">

<subsheetid>87541f35-d834-4d99-8fd3-16ec994a9990</subsheetid>

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<narrative>

</narrative>

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<inputs>

<input type="collection" name="Input Collection" expr="[Input Collection]"/>

<input type="collection" name="Expected Fields/Columns" expr="[Expected Fields/Columns]"/>

</inputs>

<outputs>

<output type="collection" name="Output Collection" stage="Output Collection"/>

</outputs>

<onsuccess>ae4a6ef5-a22c-4292-8471-eb02cdd4b1cf</onsuccess>

<code>Dim iTotalColumns as integer = Expected_Fields_Columns.Rows.Count-1

Dim iThisColumn as integer = -1

For Each Column As DataColumn In Input_Collection.Columns

If iThisColumn>=iTotalColumns Then Exit For

iThisColumn +=1

Column.ColumnName=CStr(Expected_Fields_Columns.Rows.Item(iThisColumn).Item(0))

Next

Output_Collection = Input_Collection</code>

</stage>

<stage stageid="9e32e67d-d7f9-46b2-8df2-6fca9a395352" name="Input Collection" type="Collection">

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<alwaysinit/>

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<stage stageid="c66d8d30-cef9-4cab-8ee8-2acb512a3129" name="Start" type="Start">

<subsheetsid>87541f35-d834-4d99-8fd3-16ec994a9990</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection fields will have been renamed."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

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<inputs>

<input type="collection" name="Input Collection" narrative="The collection with the column to rename" stage=

<input type="collection" name="Expected Fields/Columns" narrative="The expected column names" stage=
```

```
</inputs>

<onsuccess>130f8b77-3ec8-46c9-8826-e401399e4c92</onsuccess>

</stage>

<stage stageid="c865f7af-a9f9-4fb9-88da-e04e43b0bac8" name="Note1" type="Note">

<subsheetid>87541f35-d834-4d99-8fd3-16ec994a9990</subsheetid>

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<narrative>Inputs</narrative>

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</stage>

<stage stageid="c29dd25d-3cf7-4435-ba56-6f735329a71a" name="Output Collection" type="Collection">

<subsheetid>87541f35-d834-4d99-8fd3-16ec994a9990</subsheetid>

<narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

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<narrative>Outputs</narrative>

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</stage>

<stage stageid="688d2271-65ed-4be7-84b1-cbfe018c6777" name="Expected Fields/Columns" type="Collection">

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<datatype>collection</datatype>

<alwaysinit/>

<collectioninfo>

<field name="Column Name" type="text"/>

</collectioninfo>

</stage>

<stage stageid="df1f7e11-20da-4f67-a68c-bc7c03be861a" name="Fill Blanks" type="SubSheetInfo">

<subsheetid>d1eee74f-1582-4c3e-96c8-b94f1535d7e1</subsheetid>

<narrative>Fills a collection that has empty values with empty text.</narrative>

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</stage>

<stage stageid="7908b17c-920d-4114-9fa0-cd4f161c5185" name="Start" type="Start">

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<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection will have its empty values filled with empty text."/>

</postconditions>

<narrative>

</narrative>

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<inputs>

<input type="collection" name="Blanks" narrative="A collection with blank text fields" stage="Blanks"/>

</inputs>

<onsuccess>06913dc6-a17f-4d64-965d-7cb7642f486f</onsuccess>

</stage>


```
<stage stageid="544cc959-75ad-4b6c-a150-ce414ae50424" name="End" type="End">

<subsheetid>d1eee74f-1582-4c3e-96c8-b94f1535d7e1</subsheetid>

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<narrative>

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<outputs>

<output type="collection" name="No Blanks" narrative="The collection with empty string instead of blanks"

</outputs>

</stage>

<stage stageid="34873761-d9a4-4a71-9c63-993645ca4e22" name="Blanks" type="Collection">

<subsheetid>d1eee74f-1582-4c3e-96c8-b94f1535d7e1</subsheetid>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>
```

```
<stage stageid="5cfec416-7db4-4734-9a1f-76d62db9bbd9" name="No Blanks" type="Collection">

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<alwaysinit/>

</stage>

<stage stageid="06913dc6-a17f-4d64-965d-7cb7642f486f" name="Fill Blanks" type="Code">

<subsheetid>d1eee74f-1582-4c3e-96c8-b94f1535d7e1</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

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<inputs>

<input type="collection" name="Blanks" expr="[Blanks]"/>

</inputs>

<outputs>
```

<output type="collection" name="No Blanks" stage="No Blanks"/>

</outputs>

<onsuccess>544cc959-75ad-4b6c-a150-ce414ae50424</onsuccess>

<code>try

for each dr as datarow in blanks.rows

for each c as datacolumn in blanks.columns

if isdbnull(dr(c.columnname)) then

dr(c.columnname) = ""

end if

next

next

no_blanks = blanks

catch e as exception

end try</code>

</stage>

<stage stageid="c491f60e-4aa7-4abb-a203-5a78c0b64469" name="End" type="End">

<subsheetid>3a772458-463d-46cf-8451-6cf5b4aeae30</subsheetid>

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<narrative>

</narrative>

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<outputs>

```
<output type="collection" name="Output Collection" narrative="The given input collection with all the null rows" />
</outputs>

</stage>

<stage stageid="c8499a69-da78-40b1-9e30-3b2b66b78a63" name="Start" type="Start">

<subsheetid>3a772458-463d-46cf-8451-6cf5b4aeae30</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None." />

</preconditions>

<postconditions>

<condition narrative="The rows with blank keys will have been deleted." />

<condition narrative="" />

</postconditions>

<narrative>

</narrative>

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<inputs>

<input type="collection" name="Input Collection" narrative="The collection from which you want null rows to be deleted." />

<input type="text" name="Key Field" narrative="The key field to check, if blank the row will be deleted. The key field must be unique." />

</inputs>

<onsuccess>85077240-20a2-46ad-81ba-a1eca720ae81</onsuccess>

</stage>

<stage stageid="e14452d8-589d-478a-ab1b-309897b8560b" name="End" type="End">
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<narrative>

</narrative>

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<outputs>

<output type="collection" name="Output Collection" narrative="The given input collection with all the null ro

</outputs>

</stage>

<stage stageid="13091eb3-458e-46d2-a20e-59eb5eb5d748" name="Input Collection" type="Collection">

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="6ab2855e-0511-49ff-ac26-c731dbf8c432" name="Output Collection" type="Collection">

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<narrative>

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<private/>

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<stage stageid="cab44f8f-583a-4529-911c-392030a2dee3" name="Message" type="Data">

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e1203642-ce03-48bd-ba00-aad2a0dcde1e" name="Success" type="Data">

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<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="1478eda2-b43b-4609-aef4-ff3ad3c2a708" name="Key Field" type="Data">

<subsheetid>3a772458-463d-46cf-8451-6cf5b4aeae30</subsheetid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="85077240-20a2-46ad-81ba-a1eca720ae81" name="Remove Null rows from collection" type="Script" />

<subsheetid>3a772458-463d-46cf-8451-6cf5b4aeae30</subsheetid>

<loginhibit/>

<narrative>can't loop through the core customer details table collection as some of the rows are NULL.</narrative>

<displayx>15</displayx>

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<inputs>

<input type="collection" name="CCD Table In" expr="[Input Collection]"/>

<input type="text" name="Key Field" expr="[Key Field]"/>

</inputs>

<outputs>

<output type="collection" name="CCD Table Out" stage="Output Collection"/>

<output type="text" name="Error Message" stage="Message"/>

<output type="flag" name="Success" stage="Success"/>

</outputs>

<onsuccess>2e050fc0-fed0-49b4-bafc-a33a0aee5ad9</onsuccess>

<code>Try

CCD_Table_In.AcceptChanges()

For Each row As DataRow in CCD_Table_In.Rows

If String.IsNullOrEmpty(row(Key_Field).ToString().Trim()) Then

row.Delete()

End If

Next


```
CCD_Table_In.AcceptChanges()
```

```
CCD_Table_Out = CCD_Table_In
```

```
Success = True
```

```
Catch ex as Exception
```

```
Error_Message = ex.ToString()
```

```
Success = False
```

```
End Try
```

```
</code>
```

```
</stage>
```

```
<stage stageid="9e92c3e9-666f-47a3-b5a4-712191368127" name="Remove dots from headers" type="Su
```

```
<subsheetid>eb03a051-75a8-4093-a383-6c6fecfbb736</subsheetid>
```

```
<narrative>Collections with dots in the field names cannot be properly indexed so this functinon renames th
```

```
<displayx>-165</displayx>
```

```
<displayy>-195</displayy>
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</stage>
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<stage stageid="9e9143b5-5aa7-475d-a944-466bfb2c71d" name="Rename Column1" type="Code">
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```
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```

```
<loginhibit/>
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```
<narrative>
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```
</narrative>
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<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Input Collection" expr="[Input Collection]"/>

</inputs>

<outputs>

<output type="collection" name="Output Collection" stage="Output Collection"/>

</outputs>

<onsuccess>ce865562-7be4-4739-95c5-3b5e05d7901f</onsuccess>

<code>For Each Column As DataColumn In Input_Collection.Columns

Column.ColumnName=Microsoft.VisualBasic.Replace(Column.ColumnName,".",",")

Next

Output_Collection = Input_Collection</code>

</stage>

<stage stageid="ce865562-7be4-4739-95c5-3b5e05d7901f" name="End" type="End">

<subsheetsid>eb03a051-75a8-4093-a383-6c6fecfbb736</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>


```
<outputs>

<output type="collection" name="Output Collection" narrative="The collection with the renamed column" sta

</outputs>

</stage>

<stage stageid="c2200054-2838-45a0-a8b2-c1da235391b0" name="Input Collection" type="Collection">

<subsheetsid>eb03a051-75a8-4093-a383-6c6fecfbb736</subsheetsid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="c865c672-39f2-4b5d-b96c-f44c5f3b9a89" name="Start" type="Start">

<subsheetsid>eb03a051-75a8-4093-a383-6c6fecfbb736</subsheetsid>

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<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection will have fields with no dots."/>

</postconditions>

<narrative>
```

```
</narrative>

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<displaywidth>60</displaywidth>

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<inputs>

<input type="collection" name="Input Collection" narrative="The collection with the column to rename" stag

</inputs>

<onsuccess>9e9143b5-5aa7-475d-a944-466bfbcb2c71d</onsuccess>

</stage>

<stage stageid="02864eb4-432c-4b37-9199-c28dd7fe654b" name="Note1" type="Note">

<subsheetsid>eb03a051-75a8-4093-a383-6c6fecfb736</subsheetsid>

<loginhibit/>

<narrative>Inputs</narrative>

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<displayheight>30</displayheight>

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</stage>

<stage stageid="99cb4759-fd39-4084-a262-e2ac589fdc28" name="Output Collection" type="Collection">

<subsheetsid>eb03a051-75a8-4093-a383-6c6fecfb736</subsheetsid>

<narrative>

</narrative>

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$$\frac{1}{x^2}$$

30

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collection

private

alwaysinit

stage stageid="c1388967-ebc6-462c-bad7-66359084fab0" name="Note1" type="Note"

subsheetid>eb03a051-75a8-4093-a383-6c6fecfbb736</subsheetid>

loginhibit

narrative>Outputs</narrative>

$$\frac{1}{x^2}$$

105

$$\frac{1}{x^2}$$

30

font family="Tahoma" size="10" style="Regular" color="000000"/>

stage stageid="4e265aee-0021-418d-8655-61d995e170a0" name="Append Field (Text)" type="SubSheet"

subsheetid>a474299b-5c1c-4873-a3af-4dd0d3bd03ff</subsheetid>

narrative>Appends a field to a collection and allows you to provide a default value as text for the field.</narrative>

$$\frac{1}{x^2}$$

105

$$\frac{1}{x^2}$$

90

font family="Tahoma" size="10" style="Regular" color="000000"/>

stage stageid="c8bd0a3b-3343-43fd-bef7-1414593f62b6" name="Field Name" type="Data">

<subsheetid>a474299b-5c1c-4873-a3af-4dd0d3bd03ff</subsheetid>

<narrative>

</narrative>

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</stage>

<stage stageid="ddaf3d76-462d-41ac-8cdd-92050ea01b79" name="Append Text" type="Code">

<subsheetid>a474299b-5c1c-4873-a3af-4dd0d3bd03ff</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Collection" expr="[Collection In]"/>

<input type="text" name="Column" expr="[Field Name]"/>

<input type="text" name="Value" expr="[Value]"/>

</inputs>

<outputs>

<output type="collection" name="New Collection" stage="Collection Out"/>

</outputs>

<onsuccess>072e40e3-3858-4528-aa1b-7b4cfb7861f9</onsuccess>

<code>

If Not Collection.Columns.Contains(Column) Then

Collection.Columns.Add(Column, Type.GetType("System.String"))

End If

For Each dr As System.Data.DataRow In Collection.Rows

dr(Column) = Value

Next

New_Collection = Collection

</code>

</stage>

<stage stageid="7c2f4495-6f2c-4dc5-845c-58f3036c5ec9" name="Collection Out" type="Collection">

<subsheetsid>a474299b-5c1c-4873-a3af-4dd0d3bd03ff</subsheetsid>

<narrative>

</narrative>

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<alwaysinit/>

</stage>

<stage stageid="8493982d-24c5-4d6b-96c0-060ed614f8c3" name="Collection In" type="Collection">

<subsheetid>a474299b-5c1c-4873-a3af-4dd0d3bd03ff</subsheetid>

<narrative>

</narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="6542d3cd-7831-4ebb-93dc-09b64ff85bbf" name="Value" type="Data">

<subsheetid>a474299b-5c1c-4873-a3af-4dd0d3bd03ff</subsheetid>

<narrative>

</narrative>

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<initialvalue/>
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<alwaysinit/>

</stage>

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<subsheetid>a474299b-5c1c-4873-a3af-4dd0d3bd03ff</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection will have a new field appended to it."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<inputs>

<input type="collection" name="Collection" narrative="The collection to append a field to." stage="Collection">

<input type="text" name="Field Name" narrative="The name of the new field." stage="Field Name"/>

<input type="text" name="Value" narrative="The value to be put in the new field." stage="Value"/>

</inputs>

<onsuccess>ddaf3d76-462d-41ac-8cdd-92050ea01b79</onsuccess>

</stage>

<stage stageid="072e40e3-3858-4528-aa1b-7b4cfb7861f9" name="End" type="End">
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<subsheetid>a474299b-5c1c-4873-a3af-4dd0d3bd03ff</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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<outputs>

<output type="collection" name="Appended Collection" narrative="The collection with field appended." stag

</outputs>

</stage>

<stage stageid="4c0d7072-e36c-465b-89f0-fbe7e21e95fb" name="Append Field (Number)" type="SubShe

<subsheetid>65451129-b7a2-4c2f-a12d-9086bd314f53</subsheetid>

<narrative>Appends a field to a collection and allows you to provide a default number value for the field.</n

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="433e0a45-d9b6-48e5-b62f-67815cc1461a" name="Start" type="Start">

<subsheetid>65451129-b7a2-4c2f-a12d-9086bd314f53</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

```
</preconditions>

<postconditions>

<condition narrative="The collection will have the new field appended to it."/>

</postconditions>

<narrative>

</narrative>

<displayx>30</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<inputs>

<input type="collection" name="Collection" narrative="The collection to append a field to." stage="Collection"/>

<input type="text" name="Field Name" narrative="The name of the new field." stage="Field Name"/>

<input type="number" name="Value" narrative="The value to be put in the new field." stage="Value"/>

</inputs>

<onsuccess>560df05e-a20c-4c85-addb-acc35d19f0e</onsuccess>

</stage>

<stage stageid="5dc78a95-36a2-4324-a366-ccd5f941ea7b" name="End" type="End">

<subsheetid>65451129-b7a2-4c2f-a12d-9086bd314f53</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<outputs>

<output type="collection" name="Appended Collection" narrative="The collection with field appended." stag

</outputs>

</stage>

<stage stageid="560df05e-a20c-4c85-addb-accc35d19f0e" name="Append Number" type="Code">

<subsHEETid>65451129-b7a2-4c2f-a12d-9086bd314f53</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>30</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Collection" expr="[Collection In]"/>

<input type="text" name="Column" expr="[Field Name]"/>

<input type="number" name="Value" expr="[Value]"/>

</inputs>

<outputs>

<output type="collection" name="New Collection" stage="Collection Out"/>

</outputs>

<onsuccess>5dc78a95-36a2-4324-a366-ccd5f941ea7b</onsuccess>

<code>

If Not Collection.Columns.Contains(Column) Then

Collection.Columns.Add(Column, Type.GetType("System.Decimal"))

End If

For Each dr As System.Data.DataRow In Collection.Rows

dr(Column) = Value

Next

New_Collection = Collection

</code>

</stage>

<stage stageid="a8f65fc6-9524-4ba5-ab7c-4bf16b825bb8" name="Collection Out" type="Collection">

<subsheetsid>65451129-b7a2-4c2f-a12d-9086bd314f53</subsheetsid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="1265e994-416c-4b2d-ab0c-c81e1288f072" name="Field Name" type="Data">

<subsheetsid>65451129-b7a2-4c2f-a12d-9086bd314f53</subsheetsid>

<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="4ac81567-c224-4270-a0ef-e57562e06fb5" name="Collection In" type="Collection">

<subsheetsid>65451129-b7a2-4c2f-a12d-9086bd314f53</subsheetsid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="f9a670a2-2e34-4e79-a184-369ddc70c75e" name="Value" type="Data">

<subsheetsid>65451129-b7a2-4c2f-a12d-9086bd314f53</subsheetsid>

<narrative>

</narrative>

<displayx>-180</displayx>
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```
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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="5979fe4e-6f4d-4683-8d7f-bb932ec88a2e" name="Rename Field" type="SubSheetInfo">

<subsheetsid>ccc0c027-8c9f-41f6-9ba6-af44eac6a9a9</subsheetsid>

<narrative>Renames a field within a collection.</narrative>

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<displayy>-105</displayy>

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<displayheight>90</displayheight>

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</stage>

<stage stageid="5030c234-e021-4ff1-b9ea-751e186a63a8" name="Start" type="Start">

<subsheetsid>ccc0c027-8c9f-41f6-9ba6-af44eac6a9a9</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collections field will be renamed."/>

</postconditions>
```

```
<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Collection In" narrative="The collection to rename a field in." stage="Collection In"/>

<input type="text" name="Field Name" narrative="The name of the existing field to rename." stage="Field Name"/>

<input type="text" name="New Name" narrative="The new name for the field." stage="New Name"/>

</inputs>

<onsuccess>278ed0f4-d7d0-4ca7-908e-55569a965852</onsuccess>

</stage>

<stage stageid="404be5b2-7ad7-429a-9e8b-b6a561112f47" name="End" type="End">

<subsheets>ccc0c027-8c9f-41f6-9ba6-af44eac6a9a9</subsheets>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="collection" name="Collection Out" narrative="The collection with field renamed." stage="Collection Out"/>

</outputs>
```



```
</stage>

<stage stageid="67c49160-5821-48b0-82fd-371ecbaea386" name="Collection In" type="Collection">

<subsheetsid>ccc0c027-8c9f-41f6-9ba6-af44eac6a9a9</subsheetsid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="f0ef8f48-7f60-47fc-89b2-3aa04ef39792" name="Field Name" type="Data">

<subsheetsid>ccc0c027-8c9f-41f6-9ba6-af44eac6a9a9</subsheetsid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>
```

</stage>

<stage stageid="8c1db25c-d091-4900-8b9e-529d60df0f8f" name="Collection Out" type="Collection">

<subsheetsid>ccc0c027-8c9f-41f6-9ba6-af44eac6a9a9</subsheetsid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="278ed0f4-d7d0-4ca7-908e-55569a965852" name="Rename" type="Code">

<subsheetsid>ccc0c027-8c9f-41f6-9ba6-af44eac6a9a9</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Collection In" expr="[Collection In]"/>

<input type="text" name="Field_Name" expr="[Field Name]"/>

<input type="text" name="New Name" expr="[New Name]"/>

</inputs>

<outputs>

<output type="collection" name="Collection Out" stage="Collection Out"/>

</outputs>

<onsuccess>404be5b2-7ad7-429a-9e8b-b6a561112f47</onsuccess>

<code>

Collection_Out = Collection_In.Copy

For Each c As DataColumn in Collection_Out.Columns

If c.ColumnName = Field_Name Then

c.ColumnName = New_Name

Exit For

End If

Next

</code>

</stage>

<stage stageid="b2e64d6d-9ac8-43b9-aeed-e58e65d8067c" name="New Name" type="Data">

<subsheetsid>ccc0c027-8c9f-41f6-9ba6-af44eac6a9a9</subsheetsid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<alwaysinit/>

</stage>

<stage stageid="c935b0c8-a0cb-4251-9e63-af4ed27f9a91" name="Delete Field" type="SubSheetInfo">

<subsheetsid>1d7b6202-d743-4485-9101-839f4651c406</subsheetsid>

<narrative>Deletes a field from a collection.</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="a7662efd-3d51-4d9a-adbc-1a2e626613e5" name="Start" type="Start">

<subsheetsid>1d7b6202-d743-4485-9101-839f4651c406</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collections field will have been removed."/>

</postconditions>

<narrative>

</narrative>

<displayx>30</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<inputs>

<input type="collection" name="Collection In" narrative="The collection to delete the field from." stage="Co

<input type="text" name="Field Name" narrative="The field to delete." stage="Field Name"/>

</inputs>

<onsuccess>b52dad46-ca6d-4860-82c7-f1d9320f66bc</onsuccess>

</stage>

<stage stageid="4e6ae3ea-d232-4ff3-b93b-ab90f6e93c1b" name="End" type="End">

<subsheetid>1d7b6202-d743-4485-9101-839f4651c406</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>30</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="collection" name="Collection Out" narrative="The collection with the field removed." stage="

</outputs>

</stage>

<stage stageid="4eb487df-f7e9-4146-a35f-e5e7c6461d01" name="Collection In" type="Collection">

<subsheetid>1d7b6202-d743-4485-9101-839f4651c406</subsheetid>

<narrative>

</narrative>

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<displayy>-15</displayy>
```

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<displayheight>60</displayheight>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="719f7d25-ec64-43bd-9466-c822213aa069" name="Field Name" type="Data">

<subsheetsid>1d7b6202-d743-4485-9101-839f4651c406</subsheetsid>

<narrative>

</narrative>

<displayx>-180</displayx>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="0b32e1ce-deb0-4107-ac7c-c4af81ceedaf" name="Collection Out" type="Collection">

<subsheetsid>1d7b6202-d743-4485-9101-839f4651c406</subsheetsid>

<narrative>

</narrative>

<displayx>-180</displayx>

<displayy>105</displayy>
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<displayheight>60</displayheight>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="b52dad46-ca6d-4860-82c7-f1d9320f66bc" name="Delete Column1" type="Code">

<subsheetsid>1d7b6202-d743-4485-9101-839f4651c406</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>30</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Collection In" expr="[Collection In]"/>

<input type="text" name="Field_Name" expr="[Field Name]"/>

</inputs>

<outputs>

<output type="collection" name="Collection Out" stage="Collection Out"/>

</outputs>

<onsuccess>4e6ae3ea-d232-4ff3-b93b-ab90f6e93c1b</onsuccess>

<code>

Collection_Out = Collection_In.Copy

For Each c As DataColumn in Collection_Out.Columns

If c.ColumnName = Field_Name Then

Collection_Out.Columns.Remove(c)

Exit For

End If

Next

</code>

</stage>

<stage stageid="63e447be-76ae-4566-a7e9-ead3373b7fe6" name="Merge Collection" type="SubSheetInfo">

<subsheetsid>cd8fefb9-4622-4ea7-8287-e64b86d7e513</subsheetsid>

<narrative>Merges two collections with different structures (and where the field names across both collections are identical)</narrative>

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<displayy>-105</displayy>

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<displayheight>90</displayheight>

</stage>

<stage stageid="d427bb44-b573-475a-aa7d-176f2803e033" name="Start" type="Start">

<subsheetsid>cd8fefb9-4622-4ea7-8287-e64b86d7e513</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="The merge will fail if both collections contain any field names which are identical."/>

</preconditions>

<postconditions>

<condition narrative="The collections will have been merged."/>

</postconditions>


```
<narrative>

</narrative>

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<displayy>-105</displayy>

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<inputs>

<input type="collection" name="Collection 1" narrative="The first collection to be merged." stage="Collection 1" />

<input type="collection" name="Collection 2" narrative="The second collection to be merged." stage="Collection 2" />

</inputs>

<onsuccess>6459a0e3-6f86-4efa-8b87-a9eb0b9a8460</onsuccess>

</stage>

<stage stageid="570e4b26-4aa8-48ac-b435-1ca8fe10f2cd" name="End" type="End">

<subsheetid>cd8fefb9-4622-4ea7-8287-e64b86d7e513</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<outputs>

<output type="collection" name="Collection 3" narrative="The resulting merged collection." stage="Collection 3" />

</outputs>

</stage>
```

```
<stage stageid="6459a0e3-6f86-4efa-8b87-a9eb0b9a8460" name="Merge" type="Code">
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<inputs>
<input type="collection" name="c1" expr="[Collection 1]"/>
<input type="collection" name="c2" expr="[Collection 2]"/>
</inputs>
<outputs>
<output type="collection" name="c3" stage="Collection 3"/>
</outputs>
<onsuccess>570e4b26-4aa8-48ac-b435-1ca8fe10f2cd</onsuccess>
<code>
```

```
For Each c As DataColumn in c2.Columns
```

```
c1.Columns.Add(CloneColumn(c))
```

```
Next
```

```
For r As Integer = 0 To c1.Rows.Count - 1
```

```
If r < c2.Rows.Count Then
```

```
For Each c As DataColumn in c2.Columns
```

```
c1.Rows(r)(c.ColumnName) = c2.Rows(r)(c.ColumnName)
```

Next

Else

Exit For

End If

Next

c3 = c1</code>

</stage>

<stage stageid="c325b6be-e358-4eab-8e9b-0b74a98490f3" name="Collection 1" type="Collection">

<subsheetid>cd8fefb9-4622-4ea7-8287-e64b86d7e513</subsheetid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="61e7bd9a-18d4-475d-b131-95dc839d1518" name="Collection 2" type="Collection">

<subsheetid>cd8fefb9-4622-4ea7-8287-e64b86d7e513</subsheetid>

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</narrative>

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<stage stageid="3ff4ed5f-abbc-4668-9ebb-816c8f0884db" name="Collection 3" type="Collection">

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<alwaysinit/>

</stage>

<stage stageid="741d8892-31ef-497b-a1ab-dca99ebd1f06" name="Split Collection" type="SubSheetInfo">

<subsheetsid>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheetsid>

<narrative>Splits a collection into two collections containing the fields as defined by templates.</narrative>

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<displayy>-105</displayy>

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<displayheight>90</displayheight>
```


</stage>

<stage stageid="61860248-5b8d-41de-8e28-092ca8b989e5" name="Split" type="Code">

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<inputs>

<input type="collection" name="c1" expr="[Collection 1]"/>

<input type="collection" name="c2t" expr="[Collection 2 Template]"/>

<input type="collection" name="c3t" expr="[Collection 3 Template]"/>

</inputs>

<outputs>

<output type="collection" name="c2" stage="Collection 2"/>

<output type="collection" name="c3" stage="Collection 3"/>

</outputs>

<onsuccess>e08e6b18-850a-427c-9eba-5065c9c619dd</onsuccess>

<code>

c2 = c2t.Clone()

c3 = c3t.Clone()

Dim r2, r3 As DataRow

Dim bAdd2, bAdd3 As Boolean

For Each r1 As DataRow In c1.Rows

r2 = c2.NewRow()

r3 = c3.NewRow()

bAdd2 = False

bAdd3 = False

For Each c As DataColumn In c1.Columns

If c2.Columns.Contains(c.ColumnName) Then

r2(c.ColumnName) = r1(c.ColumnName)

bAdd2 = True

End If

If c3.Columns.Contains(c.ColumnName) Then

r3(c.ColumnName) = r1(c.ColumnName)

bAdd3 = True

End If

Next

If bAdd2 Then

c2.Rows.Add(r2)

End If

If bAdd3 Then

c3.Rows.Add(r3)

End If

Next</code>

</stage>

<stage stageid="d00a67c4-977f-49ab-ac41-225ebdb3ad8d" name="Collection 3 Template" type="Collection 3 Template">

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<narrative>

</narrative>

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<alwaysinit/>

</stage>

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<subsHEETid>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsHEETid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

<condition narrative=""/>

</preconditions>

<postconditions>

<condition narrative="Collections will be split."/>

```
<condition narrative=""/>

</postconditions>

<narrative>

</narrative>

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<inputs>

<input type="collection" name="Collection 1" stage="Collection 1"/>

<input type="collection" name="Collection 2 Template" stage="Collection 2 Template"/>

<input type="collection" name="Collection 3 Template" stage="Collection 3 Template"/>

</inputs>

<onsuccess>2c7d51f8-a340-4629-9d93-0526f6ed07cc</onsuccess>

</stage>

<stage stageid="e08e6b18-850a-427c-9eba-5065c9c619dd" name="End" type="End">

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<outputs>
```



```
<output type="collection" name="Collection 2" stage="Collection 2"/>
<output type="collection" name="Collection 3" stage="Collection 3"/>
</outputs>
</stage>
<stage stageid="67449419-0f6c-463b-bf1a-2d94b16c5be3" name="Collection 2" type="Collection">
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<alwaysinit/>
</stage>
<stage stageid="78bbd50d-b3cd-4066-80e3-d4cb236662b8" name="Collection 3" type="Collection">
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```

```
<private/>

<alwaysinit/>

</stage>

<stage stageid="2c7d51f8-a340-4629-9d93-0526f6ed07cc" name="Count Template 2 Rows" type="Action">

<subsheets>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheets>

<loginhibit/>

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<inputs>

<input type="text" name="Collection Name" narrative="The name of the collection whose rows are to be counted" />

</inputs>

<outputs>

<output type="number" name="Count" narrative="The number of rows counted in the collection" stage="Row Count" />

</outputs>

<onsuccess>2dbb3bb5-1526-4f1c-818d-aa4eb0acc677</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Count Rows"/>

</stage>

<stage stageid="5a6c9426-a48f-4861-b7fe-b020ea824cc5" name="Row Count" type="Data">

<subsheets>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheets>

<narrative>

</narrative>

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<initialvalue>0</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2dbb3bb5-1526-4f1c-818d-aa4eb0acc677" name="Rows?" type="Decision">

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<decision expression="[Row Count]&gt;0"/>

<ontrue>17c0ae90-3784-40c5-816f-a0dfb4c97eab</ontrue>

<onfalse>6a04f2d4-b2f3-4afd-b837-ddaf0d40a9d5</onfalse>

</stage>

<stage stageid="17c0ae90-3784-40c5-816f-a0dfb4c97eab" name="Count Template 3 Rows" type="Action">

<subsheetsid>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheetsid>

<loginhibit/>

<narrative>
```

```
</narrative>

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<inputs>

<input type="text" name="Collection Name" narrative="The name of the collection whose rows are to be co

</inputs>

<outputs>

<output type="number" name="Count" narrative="The number of rows counted in the collection" stage="Ro

</outputs>

<onsuccess>525e699d-df7d-4c61-b5fd-0ae540b94a94</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Count Rows"/>

</stage>

<stage stageid="525e699d-df7d-4c61-b5fd-0ae540b94a94" name="Rows?" type="Decision">

<subsheetsid>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<decision expression="[Row Count]&gt;0"/>

<ontrue>01cbd6ed-952e-4ae8-8420-496581701364</ontrue>
```

<onfalse>c7cd5499-3bd2-49c8-a5e0-2c190b350abe</onfalse>

</stage>

<stage stageid="74cfea1c-af9f-4c0b-86aa-ac76097c3940" name="Collection 1" type="Collection">

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<narrative>

</narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="2af4b9c5-d3f3-4ecc-9a3a-4b52f1cee481" name="Collection 2 Template" type="Collection">

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<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

```
</stage>

<stage stageid="c7cd5499-3bd2-49c8-a5e0-2c190b350abe" name="System Exception" type="Exception">

<subsheetid>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheetid>

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</narrative>

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<exception type="System Exception" detail="&quot;Template collection cannot be empty&quot;"/>

</stage>

<stage stageid="6a04f2d4-b2f3-4afd-b837-ddaf0d40a9d5" name="anchor1" type="Anchor">

<subsheetid>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<onsuccess>c7cd5499-3bd2-49c8-a5e0-2c190b350abe</onsuccess>

</stage>

<stage stageid="01cbd6ed-952e-4ae8-8420-496581701364" name="Count Data Rows" type="Action">

<subsheetid>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheetid>

<loginhibit/>
```

```
<narrative>

</narrative>

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<inputs>

<input type="text" name="Collection Name" narrative="The name of the collection whose rows are to be co

</inputs>

<outputs>

<output type="number" name="Count" narrative="The number of rows counted in the collection" stage="Ro

</outputs>

<onsuccess>69ae2e43-547a-4cef-abc9-a57284282b82</onsuccess>

<resource object="Blueprism.AutomateProcessCore.clsCollectionActions" action="Count Rows"/>

</stage>

<stage stageid="69ae2e43-547a-4cef-abc9-a57284282b82" name="Rows?" type="Decision">

<subsheetsid>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheetsid>

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<narrative>

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<decision expression="[Row Count]&gt;0"/>
```

```
<ontrue>61860248-5b8d-41de-8e28-092ca8b989e5</ontrue>

<onfalse>4cffbd60-ffb8-4da0-aa50-3639bc6ff8ef</onfalse>

</stage>

<stage stageid="4cffbd60-ffb8-4da0-aa50-3639bc6ff8ef" name="Assign Outputs" type="Code">

<subsheetsid>76943739-36b9-46bc-8f95-e1b6342bc8a6</subsheetsid>

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</narrative>

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<inputs>

<input type="collection" name="c2t" expr="[Collection 2 Template]"/>

<input type="collection" name="c3t" expr="[Collection 3 Template]"/>

</inputs>

<outputs>

<output type="collection" name="c2" stage="Collection 2"/>

<output type="collection" name="c3" stage="Collection 3"/>

</outputs>

<onsuccess>e08e6b18-850a-427c-9eba-5065c9c619dd</onsuccess>

<code>

c3 = c3t

c2 = c2t

</code>
```


</stage>

<stage stageid="8140b508-3840-4291-8122-7d9633f50e96" name="Collection In" type="Collection">

<subsHEETid>d8e5be7a-93aa-4322-99bf-00edea37bbc2</subsHEETid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="cc074354-584f-4eba-ab53-2f96462259a0" name="Filter Collection" type="SubSheetInfo">

<subsHEETid>a9f3108d-ca87-4551-b567-9c64ef05cf0c</subsHEETid>

<narrative>Filters a collection using the given query.</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

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</stage>

<stage stageid="4ee491db-1747-4f76-a969-78ebc05942c3" name="Start" type="Start">

<subsHEETid>a9f3108d-ca87-4551-b567-9c64ef05cf0c</subsHEETid>

<loginhibit/>

<preconditions>

```
<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection will be filtered."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

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<inputs>

<input type="collection" name="Collection In" narrative="The collection to filter." stage="Collection In"/>

<input type="text" name="Filter" narrative="The filter query." stage="Filter"/>

</inputs>

<onsuccess>0c063487-d7ee-42db-8059-92687b655e7d</onsuccess>

</stage>

<stage stageid="bda88544-a5a8-4bf6-9c9b-c645f76b7fed" name="End" type="End">

<subsheetid>a9f3108d-ca87-4551-b567-9c64ef05cf0c</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>90</displayy>

<displaywidth>60</displaywidth>

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```


<outputs>

<output type="collection" name="Collection Out" narrative="The filtered collection." stage="Collection Out"/>

</outputs>

</stage>

<stage stageid="0c063487-d7ee-42db-8059-92687b655e7d" name="Filter Collection1" type="Code">

<subsHEETid>a9f3108d-ca87-4551-b567-9c64ef05cf0c</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Collection In" expr="[Collection In]"/>

<input type="text" name="Select Condition" expr="[Filter]"/>

</inputs>

<outputs>

<output type="collection" name="Collection Out" stage="Collection Out"/>

</outputs>

<onsuccess>bda88544-a5a8-4bf6-9c9b-c645f76b7fed</onsuccess>

<code>Dim NewRow As DataRow

Collection_Out = Collection_In.Clone

```
For Each parentRow As DataRow In Collection_In.Select(Select_Condition)
```

```
    NewRow = Collection_Out.NewRow
```

```
    For Each c As DataColumn In NewRow.Table.Columns
```

```
        NewRow(c.ColumnName) = parentRow(c.ColumnName)
```

```
    Next
```

```
    Collection_Out.Rows.Add(NewRow)
```

```
Next
```

```
    NewRow = Nothing
```

```
    Collection_In = Nothing</code>
```

```
</stage>
```

```
<stage stageid="ab9df972-dcc0-4384-ae57-8f0207f70978" name="Collection Out" type="Collection">
```

```
<subsheetid>a9f3108d-ca87-4551-b567-9c64ef05cf0c</subsheetid>
```

```
<narrative>
```

```
</narrative>
```

```
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```
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```
<datatype>collection</datatype>
```

```
<private/>
```

```
<alwaysinit/>
```

```
</stage>
```

```
<stage stageid="ee8d1e79-1554-41d5-9dec-d9cb9153d483" name="Collection In" type="Collection">
```

```
<subsheetid>a9f3108d-ca87-4551-b567-9c64ef05cf0c</subsheetid>
```

```
<narrative>
```

```
</narrative>

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<alwaysinit/>

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<subsheetsid>a9f3108d-ca87-4551-b567-9c64ef05cf0c</subsheetsid>

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</stage>

<stage stageid="6f60641e-4454-45d1-b678-62b0a6c6b784" name="Start" type="Start">

<subsheetsid>cdf2a7f1-a351-441a-8d36-bc92af66650a</subsheetsid>

<loginhibit/>
```

```
<narrative>

</narrative>

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<inputs>

<input type="number" name="Start Row" narrative="The row index to start copying from. The index is from 0 to 1000000." stage="Start Row" />

<input type="number" name="Number of Rows to Copy" narrative="The number of rows to copy." stage="Number of Rows to Copy" />

<input type="collection" name="Source Collection" narrative="The collection to copy." stage="Source Collection" />

</inputs>

<onsuccess>25337bba-f357-42a8-bc61-876a9582d5d0</onsuccess>

</stage>

<stage stageid="002b5c58-ec2b-4e02-91e5-68fbef2b84" name="End" type="End">

<subsheetid>cdf2a7f1-a351-441a-8d36-bc92af66650a</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<outputs>

<output type="collection" name="Output Collection" narrative="The copied collection." stage="Output Collection" />

</outputs>
```

</stage>

<stage stageid="1cd8f0a3-e382-4ad5-8948-7f0dc5cd17cd" name="Start Row" type="Data">

<subsheetsid>cdf2a7f1-a351-441a-8d36-bc92af66650a</subsheetsid>

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<alwaysinit/>

</stage>

<stage stageid="abc78fcd-9654-47c6-9aa9-5cd8f505bd60" name="Number of Rows to Copy" type="Data">

<subsheetsid>cdf2a7f1-a351-441a-8d36-bc92af66650a</subsheetsid>

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```
<alwaysinit/>

</stage>

<stage stageid="c3aa2821-e68a-4985-9fd7-e0330638a935" name="Source Collection" type="Collection">

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</narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="25337bba-f357-42a8-bc61-876a9582d5d0" name="Copy Rows1" type="Code">

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Source Collection" expr="[Source Collection]"/>
```



```
<input type="number" name="Start Row" expr="[Start Row]"/>
```

```
<input type="number" name="Number of Rows to Copy" expr="[Number of Rows to Copy]"/>
```

```
</inputs>
```

```
<outputs>
```

```
<output type="collection" name="Output Collection" stage="Output Collection"/>
```

```
<output type="flag" name="Success" stage="Success"/>
```

```
<output type="text" name="Error Message" stage="Error Message"/>
```

```
</outputs>
```

```
<onsuccess>ff821741-f1ec-47ff-bd26-00c56a44a6c7</onsuccess>
```

```
<code>Try
```

```
If Start_Row < 0 Then
```

```
Throw New ApplicationException("Start Row must be at least zero.")
```

```
End If
```

```
Dim LastIndex As Integer = Source_Collection.Rows.Count - 1
```

```
If Start_Row > LastIndex Then
```

```
Throw New ApplicationException("Start Row must not point beyond the end of the collection.")
```

```
End If
```

```
If Start_Row + Number_of_Rows_to_Copy - 1 > LastIndex Then
```

```
Throw New ApplicationException("The number of requested rows extends beyond the end of the collection")
```

```
End If
```

```
'Set up the new collection with columns
```

```
Output_Collection = Source_Collection.Clone()
```

```
'copy the requested rows one by one
```

```
For I As integer = Start_Row To Start_Row + Number_of_Rows_to_Copy - 1
```

```
Dim Values(Source_Collection.Columns.Count - 1) As Object
```

```
For J As Integer = 0 To Source_Collection.Columns.Count - 1
```

```
Values(J) = Source_Collection.Rows(I)(J)
```

```
Next
```

```
Output_collection.Rows.Add(Values)
```

```
Next
```

```
Success = True
```

```
Catch Ex As Exception
```

```
Success = False
```

```
Error_Message = Ex.ToString()
```

```
End Try</code>
```

```
</stage>
```

```
<stage stageid="33698fa1-b8d8-467c-bb0d-b8e838d42c69" name="Output Collection" type="Collection">
```

```
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```

```
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```
<private/>
```

```
<alwaysinit/>
```

```
</stage>
```

```
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```

```
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</narrative>

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<stage stageid="6551589d-b7f2-48b7-a867-b398647d0180" name="Error Message" type="Data">

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<alwaysinit/>

</stage>

<stage stageid="ff821741-f1ec-47ff-bd26-00c56a44a6c7" name="Success?" type="Decision">

<subsheetid>cdf2a7f1-a351-441a-8d36-bc92af66650a</subsheetid>

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<decision expression="[Success]"/>

<ontrue>002b5c58-ec2b-4e02-91e5-68fbef2b84</ontrue>

<onfalse>fd5c51f5-e900-44ce-a169-84565580d402</onfalse>

</stage>

<stage stageid="fd5c51f5-e900-44ce-a169-84565580d402" name="System Exception" type="Exception">

<subsheetid>cdf2a7f1-a351-441a-8d36-bc92af66650a</subsheetid>

<narrative>

</narrative>

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<exception type="System Exception" detail="[Error Message]"/>

</stage>

<stage stageid="c6165073-bfc9-495f-98e5-62a224f52226" name="Start" type="Start">

<subsheetid>51f694a8-5305-4a38-9b41-a98998f2f7ca</subsheetid>

<loginhibit/>

```
<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collections will be combined."/>

</postconditions>

<narrative>

</narrative>

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<inputs>

<input type="collection" name="Main Collection" narrative="The collection to append to." stage="Main Coll

<input type="collection" name="Collection to Append" narrative="The collection to append." stage="Collect

</inputs>

<onsuccess>77e19cde-e0fa-40aa-8bea-05c4743275c2</onsuccess>

</stage>

<stage stageid="5d1a3d8d-2e99-49b5-9863-6a866e2e03dd" name="End" type="End">

<subsheetid>51f694a8-5305-4a38-9b41-a98998f2f7ca</subsheetid>

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<narrative>

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<outputs>

<output type="collection" name="Combined Collection" narrative="The combined collection." stage="Comb

</outputs>

</stage>

<stage stageid="e3a95b76-e1ba-4bf1-92c1-653ae937120a" name="Main Collection" type="Collection">

<subsheetsid>51f694a8-5305-4a38-9b41-a98998f2f7ca</subsheetsid>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="320afdf6-675f-44a8-b563-5cf2cf3212d3" name="Collection to Append" type="Collection">

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="77e19cde-e0fa-40aa-8bea-05c4743275c2" name="Combine Collections" type="Code">

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<narrative>

</narrative>

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<inputs>

<input type="collection" name="Main Collection" expr="[Main Collection]"/>

<input type="collection" name="Collection to Append" expr="[Collection to Append]"/>

</inputs>

<outputs>

<output type="collection" name="Combined Collection" stage="Combined Collection"/>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Error Message" stage="Error Message"/>

</outputs>

<onsuccess>35415fae-0f6d-4f78-b7b9-b39a6e3095ff</onsuccess>

<code>Success = False

If Main_Collection.Columns.Count > 0 AndAlso Main_Collection.Columns.Count <> Collection_to_A

Error_Message = "Field definitions do not match - the number of columns in each is different."

Exit Sub

End If

For Each Col1 As DataColumn In Main_Collection.Columns

If Not Collection_to_Append.Columns.Contains(Col1.ColumnName) Then

Error_Message = "The Main Collection does not contain " & Col1.ColumnName & ""

Exit Sub

End If

If Collection_to_Append.Columns(Col1.ColumnName).DataType.Name <> Col1.DataType.Name Then

Error_Message = "The data type of " & Col1.ColumnName & " do not match."

Exit Sub

End If

Next

If Main_Collection.Columns.Count = 0 Then

Combined_Collection = Collection_to_Append

Else

'We can now assume that fields match and start copying rows

For Each R As DataRow in Collection_to_Append.Rows

Main_Collection.ImportRow(R)

Next

Combined_Collection = Main_Collection

End If

Success = True</code>

</stage>

<stage stageid="d0521477-9847-4a70-834b-9c1d315bd817" name="Combined Collection" type="Collection">

<subsheetsid>51f694a8-5305-4a38-9b41-a98998f2f7ca</subsheetsid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="35415fae-0f6d-4f78-b7b9-b39a6e3095ff" name="Success?" type="Decision">

<subsheetsid>51f694a8-5305-4a38-9b41-a98998f2f7ca</subsheetsid>

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<narrative>

</narrative>

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```
<decision expression="[Success]"/>

<ontrue>5d1a3d8d-2e99-49b5-9863-6a866e2e03dd</ontrue>

<onfalse>e4269f55-7633-4d19-9ebf-299956a4a5ec</onfalse>

</stage>

<stage stageid="e4269f55-7633-4d19-9ebf-299956a4a5ec" name="System Exception" type="Exception">

<subsheetid>51f694a8-5305-4a38-9b41-a98998f2f7ca</subsheetid>

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<exception type="System Exception" detail="[Error Message]"/>

</stage>

<stage stageid="7923c865-f484-411d-815a-24fe9832f941" name="Success" type="Data">

<subsheetid>51f694a8-5305-4a38-9b41-a98998f2f7ca</subsheetid>

<narrative>

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<datatype>flag</datatype>

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<private/>
```

<alwaysinit/>

</stage>

<stage stageid="710fce6c-64f2-4e2d-8c89-9c2c41b9e9cb" name="Error Message" type="Data">

<subsheetid>51f694a8-5305-4a38-9b41-a98998f2f7ca</subsheetid>

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</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="bdd84939-c1c2-4ec3-9ec2-f19a6b55f056" name="Remove Empty Rows" type="SubSheet">

<subsheetid>fa6ed646-8ae1-479e-9845-b1dc9ac3b560</subsheetid>

<narrative>Removes empty rows from a collection.</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

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</stage>

<stage stageid="46ac86fc-42a2-49f4-a2be-86a452176e2b" name="Start" type="Start">

<subsheetid>fa6ed646-8ae1-479e-9845-b1dc9ac3b560</subsheetid>

```
<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection will have empty rows removed."/>

</postconditions>

<narrative>

</narrative>

<displayx>-15</displayx>

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<inputs>

<input type="collection" name="Collection In" narrative="The collection to remove empty rows from" stage=

</inputs>

<onsuccess>6c450e6a-55ae-4382-a419-e4c6d59fc580</onsuccess>

</stage>

<stage stageid="0e663c5b-fb8a-4f15-999d-feb951956864" name="End" type="End">

<subsheetsid>fa6ed646-8ae1-479e-9845-b1dc9ac3b560</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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```
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<outputs>

<output type="collection" name="Collection Out" narrative="The collection with the empty rows removed" s

</outputs>

</stage>

<stage stageid="613bed47-0c41-4155-93a3-5b31823f6048" name="Collection In" type="Collection">

<subsheetsid>fa6ed646-8ae1-479e-9845-b1dc9ac3b560</subsheetsid>

<narrative>

</narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="af6c216c-aac3-4b4e-b7cb-bbf0a7863c49" name="Collection Out" type="Collection">

<subsheetsid>fa6ed646-8ae1-479e-9845-b1dc9ac3b560</subsheetsid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="6c450e6a-55ae-4382-a419-e4c6d59fc580" name="Remove empty rows" type="Code">

<subsHEETid>fa6ed646-8ae1-479e-9845-b1dc9ac3b560</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-15</displayx>

<displayy>-15</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Collection In" expr="[Collection In]"/>

</inputs>

<outputs>

<output type="collection" name="Collection Out" stage="Collection Out"/>

</outputs>

<onsuccess>0e663c5b-fb8a-4f15-999d-feb951956864</onsuccess>

<code>

Dim bRemove as Boolean

Dim iRow as integer

' Loop through each row

For iRow = Collection_In.Rows.Count - 1 to 0 step -1

```

'For each Row as DataRow in Collection_In.Rows

bRemove=True

' Loop through every column for this row

For each Column as DataColumn in Collection_In.Columns
if Trim(Collection_In.Rows(iRow)(Column.ColumnName).ToString()) && "" <> "" then
bRemove=False
exit for
end if
Next

if bRemove=True then
Collection_In.Rows.Remove(Collection_In.Rows(iRow))
end if
Next

Collection_Out = Collection_In.Copy</code>

</stage>

<stage stageid="28f98de9-8408-4312-9e37-37197c2d8822" name="Transpose Collection" type="SubSheet">
<subsheets>
<subsheetid>a0cf6615-20c0-4910-9990-0f79f5f30bca</subsheetid>
<narrative>Creates a new collection with the fields Name and Value and for each row in the original collection
<displayx>-195</displayx>
<displayy>-105</displayy>
<displaywidth>150</displaywidth>
<displayheight>90</displayheight>
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</stage>

<stage stageid="26ce26e2-1a34-4a20-97d8-34ab15954720" name="Start" type="Start">

```

<subsHEETid>a0cf6615-20c0-4910-9990-0f79f5f30bca</subsHEETid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The collection will be transposed."/>

</postconditions>

<narrative>

</narrative>

<displayx>30</displayx>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="Collection" narrative="The collection to transpose." stage="Collection In"/>

</inputs>

<onsuccess>c3e45cac-9a76-4b70-a119-ffed9ceaeac</onsuccess>

</stage>

<stage stageid="c9852e45-8999-4b73-a581-4a3f66b95b3a" name="End" type="End">

<subsHEETid>a0cf6615-20c0-4910-9990-0f79f5f30bca</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>30</displayx>

<displayy>75</displayy>

<displaywidth>60</displaywidth>

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<outputs>

<output type="collection" name="Appended Collection" narrative="The transposed collection." stage="Collection In"/>

</outputs>

</stage>

<stage stageid="c3e45cac-9a76-4b70-a119-ffed9ceaeac" name="Transpose" type="Code">

<subsheets><subsheetid>a0cf6615-20c0-4910-9990-0f79f5f30bca</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>30</displayx>

<displayy>-30</displayy>

<displaywidth>60</displaywidth>

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<inputs>

<input type="collection" name="Collection" expr="[Collection In]"/>

</inputs>

<outputs>

<output type="collection" name="New Collection" stage="Collection Out"/>

</outputs>

<onsuccess>c9852e45-8999-4b73-a581-4a3f66b95b3a</onsuccess>

<code>

New_Collection = GetDataTable("Name,Value", "System.String,System.String")

Dim New_Row As System.Data.DataRow

For Each r As System.Data.DataRow In Collection.Rows

For Each c As System.Data.DataColumn In Collection.Columns

New_Row = New_Collection.NewRow()

New_Row("Name") = c.ColumnName

New_Row("Value") = GetStringValue(r, c.ColumnName)

New_Collection.Rows.Add(New_Row)

Next

Next

</code>

</stage>

<stage stageid="d2f68cb8-90cf-4414-8554-daf4fa4c9f29" name="Collection Out" type="Collection">

<subsheetsid>a0cf6615-20c0-4910-9990-0f79f5f30bca</subsheetsid>

<narrative>

</narrative>

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<displayheight>60</displayheight>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="99b09a03-6901-47ee-af4d-d43bfcf3bb42" name="Collection In" type="Collection">

<subsheetsid>a0cf6615-20c0-4910-9990-0f79f5f30bca</subsheetsid>

<narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="90d519f8-3075-478e-a49f-b681d1ddd033" name="Field Exists" type="SubSheetInfo">

<subsheetsid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetsid>

<narrative>Finds out whether the collection contains a given field.</narrative>

<displayx>-135</displayx>

<displayy>-120</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="8605b0b2-ff16-473b-ba5d-1956390f48bd" name="Start" type="Start">

<subsheetsid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<narrative>

</narrative>

```
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<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Input Collection" narrative="The collection to check." stage="Input Collection"/>

<input type="text" name="Field" narrative="The field to check for." stage="Field"/>

</inputs>

<onsuccess>da5abfb8-f52a-4a03-8f9f-ec5e42dd4566</onsuccess>

</stage>

<stage stageid="26b8ca01-8895-483f-93ef-66df5bbb0a34" name="End" type="End">

<subsheetsid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetsid>

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<narrative>

</narrative>

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<displayy>255</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<outputs>

<output type="flag" name="Exists" narrative="True if the collection contains the field." stage="Exists"/>

</outputs>

</stage>

<stage stageid="da5abfb8-f52a-4a03-8f9f-ec5e42dd4566" name="Get Collection Fields" type="SubSheet">

<subsheetsid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetsid>
```

```
<loginhibit/>

<narrative>

</narrative>

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<displayy>-30</displayy>

<displaywidth>90</displaywidth>

<displayheight>60</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Input Collection" expr="[Input Collection]"/>

</inputs>

<outputs>

<output type="collection" name="Collection Fields" stage="Field Names"/>

</outputs>

<onsuccess>470c6c27-3ed4-43b7-8c01-3fc7415ec55e</onsuccess>

<processid>e277cc2b-72b8-47e9-8a1b-e8530eb19a09</processid>

</stage>

<stage stageid="a910c0ad-5130-4073-8f3a-8cf76bc7d74e" name="Input Collection" type="Collection">

<subsheetsid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetsid>

<narrative>

</narrative>

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<displaywidth>150</displaywidth>

<displayheight>60</displayheight>

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<datatype>collection</datatype>
```

```
<private/>

<alwaysinit/>

</stage>

<stage stageid="66e1609e-c3e7-4e35-82df-90254a0d842f" name="Field" type="Data">

<subsheetid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetid>

<narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="470c6c27-3ed4-43b7-8c01-3fc7415ec55e" name="Field Names" type="LoopStart">

<subsheetid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetid>

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```

```
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<groupid>755a928d-1109-4393-b44a-e265a1395a22</groupid>

<looptype>ForEach</looptype>

<loopdata>Field Names</loopdata>

</stage>

<stage stageid="54fa6a7b-f874-43d4-ac4a-4c16f28d1a9f" name="Field Names" type="LoopEnd">

<subsheetid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetid>

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</narrative>

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<onsuccess>26b8ca01-8895-483f-93ef-66df5bbb0a34</onsuccess>

<groupid>755a928d-1109-4393-b44a-e265a1395a22</groupid>

</stage>

<stage stageid="15f784c0-4879-4a2e-ab6f-c44f5c384d85" name="Field Names" type="Collection">

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<displayy>120</displayy>

<displaywidth>150</displaywidth>

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```

<datatype>collection</datatype>

<private/>

<alwaysinit/>

<collectioninfo>

<field name="Field Name" type="text"/>

<field name="Data Type" type="text"/>

</collectioninfo>

</stage>

<stage stageid="905724f1-237f-4641-9511-289841ec3498" name="Exists" type="Data">

<subsheetsid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetsid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="eb7af2be-1265-40b6-8ea7-89fdda2b0ab1" name="Match?" type="Decision">

<subsheetsid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetsid>

<loginhibit/>

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</narrative>


```
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<displayy>120</displayy>

<displaywidth>90</displaywidth>

<displayheight>60</displayheight>

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<decision expression="[Field Names.Field Name] = Trim([Field])"/>

<ontrue>c4532590-c3c0-4014-98f4-bc3e1f30e5df</ontrue>

<onfalse>54fa6a7b-f874-43d4-ac4a-4c16f28d1a9f</onfalse>

</stage>

<stage stageid="d656772f-8ec9-4848-8f30-a4bda4f01837" name="anchor2" type="Anchor">

<subsheetid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<onsuccess>26b8ca01-8895-483f-93ef-66df5bbb0a34</onsuccess>

</stage>

<stage stageid="c4532590-c3c0-4014-98f4-bc3e1f30e5df" name="Exists" type="Calculation">

<subsheetid>4d41bfc8-e552-41ae-9e45-65dc3d1f7276</subsheetid>

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<narrative>

</narrative>

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```
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<onsuccess>d656772f-8ec9-4848-8f30-a4bda4f01837</onsuccess>

<calculation expression="True" stage="Exists"/>

</stage>

<stage stageid="2e050fc0-fed0-49b4-bafc-a33a0aee5ad9" name="Success?" type="Decision">

<subsheetid>3a772458-463d-46cf-8451-6cf5b4aeae30</subsheetid>

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<narrative>

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<decision expression="[Success]"/>

<ontrue>c491f60e-4aa7-4abb-a203-5a78c0b64469</ontrue>

<onfalse>510a1b6e-59d7-40a0-8886-483ef66093e9</onfalse>

</stage>

<stage stageid="510a1b6e-59d7-40a0-8886-483ef66093e9" name="FAIL" type="Exception">

<subsheetid>3a772458-463d-46cf-8451-6cf5b4aeae30</subsheetid>

<narrative>

</narrative>

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```

```
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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<exception type="UtilityException" detail="&quot;Error occurred removing null rows: &quot; &quot;

</stage>

</process>

<process name="Utility - Date and Time Manipulation" version="6.7.0.0" narrative="Utility functions for mar

<appdef>

<element name="Application Root">

<type>Application</type>

<basetype>Application</basetype>

<id>b30f5d67-5c3c-49c9-8f9b-66d573097498</id>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

</appdef>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="9a74af4c-280a-4e30-bdbb-21295b6256ca" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

<camerax>0</camerax>
```

<cameray>42</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="6516a093-7eae-4d9c-b6e4-f1cfd6ed5668" type="Normal" published="True">

<name>Format Date</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="3faad3c6-8a21-4d44-9df6-4c69213d552f" type="Normal" published="True">

<name>DateAdd</name>

<view>

<camerax>0</camerax>

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<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="a15c8b3f-df2f-4461-a42c-41f5afdbf123" type="Normal" published="True">

<name>Get Time of Day</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="d92822f9-e820-40af-98f7-53accd5a8b1d" type="Normal" published="True">

<name>Get Last Working Day</name>

<view>

<camerax>-6</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="44144695-c6e6-4781-80a7-cbda94215737" type="Normal" published="True">

<name>Get Maximum TimeSpan</name>

<view>

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<cameray>-36</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="2593a374-b6d7-4604-9663-f29713768d5e" type="Normal" published="True">

<name>UTC To Local</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="cd37e9f9-3117-4a15-915b-2244c21cde9a" type="Normal" published="True">

<name>Local To UTC</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="beb9635e-b787-4e2e-ae55-7eccc9fb8e14" type="Normal" published="True">

<name>Get Time Zones</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<stage stageid="d8c547cc-60d0-459b-876f-90bf696a5757" name="Start" type="Start">

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<onsuccess>807e7d33-91e2-4241-a85e-ea0718fc487d</onsuccess>

</stage>

<stage stageid="807e7d33-91e2-4241-a85e-ea0718fc487d" name="End" type="End">

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

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</stage>

<stage stageid="1a8c9ebd-54e1-442f-a6c7-e87df3b59232" name="Stage1" type="ProcessInfo">

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

<import>System.IO</import>

<import>System.XML</import>

```
<import>System.Diagnostics</import>
```

```
<import>Microsoft.VisualBasic</import>
```

```
<import>System.Data</import>
```

```
<import>system.text.regularexpressions</import>
```

```
</imports>
```

```
<language>visualbasic</language>
```

```
<globalcode>
```

```
</globalcode>
```

```
<code>Public Function GetDataTable(ByVal ColumnNamesCSV As String, ByVal ColumnTypesCSV As S
```

```
Dim objTable As DataTable
```

```
Dim objColumn As DataColumn
```

```
Dim aColumnNames As String() = ColumnNamesCSV.Split(",")
```

```
Dim aColumnTypes As String() = ColumnTypesCSV.Split(",")
```

```
Try
```

```
objTable = New DataTable
```

```
For i As Integer = 0 To aColumnNames.Length - 1
```

```
objColumn = New DataColumn
```

```
objColumn.DataType = System.Type.GetType(aColumnTypes(i).Trim)
```

```
objColumn.ColumnName = aColumnNames(i).Trim
```

```
objTable.Columns.Add(objColumn)
```

```
Next
```

```
Catch e As Exception
```

```
objTable = nothing
```

```
End Try
```


Return objTable

End Function

```
</code>

</stage>

<stage stageid="0bf7814a-647b-4bcb-b6a6-3d24dfd5b736" name="Clean Up" type="SubSheetInfo">
<subsheetsid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetsid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

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</stage>

<stage stageid="0c56e2f8-68ce-48a3-97ad-81e1f076e9ce" name="new" type="Note">

<narrative>Initialise Page
```

This is an optional page where you might choose to perform some initialisation tasks after your business object is loaded.

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than after the business object is loaded.

```
<displayx>-180</displayx>

<displayy>60</displayy>
```

```
<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="2cc85317-9c46-427c-b966-cb7abb1454c6" name="Format Date" type="SubSheetInfo">

<subsheetsid>6516a093-7eae-4d9c-b6e4-f1cfd6ed5668</subsheetsid>

<narrative>Formats a date according to the given format string.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="4c3fe2ef-c631-4aae-bbd4-c5008db9045c" name="Start" type="Start">

<subsheetsid>6516a093-7eae-4d9c-b6e4-f1cfd6ed5668</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The date will be formatted."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>
```

<displayheight>30</displayheight>

<inputs>

<input type="datetime" name="Date Time" narrative="The Date to format" stage="Date Time"/>

<input type="text" name="Format" narrative="The format template text" stage="Format"/>

</inputs>

<onsuccess>ec339a00-b716-496d-a202-d126d86d3b82</onsuccess>

</stage>

<stage stageid="77a0cce8-1a21-4165-9a0f-adf9fec90d5c" name="End" type="End">

<subsHEETid>6516a093-7eae-4d9c-b6e4-f1cfd6ed5668</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="text" name="Formatted Date" narrative="The formatted date as text." stage="Formatted Date">

</outputs>

</stage>

<stage stageid="cf5e7769-db59-4bb7-8253-e366e619c115" name="Date Time" type="Data">

<subsHEETid>6516a093-7eae-4d9c-b6e4-f1cfd6ed5668</subsHEETid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>datetime</datatype>

<initialvalue>2009-03-16 07:40:48Z</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="ec339a00-b716-496d-a202-d126d86d3b82" name="Format Date" type="Code">

<subsheetsid>6516a093-7eae-4d9c-b6e4-f1cfd6ed5668</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="datetime" name="Date Time" expr="[Date Time]"/>

<input type="text" name="Formatting" expr="[Format]"/>

</inputs>

<outputs>

<output type="text" name="Formatted Date" stage="Formatted Date"/>

</outputs>

<onsuccess>77a0cce8-1a21-4165-9a0f-adf9fec90d5c</onsuccess>

```
<code>try
```

```
Formatted_Date = Format(Date_Time, Formatting)
```

```
catch e as exception
```

```
end try</code>
```

```
</stage>
```

```
<stage stageid="a7c1c56b-526f-42cb-8f9c-fd85e0dc4358" name="Formatted Date" type="Data">
```

```
<subsheetsid>6516a093-7eae-4d9c-b6e4-f1cfd6ed5668</subsheetsid>
```

```
<narrative>
```

```
</narrative>
```

```
<displayx>-195</displayx>
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```
<displayy>45</displayy>
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```
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```
<displayheight>30</displayheight>
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```
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```

```
<datatype>text</datatype>
```

```
<initialvalue/>
```

```
<private/>
```

```
<alwaysinit/>
```

```
</stage>
```

```
<stage stageid="1d34679f-edb9-47df-8413-eb6529085bea" name="Format" type="Data">
```

```
<subsheetsid>6516a093-7eae-4d9c-b6e4-f1cfd6ed5668</subsheetsid>
```

```
<narrative>
```

```
</narrative>
```

```
<displayx>-195</displayx>
```

```
<displayy>15</displayy>
```

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue xml:space="preserve">yyyy-MM-dd hh:mm:ss</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2271a79e-27e5-4434-b5be-146e02946317" name="new" type="Note">

<subsheetsid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetsid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="36451c72-b274-4817-a153-beb1e8a6e76a" name="Start" type="Start">

<subsheetsid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetsid>

<loginhibit/>

<narrative>

```
</narrative>

<displayx>30</displayx>

<displayy>-120</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>9a8c4505-8606-4a0c-b118-09a6b9932b3b</onsuccess>

</stage>

<stage stageid="9a8c4505-8606-4a0c-b118-09a6b9932b3b" name="End" type="End">

<subsheetsid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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</stage>

<stage stageid="55239e62-5f23-4636-b00f-3f92c2dd2b57" name="DateAdd" type="SubSheetInfo">

<subsheetsid>3faad3c6-8a21-4d44-9df6-4c69213d552f</subsheetsid>

<narrative>Adds a specified number of hours minutes or seconds to the given date.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

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```

```
</stage>

<stage stageid="dbfbfb9d-819d-4766-b61d-23f72fdc3eac" name="Start" type="Start">

<subsheetsid>3faad3c6-8a21-4d44-9df6-4c69213d552f</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The date will have the specified quantity added to it."/>

</postconditions>

<narrative>

</narrative>

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<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<inputs>

<input type="datetime" name="DateTime" narrative="The date to which to add Hours Minutes or Seconds"

<input type="number" name="Hours" narrative="OPTIONAL: The number of hours to add" stage="Hours"/>

<input type="number" name="Minutes" narrative="OPTIONAL: The number of minutes to add" stage="Minutes"

<input type="number" name="Seconds" narrative="OPTIONAL: The number of seconds to add" stage="Seconds"

</inputs>

<onsuccess>e9d3896b-765f-4351-99f6-d0c611db1d0f</onsuccess>

</stage>

<stage stageid="837296b5-d951-45d5-9a71-15d6adb842af" name="End" type="End">

<subsheetsid>3faad3c6-8a21-4d44-9df6-4c69213d552f</subsheetsid>
```


<loginhibit/>

<narrative>

</narrative>

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<displayy>90</displayy>

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<displayheight>30</displayheight>

<outputs>

<output type="datetime" name="Result" narrative="The date with the number of hours minutes or seconds

</outputs>

</stage>

<stage stageid="e3a0af02-a848-4ea8-8995-8aa784761a7a" name="Hours" type="Data">

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<alwaysinit/>

</stage>

<stage stageid="cb09e128-7238-4da3-9961-ae76391bf4fa" name="Minutes" type="Data">

<subsheetid>3faad3c6-8a21-4d44-9df6-4c69213d552f</subsheetid>

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</narrative>

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<datatype>number</datatype>

<initialvalue>0</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="ef1f06cf-1992-4ffb-8340-f7c18a441aa9" name="Seconds" type="Data">

<subsheetid>3faad3c6-8a21-4d44-9df6-4c69213d552f</subsheetid>

<narrative>

</narrative>

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<alwaysinit/>

</stage>

<stage stageid="b61357e2-8f6e-4e65-9981-95950bb33f23" name="DateTime" type="Data">

<subsHEETid>3faad3c6-8a21-4d44-9df6-4c69213d552f</subsHEETid>

<narrative>

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<datatype>datetime</datatype>

<initialvalue>2009-06-11 05:50:18Z</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e9d3896b-765f-4351-99f6-d0c611db1d0f" name="DateAdd1" type="Code">

<subsHEETid>3faad3c6-8a21-4d44-9df6-4c69213d552f</subsHEETid>

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<narrative>

</narrative>

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<displayheight>30</displayheight>

<inputs>

<input type="datetime" name="d" expr="[DateTime]"/>

<input type="number" name="h" expr="[Hours]"/>

```
<input type="number" name="m" expr="[Minutes]"/>
<input type="number" name="s" expr="[Seconds]"/>
</inputs>
<outputs>
<output type="datetime" name="Result" stage="Result DateTime"/>
</outputs>
<onsuccess>837296b5-d951-45d5-9a71-15d6adb842af</onsuccess>
<code>
```

```
Result = d.AddHours(h).AddMinutes(m).AddSeconds(s)</code>
```

```
</stage>
<stage stageid="2335b3c0-55db-4269-94ed-200e9fcc07e9" name="Result DateTime" type="Data">
<subsheetid>3faad3c6-8a21-4d44-9df6-4c69213d552f</subsheetid>
<narrative>
</narrative>
<displayx>-195</displayx>
<displayy>105</displayy>
<displaywidth>150</displaywidth>
<displayheight>30</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<datatype>datetime</datatype>
<initialvalue/>
<private/>
<alwaysinit/>
</stage>
```

```
<stage stageid="22cedbad-f117-4ee4-bd71-2a5f6c220cb6" name="Get Time of Day" type="SubSheetInfo"
<subsheetid>a15c8b3f-df2f-4461-a42c-41f5afdbf123</subsheetid>
```

<narrative>Gets the current time of day as a timespan, as reported by the operating system.

Use UTC - if true, the current time will be expressed in UTC. Otherwise, it is expressed in the local time, as

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="53fc2493-6fda-4782-8934-42e13b047e5c" name="End" type="End">

<subsheetid>a15c8b3f-df2f-4461-a42c-41f5afdbf123</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>135</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="timespan" name="Time of Day" narrative="The time of day as a timespan" stage="Time of Day">

</outputs>

</stage>

<stage stageid="19b73e7b-2913-41ec-9c1d-36c19f8de2fa" name="Get Time of Day" type="Code">

<subsheetid>a15c8b3f-df2f-4461-a42c-41f5afdbf123</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>135</displayx>

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<displayheight>30</displayheight>

<inputs>

<input type="flag" name="Use UTC" expr="[Use UTC]"/>

</inputs>

<outputs>

<output type="timespan" name="Time of Day" stage="Time of Day"/>

</outputs>

<onsuccess>53fc2493-6fda-4782-8934-42e13b047e5c</onsuccess>

<code>Dim RightNow as DateTime = DateTime.Now

If Use_UTC Then

RightNow = DateTime.UtcNow

End If

Time_of_Day = RightNow.Subtract(DateTime.Today)</code>

</stage>

<stage stageid="a091940e-6fdc-44cf-9d55-e516d14fa0c5" name="Time of Day" type="Data">

<subsheetsid>a15c8b3f-df2f-4461-a42c-41f5afdbf123</subsheetsid>

<narrative>

</narrative>

<displayx>240</displayx>

<displayy>-15</displayy>

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<datatype>timespan</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="b543f1fa-0821-4bbf-a15a-90deeea26246" name="Start" type="Start">

<subsheetid>a15c8b3f-df2f-4461-a42c-41f5afdbf123</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The current time of day will have been calculated."/>

</postconditions>

<narrative>

</narrative>

<displayx>135</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="flag" name="Use UTC" narrative="Set True if the time its required as Universal Time Coordin

</inputs>

<onsuccess>19b73e7b-2913-41ec-9c1d-36c19f8de2fa</onsuccess>
```

</stage>

<stage stageid="4625da5f-2d4f-49a4-b134-a51c2425c157" name="Use UTC" type="Data">

<subsHEETid>a15c8b3f-df2f-4461-a42c-41f5afdbf123</subsHEETid>

<narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="63c99096-e244-4194-bce2-c13b3d3baed0" name="Get Last Working Day" type="SubShe

<subsHEETid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsHEETid>

<narrative>Gets the last weekday of the given month and year. If no month/year is given, the current month

The value returned is the date (ie. the day in the month) of the last weekday in the given month. A return va

<displayx>-180</displayx>

<displayy>-135</displayy>

<displaywidth>240</displaywidth>

<displayheight>120</displayheight>

</stage>

<stage stageid="3c50b663-acf3-4122-8e8b-ead4802ee437" name="Start" type="Start">

<subsHEETid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsHEETid>


```
<loginhibit/>

<narrative>Gets the last working day of the given month / year.

Currently synonymous with getting the last *week* day of the given month year, though bank holiday support

<displayx>15</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="number" name="Month" narrative="The month of the year" stage="Month"/>

<input type="number" name="Year" narrative="The year." stage="Year"/>

</inputs>

<onsuccess>35e0a5d0-e3da-4255-a20d-6d45de202a6f</onsuccess>

</stage>

<stage stageid="b9d57b5c-797b-4592-83e4-7a24ca15c1a6" name="End" type="End">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="number" name="Working Day" narrative="The last working day of the month" stage="Working Day"/>

</outputs>
```

```
</stage>

<stage stageid="098af183-1667-4b2f-8deb-1cc0620b95b2" name="Year" type="Data">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<narrative>

</narrative>

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<datatype>number</datatype>

<initialvalue>0</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="f413fe16-e03f-4b67-b2bd-b49592366e3e" name="Month" type="Data">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue>0</initialvalue>

<private/>
```

```
<alwaysinit/>

</stage>

<stage stageid="92fbace1-d10b-433c-8fed-fe1c26dbc518" name="Working Day" type="Data">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<narrative>

</narrative>

<displayx>-240</displayx>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e625be80-4bab-4171-a32d-4016e936a412" name="GetLastWorkingDay" type="Code">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>45</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>
```

```
<input type="number" name="Month" expr="[Month]"/>

<input type="number" name="Year" expr="[Year]"/>

</inputs>

<outputs>

<output type="number" name="Day" stage="Working Day"/>

</outputs>

<onsuccess>b9d57b5c-797b-4592-83e4-7a24ca15c1a6</onsuccess>

<code>Day = DateTime.DaysInMonth(Year, Month)

Dim dt as New DateTime(Year, Month, Day)

While True

Select Case dt.DayOfWeek

Case DayOfWeek.Saturday,DayOfWeek.Sunday

Day -= 1

dt = New DateTime(Year, Month, Day)

Case Else

Return

End Select

End While</code>

</stage>

<stage stageid="35e0a5d0-e3da-4255-a20d-6d45de202a6f" name="Month &amp; Year Empty?" type=

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-90</displayy>

<displaywidth>90</displaywidth>
```

```
<displayheight>30</displayheight>

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<decision expression="[Month] = 0 AND [Year] = 0"/>

<ontrue>b8ca2a17-7daf-4166-ba91-14ded7cce776</ontrue>

<onfalse>11958d80-d666-4466-a27e-977163030022</onfalse>

</stage>

<stage stageid="b8ca2a17-7daf-4166-ba91-14ded7cce776" name="Get Month of Today" type="Calculation">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>-90</displayy>

<displaywidth>60</displaywidth>

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<onsuccess>aa7dcdfd-36c3-455e-ac32-d688f1ab4db8</onsuccess>

<calculation expression="FormatDate(Today(), &quot;MM&quot;)" stage="Month"/>

</stage>

<stage stageid="aa7dcdfd-36c3-455e-ac32-d688f1ab4db8" name="Get Year of Today" type="Calculation">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>-90</displayy>

<displaywidth>60</displaywidth>
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<displayheight>30</displayheight>

<onsuccess>9cc58b0b-db3f-482e-95d9-ffa1380515ec</onsuccess>

<calculation expression="FormatDate(Today(), "yyyy")" stage="Year"/>

</stage>

<stage stageid="9cc58b0b-db3f-482e-95d9-ffa1380515ec" name="anchor1" type="Anchor">

<subsHEETid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

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<onsuccess>6de1714a-92eb-4cd0-bef1-dbe4598f6b20</onsuccess>

</stage>

<stage stageid="6de1714a-92eb-4cd0-bef1-dbe4598f6b20" name="anchor2" type="Anchor">

<subsHEETid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>0</displayy>

<displaywidth>10</displaywidth>

<displayheight>10</displayheight>

<onsuccess>e625be80-4bab-4171-a32d-4016e936a412</onsuccess>

</stage>

<stage stageid="11958d80-d666-4466-a27e-977163030022" name="Month OR Year Empty?" type="Decision">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>-45</displayy>

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<displayheight>30</displayheight>

<decision expression="[Month] = 0 OR [Year] = 0"/>

<ontrue>61e4a055-8b98-4332-84e7-844b0b1f2b30</ontrue>

<onfalse>6de1714a-92eb-4cd0-bef1-dbe4598f6b20</onfalse>

</stage>

<stage stageid="61e4a055-8b98-4332-84e7-844b0b1f2b30" name="Error: Return -1" type="Calculation">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<onsuccess>55503d4b-dd2f-46a4-abf7-6b68b3f11c4e</onsuccess>

```
<calculation expression="-1" stage="Working Day"/>

</stage>

<stage stageid="55503d4b-dd2f-46a4-abf7-6b68b3f11c4e" name="End" type="End">

<subsheetid>d92822f9-e820-40af-98f7-53accd5a8b1d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<outputs>

<output type="number" name="Working Day" narrative="The last working day of the month" stage="Working Day" value="1" />

</outputs>

</stage>

<stage stageid="717a0494-c064-4882-b1fe-774df9a21423" name="Get Maximum TimeSpan" type="SubSheet">

<subsheetid>44144695-c6e6-4781-80a7-cbda94215737</subsheetid>

<narrative>Gets the maximum timespan from a collection of timespan values</narrative>

<displayx>-195</displayx>

<displayy>-150</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="3e99ca05-4f18-45c4-98cc-91ebfc8cf4f0" name="Start" type="Start">

<subsheetid>44144695-c6e6-4781-80a7-cbda94215737</subsheetid>
```



```
<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The maximum timespan will be found."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="collection" name="Timespan Values" narrative="A collection of timespan values" stage="Time

</inputs>

<onsuccess>b63b3567-309e-47ca-a1da-b12798e2cde0</onsuccess>

</stage>

<stage stageid="64485ded-6777-4852-a8cc-f866a980e3c0" name="End" type="End">

<subsheetsid>44144695-c6e6-4781-80a7-cbda94215737</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>180</displayy>

<displaywidth>60</displaywidth>
```

```
<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="timespan" name="Maximum Timespan Value" narrative="The maximum of all of the timespa

</outputs>

</stage>

<stage stageid="51491768-b683-4c5b-a150-f03943247d70" name="Timespan Values" type="Collection">

<subsheetid>44144695-c6e6-4781-80a7-cbda94215737</subsheetid>

<narrative>

</narrative>

<displayx>135</displayx>

<displayy>-105</displayy>

<displaywidth>120</displaywidth>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

<collectioninfo>

<field name="Timespan Value" type="timespan"/>

</collectioninfo>

</stage>

<stage stageid="1d879bc2-5cd1-4e25-8d37-c157e1133cf0" name="Minimum Timespan Value" type="Data

<subsheetid>44144695-c6e6-4781-80a7-cbda94215737</subsheetid>

<loginhibit/>

<narrative>

</narrative>
```

<displayx>-210</displayx>

<displayy>-75</displayy>

<displaywidth>180</displaywidth>

<displayheight>30</displayheight>

<datatype>timespan</datatype>

<initialvalue>00:00:00</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="b63b3567-309e-47ca-a1da-b12798e2cde0" name="Start with Minimum" type="Calculation

<subsheetsid>44144695-c6e6-4781-80a7-cbda94215737</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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<onsuccess>78ab136e-f028-4c03-a776-9124fda261ad</onsuccess>

<calculation expression="[Minimum Timespan Value]" stage="Maximum Timespan Value"/>

</stage>

<stage stageid="9c67b24d-115a-481f-9054-ca7d6fa0408a" name="Maximum Timespan Value" type="Data

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<datatype>timespan</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="78ab136e-f028-4c03-a776-9124fda261ad" name="For Each Value" type="LoopStart">

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<groupid>d78a55e4-d0ac-477c-b254-c21b2197d767</groupid>

<looptype>ForEach</looptype>

<loopdata>Timespan Values</loopdata>

</stage>

<stage stageid="11f34648-502a-4ea2-899f-4425d7c62d92" name="Next" type="LoopEnd">

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<groupid>d78a55e4-d0ac-477c-b254-c21b2197d767</groupid>

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<stage stageid="598192e8-9ae7-4965-bd01-e661d68c1641" name="Bigger?" type="Decision">

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<decision expression="[Timespan Values.Timespan Value] > [Maximum Timespan Value]"/>

<ontrue>5f08997c-0bb6-453f-ad1a-3326ca40e854</ontrue>

<onfalse>11f34648-502a-4ea2-899f-4425d7c62d92</onfalse>

</stage>

<stage stageid="5f08997c-0bb6-453f-ad1a-3326ca40e854" name="Assign As Maximum" type="Calculation">

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<onsuccess>7504cba9-325e-45b9-ab65-e382e7e6806c</onsuccess>

<calculation expression="[Timespan Values.Timespan Value]" stage="Maximum Timespan Value"/>

</stage>

<stage stageid="7504cba9-325e-45b9-ab65-e382e7e6806c" name="anchor3" type="Anchor">

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<stage stageid="2a516836-bff3-4b78-bdc4-330df04901d0" name="UTC To Local" type="SubSheetInfo">

<subsheetsid>2593a374-b6d7-4604-9663-f29713768d5e</subsheetsid>

<narrative>Convert a UTC datetime to a local datetime. This will default to the current system's local time z

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<stage stageid="0de534a1-d6e1-46ef-aa12-98fa3fa68a77" name="Start" type="Start">

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<narrative>

</narrative>

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<inputs>

<input type="datetime" name="UTC" narrative="The UTC datetime to convert" stage="UTC"/>

<input type="text" name="Time Zone ID" narrative="The ID of the timezone to use; Empty means to use the default"/>

</inputs>

<onsuccess>aee7adc4-1cbc-4041-8419-8baaf28efbd2</onsuccess>

</stage>

<stage stageid="e8f43b71-727a-4d71-b2c3-8328d54d619a" name="End" type="End">

<subsHEETid>2593a374-b6d7-4604-9663-f29713768d5e</subsHEETid>

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<narrative>

</narrative>

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<outputs>

<output type="datetime" name="local" narrative="The converted datetime" stage="local"/>

</outputs>

</stage>

<stage stageid="3222f3ee-169b-4360-bff5-f61770be52c8" name="Local To UTC" type="SubSheetInfo">

<subsheetsid>cd37e9f9-3117-4a15-915b-2244c21cde9a</subsheetsid>

<narrative>Convert a local datetime to a UTC datetime. The local datetime will default to the current system

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</stage>

<stage stageid="8a24056a-bd55-42d4-912e-00817495beb0" name="Start" type="Start">

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<narrative>

</narrative>

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<inputs>

<input type="datetime" name="local" narrative="The local datetime to convert" stage="local"/>

<input type="text" name="Time Zone ID" narrative="The ID of the timezone to use; Empty means to use the local time zone" stage="local"/>

</inputs>

<onsuccess>4c971a75-78df-40c8-a504-a01823ccbc30</onsuccess>

</stage>

<stage stageid="5003b4bf-c249-4844-b10e-e6eadd217a7a" name="End" type="End">

<subsheetid>cd37e9f9-3117-4a15-915b-2244c21cde9a</subsheetid>

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<outputs>

<output type="datetime" name="UTC" narrative="The converted datetime" stage="UTC"/>

</outputs>

</stage>

<stage stageid="aee7adc4-1cbc-4041-8419-8baaf28efbd2" name="UTC To Local" type="Code">

<subsheetid>2593a374-b6d7-4604-9663-f29713768d5e</subsheetid>

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</narrative>

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<inputs>

<input type="datetime" name="UTC" expr="[UTC]"/>

<input type="text" name="Time Zone ID" expr="[Time Zone ID]"/>

</inputs>

<outputs>

<output type="datetime" name="local" stage="local"/>

</outputs>

<onsuccess>e8f43b71-727a-4d71-b2c3-8328d54d619a</onsuccess>

<code>Dim utcDateTime = DateTime.SpecifyKind(UTC, DateTimeKind.Utc)

Dim tz As TimeZoneInfo

If Time_Zone_ID <> "" Then

tz = TimeZoneInfo.FindSystemTimeZoneById(Time_Zone_ID)

local = TimeZoneInfo.ConvertTimeFromUtc(utcDateTime, tz)

Else

local = utcDateTime.ToLocalTime()

End If

' BP converts local dates back to UTC for its

' internal representation; so we have to convince it that

' this is UTC already so it doesn't convert it further.

local = DateTime.SpecifyKind(local, DateTimeKind.UTC)

</code>

</stage>

<stage stageid="4c971a75-78df-40c8-a504-a01823ccbc30" name="Local To UTC" type="Code">

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<narrative>

</narrative>

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<inputs>

<input type="datetime" name="local" expr="[local]"/>

<input type="text" name="Time Zone ID" expr="[Time Zone ID]"/>

</inputs>

<outputs>

<output type="datetime" name="UTC" stage="UTC"/>

</outputs>

<onsuccess>5003b4bf-c249-4844-b10e-e6eadd217a7a</onsuccess>

<code>Dim unspecTime As DateTime = DateTime.SpecifyKind(local, DateTimeKind.Unspecified)

Dim localTime As DateTime = DateTime.SpecifyKind(local, DateTimeKind.Local)

If Time_Zone_ID <> "" Then

Dim tz = TimeZoneInfo.FindSystemTimeZoneById(Time_Zone_ID)

UTC = TimeZoneInfo.ConvertTimeToUtc(unspecTime, tz)

Else

```
UTC = localTime.ToUniversalTime()
```

```
End If</code>
```

```
</stage>
```

```
<stage stageid="2e384e01-3462-4407-9d4a-bb84e69fec5b" name="Get Time Zones" type="SubSheetInfo
```

```
<subsheetsid>beb9635e-b787-4e2e-ae55-7eccc9fb8e14</subsheetsid>
```

```
<narrative>Returns a collection of all the time zones IDs that are available on the local system. These valu
```

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</stage>
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<stage stageid="e07ebc8a-6c21-451a-9694-23a299cfeabb" name="Start" type="Start">
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</stage>
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<stage stageid="9f86a6cb-2466-4f71-9137-6e5dc0cfc917" name="End" type="End">
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</narrative>

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<outputs>

<output type="collection" name="Time Zones" narrative="Collection of current system Time Zone IDs" stag

</outputs>

</stage>

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<outputs>

<output type="collection" name="Time Zones" stage="Time Zones"/>

</outputs>

<onsuccess>9f86a6cb-2466-4f71-9137-6e5dc0cfc917</onsuccess>

<code>If Not Time_Zones.Columns.Contains("ID") Then _

Time_Zones.Columns.Add("ID", GetType(System.String))

```
For Each tz As TimeZoneInfo In TimeZoneInfo.GetSystemTimeZones()
```

```
Dim row As DataRow = Time_Zones.NewRow()
```

```
row("ID") = tz.ID
```

```
Time_Zones.Rows.Add(row)
```

```
Next
```

```
</code>
```

```
</stage>
```

```
<stage stageid="4663cb62-3121-4cba-863e-4fbd4f05d1fd" name="Time Zones" type="Collection">
```

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<alwaysinit/>
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</stage>
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<stage stageid="6c46c221-a69d-4f6c-84ca-23d88f61af59" name="UTC" type="Data">
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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="790a957b-4380-4207-b33d-26fded288a74" name="UTC" type="Data">

<subsheetsid>2593a374-b6d7-4604-9663-f29713768d5e</subsheetsid>

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<initialvalue/>

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<alwaysinit/>

</stage>

<stage stageid="084a7c0c-3275-48c7-ad67-c771e3defbf1" name="Time Zone ID" type="Data">

<subsheetsid>2593a374-b6d7-4604-9663-f29713768d5e</subsheetsid>

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</stage>

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<subsheetid>cd37e9f9-3117-4a15-915b-2244c21cde9a</subsheetid>

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<datatype>text</datatype>

<initialvalue/>

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</stage>

</process>

<process name="Utility - Encryption" version="6.7.0.0" narrative="Provides encryption and decryption facilities" type="Data">

<appdef>

<element name="Application Root">
```

<type>Application</type>

<id>b9f5d39b-531b-4b98-b9da-c7ed08901407</id>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

</appdef>

<view>

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<cameray>0</cameray>

<zoom>1</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

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<name>Clean Up</name>

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</view>

</subsheet>

<subsheet subsheetid="1b2e9b24-cbdb-4aa6-b9a0-d451bdfb438f" type="Normal" published="True">

<name>Encrypt</name>

<view>

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<zoom>1</zoom>

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</view>

</subsheet>

<subsheet subsheetid="20586e73-e078-43da-b00b-9d052295eecb" type="Normal" published="True">

<name>Decrypt</name>

<view>

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<zoom>1</zoom>

</view>

</subsheet>

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<onsuccess>622e357d-8ac2-4e2e-b10f-e80e135fc48d</onsuccess>

</stage>

<stage stageid="622e357d-8ac2-4e2e-b10f-e80e135fc48d" name="End" type="End">

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</stage>

<stage stageid="12e3aa5c-efb4-47e0-b169-4f02855564b2" name="Stage1" type="ProcessInfo">

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<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Security.Cryptography</import>

<import>System.IO</import>

</imports>

<language>visualbasic</language>

<globalcode>

</globalcode>
```

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<code>

</code>

</stage>

<stage stageid="e3d4fda3-ffba-4d1e-bcc4-06aa7440c45b" name="Clean Up" type="SubSheetInfo">

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</stage>

<stage stageid="f4b89015-c850-437b-bb19-3aeabe33d249" name="Start" type="Start">

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</stage>

<stage stageid="a31ca706-256d-499b-87e4-39e0c09cbc69" name="End" type="End">
```

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</stage>

<stage stageid="4597d737-b59f-4e02-a23d-a3428cb6bba8" name="Encrypt" type="SubSheetInfo">

<subsheetid>1b2e9b24-cbdb-4aa6-b9a0-d451bdfb438f</subsheetid>

<narrative>Encrypt some data.</narrative>

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<loginhibit/>

<preconditions>

<condition narrative="None"/>

</preconditions>

<postconditions>

<condition narrative="None"/>
```

```
</postconditions>

<narrative>

</narrative>

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<inputs>

<input type="text" name="Key" narrative="The encryption key to use" stage="Key"/>

<input type="text" name="Data" narrative="The data to encrypt" stage="Data"/>

</inputs>

<onsuccess>734bd83f-457c-4347-94cb-4cece2544136</onsuccess>

</stage>

<stage stageid="e26b20a7-400d-4867-9cb8-fcdb4ce1e699" name="End" type="End">

<subsheetsid>1b2e9b24-cbdb-4aa6-b9a0-d451bdfb438f</subsheetsid>

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<outputs>

<output type="text" name="Encrypted Data" narrative="The encrypted data" stage="Encrypted Data"/>

</outputs>
```

</stage>

<stage stageid="77aa8490-4891-49f1-987f-8c164fd47639" name="new" type="Note">

<subsheetid>e219f2ff-30c2-4789-8b2c-e5b9310d2b64</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="d847c244-af2d-4ebc-81aa-7f09de824436" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business ob

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>


```
<displayheight>230</displayheight>

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</stage>

<stage stageid="092d6796-e6c9-4478-9050-1ec78ca68950" name="Data" type="Data">

<subsheetsid>1b2e9b24-cbdb-4aa6-b9a0-d451bdfb438f</subsheetsid>

<narrative>

</narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="dbaf96d1-8668-401c-a657-f8f5fb5b975f" name="Key" type="Data">

<subsheetsid>1b2e9b24-cbdb-4aa6-b9a0-d451bdfb438f</subsheetsid>

<narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

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<subsheetid>1b2e9b24-cbdb-4aa6-b9a0-d451bdfb438f</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

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<displayheight>30</displayheight>

<inputs>

<input type="text" name="Data" expr="[Data]"/>

<input type="text" name="Key" expr="[Key]"/>

</inputs>

<outputs>

<output type="text" name="Encrypted Data" stage="Encrypted Data"/>

</outputs>

<onsuccess>e26b20a7-400d-4867-9cb8-fcdb4ce1e699</onsuccess>

<code> Dim ms As New MemoryStream

Dim keyb() As Byte = Convert.FromBase64String(Key)

Dim tdes As New TripleDESCryptoServiceProvider()

Dim encStream As New CryptoStream(ms, _

tdes.CreateEncryptor(keyb, tdes.IV), CryptoStreamMode.Write)

```
Dim sw As New StreamWriter(encStream)
```

```
sw.Write(Data)
```

```
sw.Flush()
```

```
encStream.FlushFinalBlock()
```

```
ms.Seek(0, SeekOrigin.Begin)
```

```
Dim encText As String = Convert.ToBase64String(ms.ToArray())
```

```
Dim ivs As String = Convert.ToBase64String(tdes.IV)
```

```
Encrypted_Data = ivs & "&" & encText
```

```
</code>
```

```
</stage>
```

```
<stage stageid="cd4e7115-ffe7-4be1-a978-2161ba505eea" name="Encrypted Data" type="Data">
```

```
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```

```
<narrative>
```

```
</narrative>
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```
<initialvalue/>
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```
<private/>
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```
<alwaysinit/>
```

```
</stage>
```

```
<stage stageid="aaa8aff2-fb2e-4f4f-a3db-71583977611c" name="Decrypt" type="SubSheetInfo">
```

```
<subsheetid>20586e73-e078-43da-b00b-9d052295eecb</subsheetid>
```

```
<narrative>Decrypt some data.</narrative>
```

```
<displayx>-195</displayx>

<displayy>-105</displayy>

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<displayheight>90</displayheight>

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</stage>

<stage stageid="0cd72686-0137-408d-ab7d-d2ab4f4191f6" name="Start" type="Start">

<subsheetsid>20586e73-e078-43da-b00b-9d052295eeeb</subsheetsid>

<loginhibit/>

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<condition narrative="None"/>

</preconditions>

<postconditions>

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<narrative>

</narrative>

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<inputs>

<input type="text" name="Key" narrative="The encryption key" stage="Key"/>

<input type="text" name="Encrypted Data" narrative="The encrypted data" stage="Encrypted Data"/>

</inputs>

<onsuccess>a0c0095f-59af-4312-8386-fce19b39daf4</onsuccess>
```

```
</stage>

<stage stageid="59d47d17-e5d3-4632-a10d-2aa24935bc95" name="End" type="End">

<subsheetid>20586e73-e078-43da-b00b-9d052295eeeb</subsheetid>

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<outputs>

<output type="text" name="Data" narrative="The decrypted data" stage="Data"/>

</outputs>

</stage>

<stage stageid="e28225a6-bd19-4762-86e1-82ea49549ed2" name="Key" type="Data">

<subsheetid>20586e73-e078-43da-b00b-9d052295eeeb</subsheetid>

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<initialvalue/>

<private/>
```

```
<alwaysinit/>

</stage>

<stage stageid="32f05ef2-3528-4cec-8808-ab276a81299e" name="Encrypted Data" type="Data">

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="79e34cd8-8823-4908-881c-b01d9741e8d1" name="Data" type="Data">

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<narrative>

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<datatype>text</datatype>

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```

```
<private/>

<alwaysinit/>

</stage>

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<displayheight>30</displayheight>

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<inputs>

<input type="text" name="EncryptedData" expr="[Encrypted Data]"/>

<input type="text" name="Key" expr="[Key]"/>

</inputs>

<outputs>

<output type="text" name="Data" stage="Data"/>

</outputs>

<onsuccess>59d47d17-e5d3-4632-a10d-2aa24935bc95</onsuccess>

<code>
```

```
Dim parts() As String = EncryptedData.Split(":")

If parts.Length <> 2 Then Throw New ApplicationException("Invalid data")

Dim iv() As Byte = Convert.FromBase64String(parts(0))

Dim datab() As Byte = Convert.FromBase64String(parts(1))

Dim keyb() As Byte = Convert.FromBase64String(Key)
```

```
Dim tdes As New TripleDESCryptoServiceProvider()  
  
Dim ms As New MemoryStream(datab)  
  
Dim encStream As New CryptoStream(ms, _  
tdes.CreateDecryptor(keyb, iv), CryptoStreamMode.Read)  
  
Using sr As New StreamReader(encStream)  
  
Data = sr.ReadToEnd()  
  
End Using
```

</code>

</stage>

</process>

<process name="Utility - Environment" version="6.7.0.0" bpversion="6.2.0.2669" narrative="Utilities for inte

<appdef>

<element name="Application Root">

<id>257afd68-bed2-460b-94e5-17b2b6263b15</id>

<type>Application</type>

<basetype>Application</basetype>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

</appdef>

<view>

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<zoom version="2">1.25</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

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<name>Font Smoothing Enabled</name>

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</view>

</subsheet>

<subsheet subsheetid="cf31a66d-5534-4af0-9a07-433066d1a4b9" type="Normal" published="True">

<name>Get Clipboard</name>

<view>

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<name>Set Clipboard</name>

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</view>

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<name>Clear Clipboard</name>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<name>Clean Up</name>

<view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="4987fdec-ac7a-4166-a60b-ade47ecdcc7" type="Normal" published="True">

<name>Get Screen Resolution</name>

<view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="80ee143b-0379-4ba5-b13f-5d42dde3160d" type="Normal" published="True">

<name>Start Process Read Stderr and Stdout</name>

<view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="e5864a25-e7a2-430a-9045-78a116e64701" type="Normal" published="True">

<name>Kill Process</name>

<view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="3d4412bd-579a-4d1e-937e-12fbb756630c" type="Normal" published="True">

<name>Read Memory Stats</name>

<view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="7b5cc7aa-ca53-495f-a51e-4ed559efe88b" type="Normal" published="True">

<name>Read Process Working Set</name>

<view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

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<name>Start Process</name>

<view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="29015311-1659-438e-b7b6-b8ff65e4a840" type="Normal" published="True">

<name>Run Process Until Ended</name>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="13c8f06e-8a7c-4da8-b813-d5738ce5369a" type="Normal" published="True">

<name>Wait for Process</name>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="1e22dc28-2f71-421b-9687-c367358919e3" type="Normal" published="True">

<name>Wait for Process Window</name>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="b6e051bf-8afe-4ea3-9ae0-52eee58eec76" type="Normal" published="True">

<name>Get User Name</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="c556a801-8bd8-4e0e-bf8e-2dd6b5642063" type="Normal" published="True">

<name>Get Machine Name</name>

<view>

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<zoom version="2">1.25</zoom>

</view>

</subsheet>

<stage stageid="5f046b4e-e1db-4786-ae90-3d5d6c6d9302" name="Start" type="Start">

<loginhibit/>

<narrative>

</narrative>

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<onsuccess>9e4646d0-d8c7-44d6-a5d9-9509e3ba8883</onsuccess>

</stage>

<stage stageid="9e4646d0-d8c7-44d6-a5d9-9509e3ba8883" name="End" type="End">

<loginhibit/>

<narrative>

</narrative>

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</stage>

<stage stageid="d9e9a8ad-308f-49f4-9dd0-9dafbc1f625a" name="Stage1" type="ProcessInfo">

<narrative>

</narrative>

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<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

<reference>system.windows.forms.dll</reference>

<reference>Microsoft.VisualBasic.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

<import>System.Windows.Forms</import>

<import>System.Diagnostics</import>

<import>System.Data</import>

<import>Microsoft.VisualBasic</import>

<import>System.Threading</import>

</imports>

<language>visualbasic</language>

<globalcode>

</globalcode>

<code>

</code>

</stage>

<stage stageid="6e5c9120-5c20-4fe2-9bfd-149470c9a1ea" name="Clean Up" type="SubSheetInfo">

<subsheetsid>a7ea3097-4e9b-48f3-9431-68977353a6bc</subsheetsid>

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</narrative>

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</stage>

<stage stageid="e36d7ef5-340c-4d1f-a670-d1f1dcd7bdc3" name="Start" type="Start">

<subsheetid>a7ea3097-4e9b-48f3-9431-68977353a6bc</subsheetid>

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<narrative>

</narrative>

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<displaywidth>60</displaywidth>

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<onsuccess>1451859f-91ff-4e0a-b8a8-7bbd6dc50341</onsuccess>

</stage>

<stage stageid="1451859f-91ff-4e0a-b8a8-7bbd6dc50341" name="End" type="End">

<subsheetid>a7ea3097-4e9b-48f3-9431-68977353a6bc</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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</stage>

<stage stageid="f50788a0-79a5-446b-b3cc-fc8d66091330" name="Get Screen Resolution" type="SubShe

<subsheetid>4987fdec-ac7a-4166-a60b-ade47ecdcc7</subsheetid>

<narrative>Gets the resolution of the screen in pixels for the current environment.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="d9e8deba-018e-4402-bb33-773a299ae864" name="Start" type="Start">

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<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

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<onsuccess>bd2d0918-9c73-4138-90b8-538eaa06f135</onsuccess>

</stage>

<stage stageid="3348aa7d-5b76-4d3f-a590-e571a9a83494" name="End" type="End">

<subsheetid>4987fdec-ac7a-4166-a60b-ade47ecdcc7</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="number" name="Horizontal Resolution" narrative="The number of pixels in the horizontal screen">

<output type="number" name="Vertical Resolution" narrative="The number of pixels in the vertical screen">

</outputs>

</stage>

<stage stageid="c970b361-339a-4e60-a056-cf8571553cb8" name="new" type="Note">

<subsheetsid>a7ea3097-4e9b-48f3-9431-68977353a6bc</subsheetsid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your business object is closed.

The cleanup action will be called automatically immediately after closing your business object at the end of the business process.

You will not be able to call this action from a business process, nor will it be called at any other time than by the system.

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="faf2adc8-9198-4483-b6dc-e67e978cbf7b" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business object is created.

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="bd2d0918-9c73-4138-90b8-538eaa06f135" name="GetResolution" type="Code">

<subsheetsid>4987fdec-ac7a-4166-a60b-ade47ecdcc7</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-15</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="number" name="Horizontal Resolution" stage="Horizontal Resolution"/>

<output type="number" name="Vertical Resolution" stage="Vertical Resolution"/>

</outputs>

<onsuccess>3348aa7d-5b76-4d3f-a590-e571a9a83494</onsuccess>

<code>dim S As Size = Screen.PrimaryScreen.Bounds.Size

Horizontal_Resolution = S.Width

Vertical_Resolution = S.Height</code>

```
</stage>

<stage stageid="37500b62-bdb6-42ed-91a3-02fbcffc75ee" name="Horizontal Resolution" type="Data">

<subsheetid>4987fdec-ac7a-4166-a60b-ade47ecdcc7</subsheetid>

<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="8edafede-371d-454f-a5ca-0b28eda542e5" name="Vertical Resolution" type="Data">

<subsheetid>4987fdec-ac7a-4166-a60b-ade47ecdcc7</subsheetid>

<narrative>

</narrative>

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<initialvalue/>

<private/>
```

```
<alwaysinit/>

</stage>

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<subsheetsid>e5864a25-e7a2-430a-9045-78a116e64701</subsheetsid>

<narrative>Force kills all processes with a given name.</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="e3791a92-d20e-4afe-81bf-5aab170c3aba" name="Start" type="Start">

<subsheetsid>e5864a25-e7a2-430a-9045-78a116e64701</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="All processes with the given name will be terminated."/>

</postconditions>

<narrative>

</narrative>

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```
<inputs>

<input type="text" name="Process Name" narrative="The name of the process to kill" stage="Process Nam

</inputs>

<onsuccess>697bc06f-0d64-430d-a5ea-b3fd02b746c8</onsuccess>

</stage>

<stage stageid="e9c6833a-30a3-4233-840b-35d605e44199" name="End" type="End">

<subsheetid>e5864a25-e7a2-430a-9045-78a116e64701</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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</stage>

<stage stageid="06a89dc2-9ed1-497c-b7f0-14664bdb76c5" name="Process Name" type="Data">

<subsheetid>e5864a25-e7a2-430a-9045-78a116e64701</subsheetid>

<narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="697bc06f-0d64-430d-a5ea-b3fd02b746c8" name="Kill Process1" type="Code">

<subsheetid>e5864a25-e7a2-430a-9045-78a116e64701</subsheetid>

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<narrative>

</narrative>

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<inputs>

<input type="text" name="Process Name" expr="[Process Name]"/>

</inputs>

<onsuccess>e9c6833a-30a3-4233-840b-35d605e44199</onsuccess>

<code> Try

for each p as System.Diagnostics.Process in System.Diagnostics.Process.GetProcessesByName(Process

p.kill

next

Catch ex As Exception

End Try</code>

</stage>

<stage stageid="374fc1ad-8b82-4d95-b3d4-9710692a2725" name="Read Memory Stats" type="SubSheet

<subsheetid>3d4412bd-579a-4d1e-937e-12fbb756630c</subsheetid>

<narrative>Get memory statistics for a given set of processes including the working set and the virtual mem

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</stage>

<stage stageid="237994c5-9c89-409f-9459-a9f1ce60d7ad" name="Start" type="Start">

<subsheetid>3d4412bd-579a-4d1e-937e-12fbb756630c</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative=""/>

</postconditions>

<narrative>

</narrative>

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<inputs>

<input type="collection" name="Process Names" narrative="The names of the processes to get memory st

</inputs>

<onsuccess>c64eaa40-85d5-42b9-bcfe-0e314328bccb</onsuccess>

</stage>

<stage stageid="83912618-be8e-4f5a-860a-03cc449519c4" name="End" type="End">

<subsHEETid>3d4412bd-579a-4d1e-937e-12fbb756630c</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

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<outputs>

<output type="collection" name="Process Statistics" narrative="A collection of process statistics including t

</outputs>

</stage>

<stage stageid="c64eaa40-85d5-42b9-bcfe-0e314328bccb" name="Get Stats" type="Code">

<subsHEETid>3d4412bd-579a-4d1e-937e-12fbb756630c</subsHEETid>

<loginhibit/>

<narrative>

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<inputs>

<input type="collection" name="Processes" expr="[Processes]"/>

</inputs>

<outputs>

<output type="collection" name="Process Statistics" stage="Process Statistics"/>

</outputs>

<onsuccess>83912618-be8e-4f5a-860a-03cc449519c4</onsuccess>

<code>GC.Collect()

Process_Statistics = New DataTable

process_statistics.Columns.Add("Process Name", GetType(String))

process_statistics.Columns.Add("PID", GetType(Decimal))

process_statistics.Columns.Add("Working Set", GetType(Decimal))

process_statistics.Columns.Add("Virtual Memory", GetType(Decimal))

For Each R As DataRow in Processes.Rows

dim ProcName As String = CStr(R("Process Name"))

Dim PID As Integer = CInt(R("PID"))

For Each P As Process in Process.GetProcesses()

If P.ProcessName = ProcName OrElse P.ID = PID Then

Process_Statistics.Rows.Add(New Object() {P.ProcessName, P.ID, P.WorkingSet64, P.VirtualMemorySize})

End If

Next

Next</code>

</stage>

<stage stageid="2d4e55c2-5e4d-45d5-8fd3-27d58de71615" name="Processes" type="Collection">

<subsheetid>3d4412bd-579a-4d1e-937e-12fbb756630c</subsheetid>

<narrative>

</narrative>

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<alwaysinit/>

<collectioninfo>

<field name="Process Name" type="text" namespace=""/>

<field name="PID" type="number" namespace=""/>

</collectioninfo>

<initialvalue>

<row>

<field name="Process Name" type="text" value="Automate"/>

<field name="PID" type="number" value="-1"/>

</row>

<row>

<field name="Process Name" type="text" value="javaw"/>

<field name="PID" type="number" value="-1"/>

</row>

</initialvalue>

</stage>

<stage stageid="99b25e8c-cd81-4e2f-99c3-d4c8afb738fc" name="Process Statistics" type="Collection">

<subsheetsid>3d4412bd-579a-4d1e-937e-12fbb756630c</subsheetsid>

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<datatype>collection</datatype>

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<alwaysinit/>

<collectioninfo>

<field name="Process Name" type="text" namespace=""/>

<field name="PID" type="number" namespace=""/>

<field name="Working Set" type="number" namespace=""/>

<field name="Virtual Memory" type="number" namespace=""/>

</collectioninfo>

</stage>

<stage stageid="f781848e-f409-4be9-aea7-4672e21e840e" name="Read Process Working Set" type="Sub

<subsheetid>7b5cc7aa-ca53-495f-a51e-4ed559efe88b</subsheetid>

<narrative>Gets the size of the working set for the given process.</narrative>

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</stage>

<stage stageid="41b78729-d533-460b-98af-6180066d831b" name="Start" type="Start">

<subsheetid>7b5cc7aa-ca53-495f-a51e-4ed559efe88b</subsheetid>

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<narrative>

</narrative>
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<inputs>

<input type="text" name="Process Name" narrative="The name of the process you want stats for" stage="P">

</inputs>

<onsuccess>92e54184-9c46-425a-a681-ca15d5f38671</onsuccess>

</stage>

<stage stageid="d9a48cd9-620d-4b45-87bb-cb1a223d729e" name="End" type="End">

<subsheetid>7b5cc7aa-ca53-495f-a51e-4ed559efe88b</subsheetid>

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<narrative>

</narrative>

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<outputs>

<output type="number" name="Working Set" narrative="The working set number holding memory stats for">

</outputs>

</stage>

<stage stageid="92e54184-9c46-425a-a681-ca15d5f38671" name="Get Memory Set" type="Code">

<subsheetid>7b5cc7aa-ca53-495f-a51e-4ed559efe88b</subsheetid>

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```

<narrative>Used += to return the total memory used by the application we are interested - just in case it is

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<inputs>

<input type="text" name="Proc" expr="[Process Name]"/>

</inputs>

<outputs>

<output type="number" name="Working Set" stage="Working Set"/>

</outputs>

<onsuccess>d9a48cd9-620d-4b45-87bb-cb1a223d729e</onsuccess>

<code>

For Each P As Process in Process.GetProcesses()

If P.ProcessName = Proc Then

Working_Set += P.WorkingSet64

End If

Next</code>

</stage>

<stage stageid="2db08314-74db-4968-8a01-2fffb03cc350" name="Process Name" type="Data">

<subsheetsid>7b5cc7aa-ca53-495f-a51e-4ed559efe88b</subsheetsid>

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</narrative>

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<stage stageid="192be4f9-084a-4c4d-99a1-67383bb9cf30" name="Working Set" type="Data">

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<narrative>

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<alwaysinit/>

</stage>

<stage stageid="fb42bad5-7a16-4ac1-8cc7-148cb8ad1d0f" name="Font Smoothing Enabled" type="SubS

<subsheetsid>72ac1b78-ac00-4ede-b5fa-13beef468814</subsheetsid>

<narrative>Gets the font smoothing setting for the current environment.</narrative>

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</stage>

<stage stageid="ad641c65-2bb5-4746-a61c-38a70a4e0b89" name="Start" type="Start">

<subsheetid>72ac1b78-ac00-4ede-b5fa-13beef468814</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative=""/>

</preconditions>

<narrative>

</narrative>

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<onsuccess>96f9fe29-f641-44ab-ab0e-a4091edaec4c</onsuccess>

</stage>

<stage stageid="9150eaee-22ec-4228-803e-123c888b87e5" name="End" type="End">

<subsheetid>72ac1b78-ac00-4ede-b5fa-13beef468814</subsheetid>

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<narrative>

</narrative>

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<outputs>

<output type="flag" name="Enabled" narrative="True if font smoothing is enabled" stage="Enabled?"/>

</outputs>

</stage>

<stage stageid="96f9fe29-f641-44ab-ab0e-a4091edaec4c" name="Get Font Smoothing Enabled" type="Co

<subsheetid>72ac1b78-ac00-4ede-b5fa-13beef468814</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<outputs>

<output type="flag" name="Enabled" stage="Enabled?"/>

</outputs>

<onsuccess>9150eaae-22ec-4228-803e-123c888b87e5</onsuccess>

<code>Enabled=System.Windows.Forms.Systeminformation.IsFontSmoothingEnabled</code>

</stage>

<stage stageid="d7db2bff-a394-483d-a249-bae03f688e95" name="Enabled?" type="Data">

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<narrative>

</narrative>

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</stage>

<stage stageid="80a2dcaa-31dd-419b-9fd4-a61249245b1b" name="Start Process" type="SubSheetInfo">

<subsheetsid>12ea7001-8ac4-4a2f-a00d-9b6e3a9583f7</subsheetsid>

<narrative>Starts a process directly with the given arguments.</narrative>

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<stage stageid="6d5177aa-21f6-4dac-b731-60fd85c76097" name="Start" type="Start">

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<narrative>

</narrative>

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<inputs>

<input type="text" name="Application" narrative="The application or short cut to start" stage="Application"/>

<input type="text" name="Arguments" narrative="Any arguments needed for the app" stage="Arguments"/>

</inputs>

<onsuccess>8fd5d005-95ec-43c3-acae-de13b914eb3e</onsuccess>

</stage>

<stage stageid="9c57d68b-5d25-4c88-8bb1-8f7c6aa327d3" name="End" type="End">

<subsheetid>12ea7001-8ac4-4a2f-a00d-9b6e3a9583f7</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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</stage>

<stage stageid="b3401dc5-5639-4e5d-b55a-b633330db327" name="Run Process Until Ended" type="Sub

<subsheetid>29015311-1659-438e-b7b6-b8ff65e4a840</subsheetid>

<narrative>Run a process and wait until completion or timeout.</narrative>

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</stage>

<stage stageid="f6878e25-301c-4540-a15d-7a83dfc57a75" name="End" type="End">

<subsHEETid>29015311-1659-438e-b7b6-b8ff65e4a840</subsHEETid>

<narrative>

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</stage>

<stage stageid="09ddad15-d793-4697-8f79-1a42247fb0ba" name="Note1" type="Note">

<subsHEETid>12ea7001-8ac4-4a2f-a00d-9b6e3a9583f7</subsHEETid>

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<narrative>Inputs</narrative>

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</stage>

<stage stageid="ca8b3a6e-c15d-4b6b-bf9f-96c0675d8e04" name="Application" type="Data">

<subsHEETid>12ea7001-8ac4-4a2f-a00d-9b6e3a9583f7</subsHEETid>

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<narrative>

</narrative>

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<stage stageid="9d495c29-e0f2-4bdd-ac85-b7875f7b1117" name="Arguments" type="Data">

<subsheetsid>12ea7001-8ac4-4a2f-a00d-9b6e3a9583f7</subsheetsid>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="8fd5d005-95ec-43c3-acae-de13b914eb3e" name="Start Process" type="Code">

<subsheetsid>12ea7001-8ac4-4a2f-a00d-9b6e3a9583f7</subsheetsid>

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<narrative>
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</narrative>

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<inputs>

<input type="text" name="Application" expr="[Application]"/>

<input type="text" name="Arguments" expr="[Arguments]"/>

</inputs>

<onsuccess>9c57d68b-5d25-4c88-8bb1-8f7c6aa327d3</onsuccess>

<code>If Arguments<<>" Then

System.Diagnostics.Process.Start(Application, Arguments)

Else

System.Diagnostics.Process.Start(Application)

End If</code>

</stage>

<stage stageid="085fdcca-3a7c-4a20-8b83-69add0889a54" name="Application" type="Data">

<subsheetsid>29015311-1659-438e-b7b6-b8ff65e4a840</subsheetsid>

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<stage stageid="e53a27fe-26fe-4503-ab86-8a5208e43d80" name="Arguments" type="Data">

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="0b84d4bb-deea-40c5-96eb-6adcf59fe7cf" name="Run Process" type="Code">

<subsheetid>29015311-1659-438e-b7b6-b8ff65e4a840</subsheetid>

<narrative>

</narrative>

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<inputs>

<input type="text" name="appn" expr="[Application]"/>

<input type="text" name="args" expr="[Arguments]"/>

<input type="text" name="dir" expr="[Working Folder]"/>

<input type="timespan" name="timeout" expr="[Timeout]"/>

</inputs>

<outputs>

<output type="flag" name="timedOut" stage="Fail Datetime Reached?"/>

</outputs>

<onsuccess>7fa022c9-fce8-496a-a40b-9119406000db</onsuccess>

<code>timedOut = False

Dim startTime as Date = Date.Now

Dim info as New ProcessStartInfo(appn)

If args <> "" Then info.Arguments = args

If dir <> "" Then info.WorkingDirectory = dir

Using proc As Process = Process.Start(info)

timedOut = Not proc.WaitForExit(_

CInt(timeout.TotalMilliseconds))

End Using</code>

</stage>

<stage stageid="f0792b52-0999-4f35-a46c-513fdcc3c381" name="Timeout" type="Data">

<subsheetid>29015311-1659-438e-b7b6-b8ff65e4a840</subsheetid>

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<datatype>timespan</datatype>

<initialvalue>0.00:00:10</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2adaf80c-c627-4556-8b6d-64929056128b" name="Start" type="Start">

<subsheetid>29015311-1659-438e-b7b6-b8ff65e4a840</subsheetid>

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<displaywidth>60</displaywidth>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Application" narrative="The application or shortcut to start" stage="Application"/>

<input type="text" name="Arguments" narrative="Optional - any arguments needed to run the application" stage="Arguments"/>

<input type="text" name="Working Folder" narrative="Optional - the application working folder" stage="Working Folder"/>

<input type="timespan" name="Timeout" narrative="How long to wait for the application to finish. Default is 10 minutes." stage="Timeout"/>

</inputs>

<onsuccess>0b84d4bb-deea-40c5-96eb-6adcf59fe7cf</onsuccess>

</stage>

<stage stageid="c91ac000-31f2-44b8-a481-a878929285ae" name="Fail Datetime Reached?" type="Data">
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<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="7fa022c9-fce8-496a-a40b-9119406000db" name="Timed Out?" type="Decision">

<subsheetid>29015311-1659-438e-b7b6-b8ff65e4a840</subsheetid>

<narrative>

</narrative>

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<decision expression="[Fail Datetime Reached?]">

<ontrue>433c4289-a312-4554-bc27-6ee3c7ace153</ontrue>

<onfalse>f6878e25-301c-4540-a15d-7a83dfc57a75</onfalse>

</stage>

<stage stageid="433c4289-a312-4554-bc27-6ee3c7ace153" name="System Exception" type="Exception">

<subsheetid>29015311-1659-438e-b7b6-b8ff65e4a840</subsheetid>

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</narrative>

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<exception type="System Exception" detail=""Application " &amp; [Application] &

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<stage stageid="bcd67ee-3c90-443c-9c4f-ec02fc8ee8d2" name="Wait for Process" type="SubSheetInfo".

<subsheetid>13c8f06e-8a7c-4da8-b813-d5738ce5369a</subsheetid>

<narrative>Attach to a process and wait for it to complete.</narrative>

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</stage>

<stage stageid="99a09b67-00bd-4e8a-bad7-2f589ac9de94" name="End" type="End">

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<outputs>

<output type="flag" name="Found?" narrative="True=process found, false=process not found" stage="Four">

</outputs>

</stage>

<stage stageid="0dcbb991-85d4-45bb-aaa9-a8bf5da36d15" name="Start" type="Start">

<subsheetid>13c8f06e-8a7c-4da8-b813-d5738ce5369a</subsheetid>

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<inputs>

<input type="number" name="Maximum wait time (seconds)" narrative="The maximum time to wait for the">

<input type="text" name="Process Name" narrative="The name of the process to attach to" stage="Process">

</inputs>

<onsuccess>dfe0f2dc-5806-4cf9-82f3-269f9b06b03f</onsuccess>

</stage>

<stage stageid="55ae0a29-1ee0-4fd1-b077-eeb2e6f1e9dd" name="End" type="End">

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<outputs>

<output type="flag" name="Found?" narrative="True=process found, false=process not found" stage="Four">

</outputs>

</stage>

<stage stageid="e1eea34b-f6e4-49b3-bcae-930f70caec29" name="Maximum wait time (seconds)" type="D">

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<inputs>

<input type="text" name="Process Name" expr="[Process Name]"/>

<input type="number" name="Max Wait" expr="[Maximum wait time (seconds)]"/>

</inputs>

<outputs>

<output type="flag" name="Found?" stage="Found?"/>

</outputs>

<onsuccess>55ae0a29-1ee0-4fd1-b077-eeb2e6f1e9dd</onsuccess>

<code> Try

Found_ = False

Dim bProcFound as Boolean = False

Dim iLoop as Integer = 0

Dim myProcesses() As System.Diagnostics.Process

Dim instance As System.Diagnostics.Process

Do While bProcFound = False AND iLoop < Max_Wait

myProcesses = System.Diagnostics.Process.GetProcessesByName(Process_Name)

For Each instance In myProcesses

bProcFound = True

Found_ = True

Next

Threading.Thread.Sleep(1000)

iloop += 1

Loop

Catch ex As Exception

End Try</code>

</stage>

<stage stageid="9344b166-5d5d-4b99-bc53-0c0331b8c776" name="Found?" type="Data">

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<stage stageid="8a02d7fb-31ed-4c83-92c9-9a9a7831920e" name="Process Name" type="Data">

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<initialvalue/>

<private/>

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</stage>

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<subsheetid>1e22dc28-2f71-421b-9687-c367358919e3</subsheetid>

<narrative>Waits for a process with a given name has displayed a window with the given title.</narrative>

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<displayy>-105</displayy>

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<stage stageid="19ea35dc-66b8-406e-9eca-4c6ef4d4e0ab" name="Start" type="Start">

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<inputs>

<input type="text" name="Process Name" narrative="The name of the process to attach to" stage="Proces


```
<input type="text" name="Window Title" narrative="The title of the window within the process" stage="Window Title"/>
<input type="number" name="Wait" narrative="The maximum amount of time to wait for" stage="Wait"/>
</inputs>
<onsuccess>d3b1986a-fa70-41e9-a8af-cd2ffc78342e</onsuccess>
</stage>
<stage stageid="b6fdc874-6a8d-405b-946e-10b6b47a6ae1" name="End" type="End">
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<outputs>
<output type="flag" name="Found" stage="Found"/>
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<stage stageid="d3b1986a-fa70-41e9-a8af-cd2ffc78342e" name="Find Process" type="Code">
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<inputs>

<input type="text" name="Process Name" expr="[Process Name]"/>

<input type="text" name="Window Title" expr="[Window Title]"/>

</inputs>

<outputs>

<output type="flag" name="Found" stage="Found"/>

</outputs>

<onsuccess>d0d526bd-c3dd-4eb6-bbe7-2d46cca6e06f</onsuccess>

<code>try

for each p as system.diagnostics.process in system.diagnostics.process.getprocessesbyname(process_na

if p.mainwindowtitle.trim.tolower like window_title.trim.tolower then

found = true

exit sub

end if

next

catch e as exception

end try</code>

</stage>

<stage stageid="6088ca18-1f7c-4db7-84af-ccecf1ced0f" name="Time Out2" type="WaitEnd">

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</stage>

<stage stageid="4498756a-e9e1-4bef-86e6-3b7ed91a7439" name="Wait" type="WaitStart">

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<groupid>d8f20257-87c3-4cf6-a20e-b44dbd21ce6a</groupid>

<choices/>

<timeout>0.5</timeout>

</stage>

<stage stageid="ba11e756-90e9-4cd7-a787-a41c2818e4b6" name="Count Down" type="Calculation">

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<calculation expression="[Wait]-0.5" stage="Wait"/>

</stage>

<stage stageid="a5225d0b-41b3-4ed2-9f7c-31461a1f262a" name="Wait?" type="Decision">

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<decision expression="[Wait]&gt;0"/>

<ontrue>ba11e756-90e9-4cd7-a787-a41c2818e4b6</ontrue>

<onfalse>ec831f1a-5b48-4bc2-8ceb-a362fa4e15d9</onfalse>

</stage>

<stage stageid="d0d526bd-c3dd-4eb6-bbe7-2d46cca6e06f" name="Found?" type="Decision">

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<decision expression="[Found]"/>

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<onfalse>a5225d0b-41b3-4ed2-9f7c-31461a1f262a</onfalse>

</stage>

<stage stageid="ec831f1a-5b48-4bc2-8ceb-a362fa4e15d9" name="anchor1" type="Anchor">

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</stage>

<stage stageid="7fc8557d-14e7-4b64-b495-23b8a7c76ef7" name="Get Clipboard" type="SubSheetInfo">

<subsheetid>cf31a66d-5534-4af0-9a07-433066d1a4b9</subsheetid>
```

<narrative>Gets the contents of the clipboard.</narrative>

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</stage>

<stage stageid="d1de3e23-13cc-4058-95cb-5d1b72e68cac" name="Start" type="Start">

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<narrative>

</narrative>

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<onsuccess>106d82b6-72c5-41b6-af2c-3ab3709a9c4e</onsuccess>

</stage>

<stage stageid="211e889c-ac33-46c2-8c6a-3d01c6f1ae4a" name="End" type="End">

<subsheetid>cf31a66d-5534-4af0-9a07-433066d1a4b9</subsheetid>

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<outputs>

<output type="text" name="Clipboard" narrative="The value from the clipboard." stage="Clipboard"/>

</outputs>

</stage>

<stage stageid="106d82b6-72c5-41b6-af2c-3ab3709a9c4e" name="Get" type="Calculation">

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<calculation expression="GetClipboard()" stage="Clipboard"/>

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<stage stageid="0634315f-c572-4cf9-8727-98308e50c2c2" name="Clipboard" type="Data">

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<narrative>

</narrative>

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<stage stageid="62bf25c7-7263-4fb3-bef2-20c9d9c2113d" name="Set Clipboard" type="SubSheetInfo">
<subsheetsid>cf9f6573-f06c-4ab6-9672-34d2e644415e</subsheetsid>
<narrative>Sets the contents of the clipboard.</narrative>
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</stage>
<stage stageid="57eca987-ec5e-485a-a03b-40c653f72a34" name="Start" type="Start">
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</narrative>
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<inputs>
<input type="text" name="Clipboard" narrative="The value to set the clipboard to." stage="Clipboard"/>
```

```
</inputs>

<onsuccess>54826c34-2991-4964-b0a3-0e0a2f951f29</onsuccess>

</stage>

<stage stageid="d2b91dd7-f7a4-45e5-8b5c-8f867e6be05c" name="End" type="End">

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</narrative>

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</stage>

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<loginhibit/>

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<inputs>

<input type="text" name="Clipboard" expr="[Clipboard]"/>

</inputs>
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<onsuccess>d2b91dd7-f7a4-45e5-8b5c-8f867e6be05c</onsuccess>

<code>System.Windows.Forms.Clipboard.SetDataObject(Clipboard)</code>

</stage>

<stage stageid="121f76bc-6b69-43a4-9484-16729e37267b" name="Clipboard" type="Data">

<subsheetid>cf9f6573-f06c-4ab6-9672-34d2e644415e</subsheetid>

<narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="b8fa4afe-4c2c-409d-9691-e213b773c434" name="Clear Clipboard" type="SubSheetInfo">

<subsheetid>50ea2955-c157-4803-b16c-fea2255ce9e2</subsheetid>

<narrative>Clears the clipboard contents.</narrative>

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</stage>

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<subsheetid>50ea2955-c157-4803-b16c-fea2255ce9e2</subsheetid>

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<narrative>

</narrative>

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<onsuccess>d1113981-40f5-450a-8b7e-e059eed37e76</onsuccess>

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</stage>

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</narrative>

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<inputs>

<input type="text" name="Clipboard" expr="&quot;&quot;"/>

</inputs>

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<processid>cf9f6573-f06c-4ab6-9672-34d2e644415e</processid>

</stage>

<stage stageid="15c6de75-886d-492c-8c12-5f0de483e1f7" name="Get User Name" type="SubSheetInfo">

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<onsuccess>c731c906-58b6-4969-bd70-b7ecd7fa47ae</onsuccess>

</stage>

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<outputs>

<output type="text" name="User Name" narrative="The name of the logged in user in the current system" s

</outputs>

</stage>

<stage stageid="c731c906-58b6-4969-bd70-b7ecd7fa47ae" name="GetUserName" type="Code">

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<outputs>

<output type="text" name="username" stage="Username"/>

</outputs>

<onsuccess>ddc4be1a-94ee-4487-b6dc-0f12e4fc40ae</onsuccess>

<code>

username = Environment.UserName</code>

</stage>

<stage stageid="b3608be8-eeaa-4984-891b-4d8c705ac7f4" name="Username" type="Data">

<subsheetid>b6e051bf-8afe-4ea3-9ae0-52eee58eec76</subsheetid>

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<stage stageid="b47157dd-5fca-4b0b-989b-b23a03641f3f" name="Get Machine Name" type="SubSheetIn

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</stage>

<stage stageid="a69b53e7-8e67-4383-9b6f-28c57c9a82eb" name="End" type="End">

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<outputs>

<output type="text" name="Machine Name" narrative="The hostname of the machine running this action" s

</outputs>

</stage>

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<outputs>

<output type="text" name="machineName" stage="Machine Name"/>

</outputs>

<onsuccess>a69b53e7-8e67-4383-9b6f-28c57c9a82eb</onsuccess>

<code>

machineName = Environment.MachineName</code>

</stage>

<stage stageid="e3b5bdc7-5646-4f63-b78b-c9824a496d2f" name="Machine Name" type="Data">

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<alwaysinit/>

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<stage stageid="dc49d63c-0e29-422f-b99c-4689f5b5afd1" name="Input Args" type="Block">

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<stage stageid="fe09088f-160d-4f5e-af9d-a2cf44a91d21" name="Start Process Read Stderr and Stdout" type="Block">

<subsheetsid>80ee143b-0379-4ba5-b13f-5d42dde3160d</subsheetsid>

<narrative>Starts a process directly with the given arguments, reads the standard output and standard error

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<stage stageid="56b0bbbe-2836-41b5-8ccf-30fa098e975f" name="Start" type="Start">

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<inputs>

<input type="text" name="Arguments" narrative="The arguments that coincide with the process." stage="A

<input type="text" name="Process Name" narrative="The name of the process to start." stage="Process N

</inputs>

<onsuccess>d8552129-84eb-4d65-8bee-d06820fb6e5f</onsuccess>

</stage>

<stage stageid="e9699401-5328-4e3b-ad11-bd29880236e4" name="End" type="End">

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<outputs>

<output type="text" name="Standard Output" stage="Standard Output"/>

<output type="text" name="Standard Error" stage="Standard Error"/>

</outputs>

</stage>

<stage stageid="1a31c8d4-725e-4b41-8b64-72ff5feccd2f" name="Arguments" type="Data">

<subsheetid>80ee143b-0379-4ba5-b13f-5d42dde3160d</subsheetid>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="d8552129-84eb-4d65-8bee-d06820fb6e5f" name="Run Process read Output" type="Code">

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<inputs>

<input type="text" name="Argument" expr="[Arguments]"/>

<input type="text" name="Process Name" expr="[Process Name]"/>

</inputs>

<outputs>

<output type="text" name="Standard Output" stage="Standard Output"/>

<output type="text" name="Standard Error" stage="Standard Error"/>

</outputs>

<onsuccess>e9699401-5328-4e3b-ad11-bd29880236e4</onsuccess>

<code>Dim processName As String = Process_Name

Dim process As New Process() With {

.StartInfo = New ProcessStartInfo() With {

.FileName = processName,

.Arguments = Argument,

.UseShellExecute = False,

.CreateNoWindow = True,

.RedirectStandardError = True,

.RedirectStandardOutput = True

}

}

process.Start()

' Read the standard out and standard error async
' to avoid any EOF blocking while the process
' waits to exit.

Dim standardOutput = process.StandardOutput.ReadToEndAsync()

Dim standardError = process.StandardError.ReadToEndAsync()

process.WaitForExit()

If standardOutput.isCompleted Then Standard_Output = standardOutput.Result

If standardError.isCompleted Then Standard_Error = standardError.Result</code>

</stage>

<stage stageid="458272d5-fe32-4588-9ef3-7af2fbacdf25" name="Standard Output" type="Data">

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<stage stageid="a63c7a4b-9add-4e2e-8f28-e8886b11dee1" name="Standard Error" type="Data">

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</stage>

</process>

<process name="Utility - File Management" version="6.7.0.0" narrative="Utility methods for interacting with

<appdef>

<element name="Application Root">

<id>b30f5d67-5c3c-49c9-8f9b-66d573097498</id>

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<type>Application</type>

<basetype>Application</basetype>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

</appdef>

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<endpoint narrative=""/>

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<name>Clean Up</name>

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<name>Configure</name>

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<name>Raise Exception If Appropriate</name>

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<name>Download File</name>

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<name>Get Files</name>

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<name>Get Folders</name>

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<name>File Exists</name>

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<name>Directory Exists</name>

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<name>Create Directory</name>

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<name>Delete Directory</name>

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<name>Sub Directory Exists</name>

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<name>Split Path</name>

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<name>Combine Path</name>

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<name>Copy File</name>

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<name>Move File</name>

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<name>Get File Size</name>

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<name>Append to Text File</name>

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<name>Read All Text from File</name>

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<name>Read Lines From File</name>

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<name>Write Text File</name>

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<name>Write Binary Data</name>

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<name>Get CSV Text As Collection</name>

<view>

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<name>Get Special Folder Path</name>

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<references>
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<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

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<import>System</import>

<import>System.Drawing</import>

<import>System.Data</import>

<import>System.IO</import>

<import>System.XML</import>

<import>System.Diagnostics</import>

<import>Microsoft.VisualBasic</import>

<import>System.Data</import>

<import>system.text.regularexpressions</import>

<import>System.Data.OleDb</import>

</imports>

<language>visualbasic</language>

<globalcode>

</globalcode>

<code>Public Function GetDataTable(ByVal ColumnNamesCSV As String, ByVal ColumnTypesCSV As S

Dim objTable As DataTable

Dim objColumn As DataColumn

Dim aColumnNames As String() = ColumnNamesCSV.Split(",")

Dim aColumnTypes As String() = ColumnTypesCSV.Split(",")

Try

```

objTable = New DataTable

For i As Integer = 0 To aColumnNames.Length - 1

    objColumn = New DataColumn

    objColumn.DataType = System.Type.GetType(aColumnTypes(i).Trim)

    If objColumn.DataType = GetType(DateTime) Then

        objColumn.DateTimeMode = DataSetDateTime.Utc

    End If

    objColumn.ColumnName = aColumnNames(i).Trim

    objTable.Columns.Add(objColumn)

Next

Catch e As Exception

    objTable = nothing

End Try

Return objTable

End Function

```

</code>

</stage>

<stage stageid="0bf7814a-647b-4bcb-b6a6-3d24dfd5b736" name="Clean Up" type="SubSheetInfo">

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</stage>

<stage stageid="0c56e2f8-68ce-48a3-97ad-81e1f076e9ce" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business object is loaded.

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a page load.

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="07048754-58c7-4201-9869-e206f1d6c32a" name="Get Files" type="SubSheetInfo">

<subsheetsid>3a12dbad-57fd-45a4-b859-62df514a34d3</subsheetsid>

<narrative>Gets all files in the specified folder matching the supplied file type pattern string.

Patterns - A comma-separated list of file patterns identifying the type(s) of files sought. Eg "*.jpg, *.png" returns all jpg and png files.

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>60</displayheight>

</stage>

<stage stageid="8448350e-b6a9-4a15-a3d0-501c4967c0f9" name="Start" type="Start">

<subsheetid>3a12dbad-57fd-45a4-b859-62df514a34d3</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="All matching files will be returned."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Folder" narrative="The folder in which to look for files" stage="Folder"/>

<input type="text" name="Patterns CSV" narrative="The comma seperated list of wildcard patterns" stage="Patterns CSV"/>

</inputs>

<onsuccess>acbbbddf-8b42-4353-8b0a-83eaeb216a63</onsuccess>

</stage>

<stage stageid="acbbbddf-8b42-4353-8b0a-83eaeb216a63" name="Get Files" type="Code">

<subsheetid>3a12dbad-57fd-45a4-b859-62df514a34d3</subsheetid>

<loginhibit/>

```

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Folder" expr="[Folder]"/>

<input type="text" name="Patterns CSV" expr="[Patterns CSV]"/>

</inputs>

<outputs>

<output type="collection" name="Files" stage="Files"/>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>9cdf0f78-05d1-44d4-80a0-9f78ca0b22ae</onsuccess>

<code>

Dim objTable As DataTable

Dim objRow As DataRow

Dim aFiles As FileInfo()

Dim aPatterns As String()

Dim oDirectory As New DirectoryInfo(Folder)

Try

'Create a data table to output as a collection

```



```
objTable = GetDataTable( _  
    "Path," _  
    &amp; "Folder," _  
    &amp; "Name," _  
    &amp; "Extension," _  
    &amp; "Created," _  
    &amp; "Last Accessed," _  
    &amp; "Last Written," _  
    &amp; "Read Only," _  
    &amp; "Bytes", _  
    "System.String," _  
    &amp; "System.String," _  
    &amp; "System.String," _  
    &amp; "System.String," _  
    &amp; "System.DateTime," _  
    &amp; "System.DateTime," _  
    &amp; "System.DateTime," _  
    &amp; "System.Boolean," _  
    &amp; "System.Double")
```

```
Patterns_CSV = Patterns_CSV.replace("\",", "?")
```

```
aPatterns = Patterns_CSV.split(",")
```

```
For each sPattern As String in aPatterns
```

```
    sPattern = sPattern.replace("?", ",")
```

```
    aFiles = oDirectory.GetFiles(sPattern.Trim)
```

```
For each oFile as FileInfo in aFiles
```

```
objRow = objTable.NewRow()

objRow("Path") = oFile.FullName

objRow("Folder") = oFile.DirectoryName

objRow("Name") = oFile.Name

objRow("Extension") = oFile.Extension

objRow("Created") = oFile.CreationTimeUtc

objRow("Last Accessed") = oFile.LastAccessTimeUtc

objRow("Last Written") = oFile.LastWriteTimeUtc

objRow("Read Only") = oFile.IsReadOnly

objRow("Bytes") = oFile.Length
```

```
objTable.Rows.Add(objRow)
```

Next

Next

```
objTable = objTable.DefaultView.ToTable(True, _

"Path", _

"Folder", _

"Name", _

"Extension", _

"Created", _

"Last Accessed", _

"Last Written", _

"Read Only", _

"Bytes")
```

```
Files = objTable
```

Success = True

Message = ""

Catch e As Exception

Success = False

Message = e.Message

End Try</code>

</stage>

<stage stageid="913867cd-7535-4857-b6b9-1b1ead2bc67f" name="Folder" type="Data">

<subsheetid>3a12dbad-57fd-45a4-b859-62df514a34d3</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue xml:space="preserve">C:\temp</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="624240c2-02c8-48c3-9040-e9388fddf1b1" name="Patterns CSV" type="Data">

<subsheetid>3a12dbad-57fd-45a4-b859-62df514a34d3</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>15</displayy>

```
<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue xml:space="preserve">*.jpg</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="95f234d2-8c1a-466c-b8a6-fb7dc34de936" name="Files" type="Collection">

<subsheetsid>3a12dbad-57fd-45a4-b859-62df514a34d3</subsheetsid>

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="3764ae17-85d7-4ebb-99b5-502b95d7abd6" name="End" type="End">

<subsheetsid>3a12dbad-57fd-45a4-b859-62df514a34d3</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>
```

<display>30</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Message" narrative="A message if unsuccessful" stage="Message"/>

<output type="collection" name="Files" narrative="The collection of files found" stage="Files"/>

</outputs>

</stage>

<stage stageid="8e80cc1d-27ed-43d9-985e-90d828191fb7" name="Success" type="Data">

<subsheetid>3a12dbad-57fd-45a4-b859-62df514a34d3</subsheetid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="950111b1-7b05-4076-a673-b07166b76cdb" name="Message" type="Data">

<subsheetid>3a12dbad-57fd-45a4-b859-62df514a34d3</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>165</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="32964141-871e-474a-a1f8-eea0b10c5df2" name="Delete Files" type="SubSheetInfo">

<subsheetsid>ed509af2-4b4a-447d-8196-18105ed12739</subsheetsid>

<narrative>Deletes all files in the specified folder, matching the supplied file extension pattern.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="82b919fe-64b2-4c2b-8173-5706f671c5ce" name="End" type="End">

<subsheetsid>ed509af2-4b4a-447d-8196-18105ed12739</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>0</displayy>

```
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<displayheight>30</displayheight>

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</stage>

<stage stageid="ea337dc4-4fd9-4d31-8cc6-23da41cd5665" name="Start" type="Start">

<subsheetid>ed509af2-4b4a-447d-8196-18105ed12739</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="The named folder must exist."/>

</preconditions>

<postconditions>

<condition narrative="All files within the named folder which match the supplied pattern will have been dele

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Folder" narrative="The path from which to delete the files" stage="Folder"/>

<input type="text" name="Pattern" narrative="The wildcard pattern of files to delete" stage="Pattern"/>

</inputs>

<onsuccess>202c81a6-fd90-46ed-9eee-73c24863b69b</onsuccess>

</stage>

<stage stageid="202c81a6-fd90-46ed-9eee-73c24863b69b" name="Delete Files" type="Code">
```

<subsheetid>ed509af2-4b4a-447d-8196-18105ed12739</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Folder" expr="[Folder]"/>

<input type="text" name="Pattern" expr="[Pattern]"/>

</inputs>

<outputs>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>d0021635-222d-46f1-93ad-a7435640cf9f</onsuccess>

<code>Dim aFiles As String()

Try

aFiles = Directory.GetFiles(Folder, Pattern)

For each f as String in aFiles

File.Delete(f)

Next

Success = True

Message = ""

Catch e As Exception

Success = False

Message = e.Message

End Try

</code>

</stage>

<stage stageid="119002ff-ee61-4f32-b096-f3953ad107e1" name="Folder" type="Data">

<subsheetsid>ed509af2-4b4a-447d-8196-18105ed12739</subsheetsid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue xml:space="preserve">C:\temp\Blue Prism</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="121b4fd7-a9da-4498-a8d5-6a0ab2dae758" name="Pattern" type="Data">

<subsheetsid>ed509af2-4b4a-447d-8196-18105ed12739</subsheetsid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue xml:space="preserve">*.TIF</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="623ad5b5-f965-4f97-9d46-435717e70b25" name="Success" type="Data">

<subsheetsid>ed509af2-4b4a-447d-8196-18105ed12739</subsheetsid>

<narrative>

</narrative>

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<displayy>60</displayy>

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<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="77c8238b-c415-496f-87c3-50033ec4d2a5" name="Message" type="Data">

<subsheetsid>ed509af2-4b4a-447d-8196-18105ed12739</subsheetsid>

<narrative>

```
</narrative>

<displayx>-195</displayx>

<displayy>90</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="7891b89f-2307-4444-8b6e-17e25e53501f" name="Append to Text File" type="SubSheet">

<subsheetsid>d2530b0d-5530-4692-8a60-1f91d1c5a9c9</subsheetsid>

<narrative>Appends some text to the specified file.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="83010bd2-019e-4b04-af0b-b401efe8d128" name="Start" type="Start">

<subsheetsid>d2530b0d-5530-4692-8a60-1f91d1c5a9c9</subsheetsid>

<loginhibit/>

<preconditions>

<condition narrative="There must be sufficient disk space to accommodate the new data. The destination f

</preconditions>

<postconditions>
```

```
<condition narrative="The supplied text will have been appended."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="File Name" narrative="The full path of the text file to append to" stage="File Name" />

<input type="text" name="Text" narrative="The text to append to the file" stage="Text"/>

</inputs>

<onsuccess>eeb7f0eb-73fc-4849-96a9-35f410bbde67</onsuccess>

</stage>

<stage stageid="39862014-df78-414b-9ccd-5c0d392aa282" name="End" type="End">

<subsheetid>d2530b0d-5530-4692-8a60-1f91d1c5a9c9</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>
```

```
<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Message"/>

</outputs>

</stage>

<stage stageid="f9d3e8a1-7f67-4991-b9f1-e8ec160de075" name="Success" type="Data">

<subsheetsid>d2530b0d-5530-4692-8a60-1f91d1c5a9c9</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-195</displayx>

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<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2ef09390-e450-4d10-a32b-4448a65b0aaf" name="Message" type="Data">

<subsheetsid>d2530b0d-5530-4692-8a60-1f91d1c5a9c9</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>75</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>
```


<datatype>text</datatype>
<initialvalue/>
<private/>
<alwaysinit/>
</stage>
<stage stageid="4e77fcf2-8d12-4f3b-acf3-e15dccb8e90a" name="Text" type="Data">
<subsheetsid>d2530b0d-5530-4692-8a60-1f91d1c5a9c9</subsheetsid>
<narrative>
</narrative>
<displayx>-195</displayx>
<displayy>0</displayy>
<displaywidth>90</displaywidth>
<displayheight>30</displayheight>

<datatype>text</datatype>
<initialvalue/>
<private/>
<alwaysinit/>
</stage>
<stage stageid="f599b6ac-5574-438b-8617-8821d9800cf7" name="File Name" type="Data">
<subsheetsid>d2530b0d-5530-4692-8a60-1f91d1c5a9c9</subsheetsid>
<narrative>
</narrative>
<displayx>-195</displayx>
<displayy>-30</displayy>
<displaywidth>90</displaywidth>

```
<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="eeb7f0eb-73fc-4849-96a9-35f410bbde67" name="Append" type="Code">

<subsheetid>d2530b0d-5530-4692-8a60-1f91d1c5a9c9</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="File Name" expr="[File Name]"/>

<input type="text" name="Text" expr="[Text]"/>

</inputs>

<outputs>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>1e441202-3878-4eb6-b156-6f517be6de00</onsuccess>

<code>Try
```

```
Dim sw As StreamWriter
```

```
If File.Exists(File_Name) = False Then
```

```
sw = File.CreateText(File_Name)
```

```
Else
```

```
sw = File.AppendText(File_Name)
```

```
End If
```

```
sw.WriteLine(Text)
```

```
sw.Flush()
```

```
sw.Close()
```

```
Success = True
```

```
Message = ""
```

```
Catch e As Exception
```

```
Success = False
```

```
Message = e.Message
```

```
End Try</code>
```

```
</stage>
```

```
<stage stageid="6428e7b4-8ed6-4930-bc8f-636cc71e955a" name="Read All Text from File" type="SubSh
```

```
<subsheetsid>8eb61369-ddab-4205-9a55-81054c2e4afb</subsheetsid>
```

```
<narrative>Reads the entire contents of a file as text.</narrative>
```

```
<displayx>-195</displayx>
```

```
<displayy>-105</displayy>
```

```
<displaywidth>150</displaywidth>
```

```
<displayheight>90</displayheight>
```


</stage>

<stage stageid="a783ee6f-6425-4420-9b9f-759c781f3544" name="Start" type="Start">

<subsheetid>8eb61369-ddab-4205-9a55-81054c2e4afb</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="The file must exist."/>

</preconditions>

<postconditions>

<condition narrative="The full text of the file will be read."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="File Name" narrative="The full path the file to read the text from" stage="File Name">

</inputs>

<onsuccess>8107f164-7ef3-4164-8a2c-500055c7b374</onsuccess>

</stage>

<stage stageid="0a76495e-bc0d-4cea-bae0-85da1e15c74f" name="End" type="End">

<subsheetid>8eb61369-ddab-4205-9a55-81054c2e4afb</subsheetid>

<loginhibit/>

<narrative>

```
</narrative>

<displayx>15</displayx>

<displayy>30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Message"/>

<output type="text" name="Text" narrative="The text of the file" stage="Text"/>

</outputs>

</stage>

<stage stageid="995662eb-baf3-436e-a2c1-2cc3ccfcf8fb" name="Success" type="Data">

<subsheetid>8eb61369-ddab-4205-9a55-81054c2e4afb</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-195</displayx>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>
```

<stage stageid="ee454760-e4c3-44cc-b071-30cdafbe8355" name="Message" type="Data">

<subsheetid>8eb61369-ddab-4205-9a55-81054c2e4afb</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>75</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2dbbbe6e-0b94-4d90-940a-c99f9671b774" name="Text" type="Data">

<subsheetid>8eb61369-ddab-4205-9a55-81054c2e4afb</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>0</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

```
<alwaysinit/>

</stage>

<stage stageid="265e14ba-8649-477d-9d21-092a9bc9ad2d" name="File Name" type="Data">

<subsheetid>8eb61369-ddab-4205-9a55-81054c2e4afb</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="8107f164-7ef3-4164-8a2c-500055c7b374" name="Read Text" type="Code">

<subsheetid>8eb61369-ddab-4205-9a55-81054c2e4afb</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>
```

<input type="text" name="File Name" expr="[File Name]"/>

</inputs>

<outputs>

<output type="text" name="Text" stage="Text"/>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>7419fb71-5c79-4fb6-9e59-b9fbc1d63e45</onsuccess>

<code>Try

If File.Exists(File_Name) Then

Dim sr As New StreamReader(File_Name)

Text = sr.ReadToEnd

sr.Close()

Success = True

Message = ""

Else

Throw New ApplicationException("The file at " & File_Name & " does not exist")

End If

Catch e As Exception

Success = False

Message = e.Message

End Try</code>

</stage>

<stage stageid="a3f9a500-e2f0-4f48-9bb2-38ad1a4592b9" name="Write Text File" type="SubSheetInfo">

<subsheetid>602b7aad-2626-40ba-8c4b-1ec926ae9098</subsheetid>

<narrative>Writes text to a file. Any existing text in the file (if it exists) will be replaced.</narrative>

<displayx>-195</displayx>

```
<display>-105</display>

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<displayheight>90</displayheight>

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</stage>

<stage stageid="3f408f78-c150-49f6-9f52-a3fb59ce307e" name="Start" type="Start">

<subsheetid>602b7aad-2626-40ba-8c4b-1ec926ae9098</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="There must be sufficient disk space to accommodate the new data."/>

</preconditions>

<postconditions>

<condition narrative="The supplied text will have been written to the destination file."/>

</postconditions>

<narrative>

</narrative>

<displayx>-30</displayx>

<display>-135</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="File Name" narrative="The full path to the file to write the text to" stage="File Name" />

<input type="text" name="Text" narrative="The text to write to the file" stage="Text"/>

</inputs>

<onsuccess>7d5efe35-64fc-48a0-b5a7-a5b787e90578</onsuccess>

</stage>
```

```
<stage stageid="1aab3a10-a813-470b-97c8-57938a0d0024" name="End" type="End">

<subsheetid>602b7aad-2626-40ba-8c4b-1ec926ae9098</subsheetid>

<loginhibit/>

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<displayheight>30</displayheight>

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<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Message"/>

</outputs>

</stage>

<stage stageid="e85add3f-f65a-47dd-8be7-5ee764878dee" name="Success" type="Data">

<subsheetid>602b7aad-2626-40ba-8c4b-1ec926ae9098</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

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<datatype>flag</datatype>

<initialvalue>False</initialvalue>
```

<private/>

<alwaysinit/>

</stage>

<stage stageid="3ba21666-440e-40ea-80e4-bb02ff535775" name="Message" type="Data">

<subsheetsid>602b7aad-2626-40ba-8c4b-1ec926ae9098</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<datatype>text</datatype>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="951ed278-f157-450e-90d0-06cc330e358c" name="Text" type="Data">

<subsheetsid>602b7aad-2626-40ba-8c4b-1ec926ae9098</subsheetsid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="20ca70ee-ce56-4594-90ca-a03ba1934f47" name="File Name" type="Data">

<subsheetid>602b7aad-2626-40ba-8c4b-1ec926ae9098</subsheetid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="7d5efe35-64fc-48a0-b5a7-a5b787e90578" name="Write" type="Code">

<subsheetid>602b7aad-2626-40ba-8c4b-1ec926ae9098</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<inputs>

<input type="text" name="File Name" expr="[File Name]"/>

<input type="text" name="Text" expr="[Text]"/>

</inputs>

<outputs>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>9219c3c4-effd-4dfc-9020-8dafd054ea8f</onsuccess>

<code>Try

File.WriteAllText(File_Name, Text)

Success = True

Message = ""

Catch e As Exception

Success = False

Message = e.Message

End Try</code>

</stage>

<stage stageid="7dfd4754-e49a-447b-b9c3-c36266dfa2e8" name="File Exists" type="SubSheetInfo">

<subsheetsid>60b8a01d-1f74-4169-b192-5e363a7b5e61</subsheetsid>

<narrative>Determines whether the specified file exists. The full path must be specified.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="da1de8a5-b06c-4fc0-b316-2fec1a802056" name="End" type="End">

<subsheetid>60b8a01d-1f74-4169-b192-5e363a7b5e61</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-60</displayx>

<displayy>-45</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Exists" narrative="True if the file exists" stage="Exists"/>

</outputs>

</stage>

<stage stageid="6b0d4683-2748-485e-88ed-cdf57c76992d" name="Start" type="Start">

<subsheetid>60b8a01d-1f74-4169-b192-5e363a7b5e61</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The existence of the file of interest will have been determined."/>

</postconditions>

<narrative>

</narrative>

<displayx>-60</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="File Name" narrative="The name of the file to check" stage="File Name"/>

</inputs>

<onsuccess>7cc66b68-5ab8-4f99-95fa-fde9dbfa38ed</onsuccess>

</stage>

<stage stageid="f92a43a8-74e6-4f49-bf65-dc7663017f2b" name="File Name" type="Data">

<subsheetsid>60b8a01d-1f74-4169-b192-5e363a7b5e61</subsheetsid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="7cc66b68-5ab8-4f99-95fa-fde9dbfa38ed" name="File Exists" type="Code">

<subsheetsid>60b8a01d-1f74-4169-b192-5e363a7b5e61</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-60</displayx>

<displayy>-90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="File Name" expr="[File Name]"/>

</inputs>

<outputs>

<output type="flag" name="Exists" stage="Exists"/>

</outputs>

<onsuccess>da1de8a5-b06c-4fc0-b316-2fec1a802056</onsuccess>

<code>Try

Exists = File.Exists(File_Name)

Catch

Exists = False

End Try</code>

</stage>

<stage stageid="817167f9-bb73-4622-9254-e249dff5369f" name="Exists" type="Data">

<subsheetsid>60b8a01d-1f74-4169-b192-5e363a7b5e61</subsheetsid>

<narrative>

</narrative>

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<displaywidth>150</displaywidth>

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<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2271a79e-27e5-4434-b5be-146e02946317" name="new" type="Note">

<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>

<narrative>Clean Up Page
```

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

```
<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="c50578e4-df15-4b21-8a4c-469dae40724d" name="Copy File" type="SubSheetInfo">

<subsheetid>e9dd304c-7d26-40f5-b193-eef36f0a370c</subsheetid>

<narrative>Copies a file to the named destination.</narrative>

<displayx>-195</displayx>

<displayy>-135</displayy>
```

```
<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="30f8df38-bbc1-4b94-916b-ce06a40b630c" name="Start" type="Start">

<subsheetid>e9dd304c-7d26-40f5-b193-eef36f0a370c</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="The file to be copied must exist. The full destination path must be specified. There m

</preconditions>

<postconditions>

<condition narrative="The file will have been copied to the specified destination."/>

<condition narrative=""/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="File Path" narrative="The full path to the file to be copied" stage="File Path"/>

<input type="text" name="Destination Path" narrative="The path of the directory to copy the file to" stage="

</inputs>

<onsuccess>8de7d816-2984-4b8f-a1f0-dfdf25b3f108</onsuccess>

</stage>
```

<stage stageid="53e1058f-89a5-4172-b9b5-89530de8ef51" name="Success" type="Data">

<subsheetid>e9dd304c-7d26-40f5-b193-eef36f0a370c</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-195</displayx>

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<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="471fd171-54c1-4c9b-aa1d-6f471b939942" name="Message" type="Data">

<subsheetid>e9dd304c-7d26-40f5-b193-eef36f0a370c</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-195</displayx>

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<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>


```

<private/>

<alwaysinit/>

</stage>

<stage stageid="8de7d816-2984-4b8f-a1f0-dfdf25b3f108" name="Copy" type="Code">

<subsheetsid>e9dd304c-7d26-40f5-b193-eef36f0a370c</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="File Path" expr="[File Path]"/>

<input type="text" name="Destination" expr="[Destination Path]"/>

</inputs>

<outputs>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>acf72cc7-cf73-466f-8c22-9fb633ed3c24</onsuccess>

<code>Try

```

```

Dim sSourceFolder As String = Mid(File_Path, 1, File_Path.LastIndexOf("\") + 1)

```

```

Dim sSourceFileName As String = Mid(File_Path, File_Path.LastIndexOf("\") + 2)

```

Dim sDestinationFolder As String

Dim sDestinationFile As String

If Directory.Exists(Destination) Then

sDestinationFolder = Destination

If Not sDestinationFolder.EndsWith("\") Then

sDestinationFolder & amp; amp;= "\"

End If

sDestinationFile = ""

Else

sDestinationFolder = ""

sDestinationFile = Destination

End If

Dim objDirectoryInfo As DirectoryInfo = New DirectoryInfo(sSourceFolder)

Dim aFiles As FileInfo() = objDirectoryInfo.GetFiles(sSourceFileName)

If aFiles Is Nothing OrElse aFiles.Length <= 0 Then

Success = False

Message = "No files found"

Return

End If

For Each oFile As FileInfo In aFiles

If sDestinationFolder = "" Then

oFile.CopyTo(sDestinationFile, True)

Else

oFile.CopyTo(sDestinationFolder & amp; amp; oFile.Name, True)

End If

Next

Success = True

Message = ""

Catch e As Exception

Success = False

Message = e.Message

End Try</code>

</stage>

<stage stageid="f12e4bba-1185-469f-aea9-0b8954cbcd77" name="File Path" type="Data">

<subsheetid>e9dd304c-7d26-40f5-b193-eef36f0a370c</subsheetid>

<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="30982d9d-8e54-4d64-af7e-2a7df861c94f" name="Destination Path" type="Data">

<subsheetid>e9dd304c-7d26-40f5-b193-eef36f0a370c</subsheetid>

<narrative>

```
</narrative>

<displayx>-195</displayx>

<displayy>0</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="6d608807-5c80-49f5-a177-05a15f6d0ff7" name="Get File Size" type="SubSheetInfo">

<subsheetsid>7ca00106-fe4e-46c0-bffc-0dda1561434f</subsheetsid>

<narrative>Gets the size of the specified file.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="d07f9435-79c9-4cd5-b803-1cde78f5262c" name="End" type="End">

<subsheetsid>7ca00106-fe4e-46c0-bffc-0dda1561434f</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>75</displayy>
```

```
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<outputs>

<output type="number" name="Size" narrative="The size of the file in bytes" stage="Bytes"/>

</outputs>

</stage>

<stage stageid="d573bf14-6cce-4455-ae05-908d9a527dcb" name="Start" type="Start">

<subsheetid>7ca00106-fe4e-46c0-bffc-0dda1561434f</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="The specified file must exist."/>

</preconditions>

<postconditions>

<condition narrative="The file size will have been determined."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="File Path" narrative="Full path to the file to get the file size" stage="File Path"/>

</inputs>

<onsuccess>6543595a-59fb-4304-b9f3-1acf662a1237</onsuccess>
```

```
</stage>

<stage stageid="0c8b0631-90f5-4646-b0cf-8fab74f80999" name="File Path" type="Data">

<subsheetid>7ca00106-fe4e-46c0-bffc-0dda1561434f</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

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<alwaysinit/>

</stage>

<stage stageid="6543595a-59fb-4304-b9f3-1acf662a1237" name="Get Byte Count" type="Code">

<subsheetid>7ca00106-fe4e-46c0-bffc-0dda1561434f</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="File Path" expr="[File Path]"/>
```

</inputs>

<outputs>

<output type="number" name="Bytes" stage="Bytes"/>

</outputs>

<onsuccess>d07f9435-79c9-4cd5-b803-1cde78f5262c</onsuccess>

<code>Try

Bytes = File.ReadAllBytes(File_Path).Length

Catch e As Exception

Bytes = 0

End Try</code>

</stage>

<stage stageid="3eb7673c-2193-4d7f-ac06-85b1da9ce046" name="Bytes" type="Data">

<subsheetid>7ca00106-fe4e-46c0-bffc-0dda1561434f</subsheetid>

<narrative>

</narrative>

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<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

```
<stage stageid="36451c72-b274-4817-a153-beb1e8a6e76a" name="Start" type="Start">
<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>
<loginhibit/>
<narrative>
</narrative>
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<displayy>-120</displayy>
<displaywidth>60</displaywidth>
<displayheight>30</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<onsuccess>9a8c4505-8606-4a0c-b118-09a6b9932b3b</onsuccess>
</stage>
```

```
<stage stageid="9a8c4505-8606-4a0c-b118-09a6b9932b3b" name="End" type="End">
<subsheetid>9a74af4c-280a-4e30-bdbb-21295b6256ca</subsheetid>
<loginhibit/>
<narrative>
</narrative>
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<displayy>90</displayy>
<displaywidth>60</displaywidth>
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<font family="Tahoma" size="10" style="Regular" color="000000"/>
</stage>
```

```
<stage stageid="d1f13191-1583-4a03-865c-3f0758139ca3" name="Delete File" type="SubSheetInfo">
<subsheetid>70940cba-8680-4eb9-8066-9e383fc5b39b</subsheetid>
<narrative>Deletes a single file from the file system.</narrative>
<displayx>-195</displayx>
```



```
<display>-105</display>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

</stage>

<stage stageid="31d32d9a-4f5c-4793-afc7-d84f096922b9" name="Start" type="Start">

<subsheetid>70940cba-8680-4eb9-8066-9e383fc5b39b</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="The file to be deleted must exist."/>

</preconditions>

<postconditions>

<condition narrative="The named file will have been deleted."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<display>-105</display>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="File Name" narrative="The full path to the file to delete" stage="File Name"/>

</inputs>

<onsuccess>b6262d8e-0c7b-459d-b177-37ae4d226ddf</onsuccess>

</stage>

<stage stageid="cd763cbc-81c0-42b1-9d9d-b2b7d325235d" name="File Name" type="Data">
```

<subsheetid>70940cba-8680-4eb9-8066-9e383fc5b39b</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-30</displayy>

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<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="b6262d8e-0c7b-459d-b177-37ae4d226ddf" name="Delete File" type="Code">

<subsheetid>70940cba-8680-4eb9-8066-9e383fc5b39b</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="File Name" expr="[File Name]"/>

</inputs>

<outputs>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>249acd28-3283-498f-aca8-76c67cb2295c</onsuccess>

<code>Try

If Not File.Exists(File_Name) Then

Throw New ApplicationException("The specified file at " & File_Name & " does not exist")

Else

File.Delete(File_Name)

Success = True

End If

Catch e As Exception

Success = False

Message = e.Message

End Try</code>

</stage>

<stage stageid="1cd4abb9-4dc3-494c-86a7-d85877a1827a" name="Success" type="Data">

<subsheetid>70940cba-8680-4eb9-8066-9e383fc5b39b</subsheetid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="bc5b5c19-fe76-4278-95d2-f89c3588893c" name="Message" type="Data">

<subsheetsid>70940cba-8680-4eb9-8066-9e383fc5b39b</subsheetsid>

<narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="a7bae4fd-01fc-4447-8cf4-fbfd04353f72" name="End" type="End">

<subsheetsid>e9dd304c-7d26-40f5-b193-eef36f0a370c</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>


```
<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Message"/>

</outputs>

</stage>

<stage stageid="576295b9-757e-4588-948e-34aac5140c29" name="End" type="End">

<subsheetid>70940cba-8680-4eb9-8066-9e383fc5b39b</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Message"/>

</outputs>

</stage>

<stage stageid="cef63c98-a65d-4862-9d1d-ff02fbfc92f5" name="Get Folders" type="SubSheetInfo">

<subsheetid>0bafee17-a81a-40f0-9b6b-80b78142dd87</subsheetid>

<narrative>Gets a collection of all subfolders in the specified file system folder.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>
```


</stage>

<stage stageid="f90df4f3-71ee-4470-b90b-1e8a0513cad8" name="Start" type="Start">

<subsheetid>0bafee17-a81a-40f0-9b6b-80b78142dd87</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="The named folder must exist."/>

</preconditions>

<postconditions>

<condition narrative="All sub-folders will be returned, if any exist."/>

</postconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Folder" narrative="The folder in which to look for sub-folders" stage="Folder"/>

</inputs>

<onsuccess>ff503eb2-2cb7-4dbb-90fe-2ab47a5e4a43</onsuccess>

</stage>

<stage stageid="ff503eb2-2cb7-4dbb-90fe-2ab47a5e4a43" name="Get Folders" type="Code">

<subsheetid>0bafee17-a81a-40f0-9b6b-80b78142dd87</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Folder" expr="[Folder]"/>

</inputs>

<outputs>

<output type="collection" name="Folders" stage="Folders"/>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>3dde4f26-00a8-4e1a-af12-b8a14178d89c</onsuccess>

<code>

Dim objTable As DataTable

Dim objRow As DataRow

Dim aFolders As DirectoryInfo()

Dim oDirectory As New DirectoryInfo(Folder)

Try

'Create a data table to output as a collection

objTable = GetDataTable(_

"Path," _

&"Name," _

```
&amp; "Created," _  
& "Last Accessed," _  
& "Last Written", _  
"System.String," _  
& "System.String," _  
& "System.DateTime," _  
& "System.DateTime," _  
& "System.DateTime")
```

```
aFolders = oDirectory.GetDirectories()  
  
For each oFolder as DirectoryInfo in aFolders  
  
    objRow = objTable.NewRow()  
  
    objRow("Path") = oFolder.FullName  
  
    objRow("Name") = oFolder.Name  
  
    objRow("Created") = oFolder.CreationTimeUtc  
  
    objRow("Last Accessed") = oFolder.LastAccessTimeUtc  
  
    objRow("Last Written") = oFolder.LastWriteTimeUtc  
  
  
    objTable.Rows.Add(objRow)
```

```
Next
```

```
Folders = objTable  
  
Success = True  
  
Message = ""  
  
Catch e As Exception  
  
    Success = False  
  
    Message = e.Message
```


End Try</code>

</stage>

<stage stageid="f72d7f92-f944-412b-8890-737f3be3b0a1" name="Folder" type="Data">

<subsheetid>0bafef17-a81a-40f0-9b6b-80b78142dd87</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue xml:space="preserve">C:\</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="1384f5ee-e382-4900-9900-e2e2eb7a9a78" name="Folders" type="Collection">

<subsheetid>0bafef17-a81a-40f0-9b6b-80b78142dd87</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>75</displayy>

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<displayheight>60</displayheight>

<datatype>collection</datatype>

<private/>

```
<alwaysinit/>

</stage>

<stage stageid="aa67216d-b83f-4c14-9f71-5ec6df626c08" name="End" type="End">

<subsheetid>0bafee17-a81a-40f0-9b6b-80b78142dd87</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>30</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

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<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Message"/>

<output type="collection" name="Folders" narrative="A collection of the sub-folders found within the folder"

</outputs>

</stage>

<stage stageid="759f9ebb-96f6-432b-a21e-6673b71cac22" name="Success" type="Data">

<subsheetid>0bafee17-a81a-40f0-9b6b-80b78142dd87</subsheetid>

<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>
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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="5afbf383-4ea5-42f7-a298-d02bf6dc267a" name="Message" type="Data">

<subsheetsid>0bafef17-a81a-40f0-9b6b-80b78142dd87</subsheetsid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="076db864-0743-4339-b606-174f056c63f9" name="Move File" type="SubSheetInfo">

<subsheetsid>85156833-c61c-4c78-916f-0b75a9a83e8d</subsheetsid>

<narrative>Moves the specified file to a new location.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>


```
</stage>

<stage stageid="8c383fb0-b58b-44cd-8dec-c5934289e107" name="Start" type="Start">

<subsheetid>85156833-c61c-4c78-916f-0b75a9a83e8d</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="The file to be moved must exist. There must be sufficient disk space to move the file."

</preconditions>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="File Path" narrative="The full path to the file to move" stage="File Path"/>

<input type="text" name="Destination Path" narrative="The path to the folder to move the file to" stage="De

</inputs>

<onsuccess>8cb5b945-a1c1-451f-b39e-fba3e2b5ab1b</onsuccess>

</stage>

<stage stageid="2c8abe9a-1466-4283-999a-c5c7838a0e27" name="End" type="End">

<subsheetid>85156833-c61c-4c78-916f-0b75a9a83e8d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>30</displayy>
```

```
<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Message"/>

</outputs>

</stage>

<stage stageid="a980280c-98cd-41d0-8a54-734c9bfacc5c" name="Success" type="Data">

<subsheetid>85156833-c61c-4c78-916f-0b75a9a83e8d</subsheetid>

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<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="779e3dfa-a01e-47f9-98c4-9ac10fcd5a11" name="Message" type="Data">

<subsheetid>85156833-c61c-4c78-916f-0b75a9a83e8d</subsheetid>

<loginhibit/>

<narrative>
```

</narrative>

<displayx>-195</displayx>

<displayy>75</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="8cb5b945-a1c1-451f-b39e-fba3e2b5ab1b" name="Move" type="Code">

<subsheetsid>85156833-c61c-4c78-916f-0b75a9a83e8d</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="File Path" expr="[File Path]"/>

<input type="text" name="Destination" expr="[Destination Path]"/>

</inputs>

<outputs>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>acbc8cd8-d4ad-4eae-a7c3-ebbac1d3f4c7</onsuccess>

<code>Try

Dim sSourceFolder As String = Mid(File_Path, 1, File_Path.LastIndexOf("\") + 1)

Dim sSourceFileName As String = Mid(File_Path, File_Path.LastIndexOf("\") + 2)

Dim sDestinationFolder As String

Dim sDestinationFile As String

If Directory.Exists(Destination) Then

sDestinationFolder = Destination

If Not sDestinationFolder.EndsWith("\") Then

sDestinationFolder & amp; amp;= "\"

End If

sDestinationFile = ""

Else

sDestinationFolder = ""

sDestinationFile = Destination

End If

Dim objDirectoryInfo As DirectoryInfo = New DirectoryInfo(sSourceFolder)

Dim aFiles As FileInfo() = objDirectoryInfo.GetFiles(sSourceFileName)

If aFiles Is Nothing OrElse aFiles.Length <= 0 Then

Success = False

Message = "No files found"

Return

End If

For Each oFile As FileInfo In aFiles

If sDestinationFolder = "" Then

oFile.MoveTo(sDestinationFile)

Else

oFile.MoveTo(sDestinationFolder & amp; oFile.Name)

End If

Next

Success = True

Message = ""

Catch e As Exception

Success = False

Message = e.Message

End Try</code>

</stage>

<stage stageid="ba83bbd5-0c51-49b0-ac63-de9e754aab48" name="File Path" type="Data">

<subsheetid>85156833-c61c-4c78-916f-0b75a9a83e8d</subsheetid>

<narrative>

</narrative>

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<displayy>-30</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>


```
<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="57b074ac-98b9-40d1-a342-36dc0a514f77" name="Destination Path" type="Data">

<subsheetid>85156833-c61c-4c78-916f-0b75a9a83e8d</subsheetid>

<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="c83a23da-bc05-4aa4-8a8e-6c09524e2baf" name="Split Path" type="SubSheetInfo">

<subsheetid>b3050915-ad2e-446e-a1d6-99d11506f55e</subsheetid>

<narrative>Splits a file path into its component parts - the filename and the folder path. The trailing backsla

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>
```

</stage>

<stage stageid="6c655f85-fb96-448d-be05-5f6c833e1882" name="Start" type="Start">

<subsheetid>b3050915-ad2e-446e-a1d6-99d11506f55e</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="The specified path must correspond to a file which exists on disk."/>

</preconditions>

<postconditions>

<condition narrative="The path will have been separated."/>

</postconditions>

<narrative>

</narrative>

<displayx>90</displayx>

<displayy>-105</displayy>

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<displayheight>30</displayheight>

<inputs>

<input type="text" name="File Path" narrative="The path to split" stage="File Path"/>

</inputs>

<onsuccess>138061d1-d866-403d-af52-37ea509c7e78</onsuccess>

</stage>

<stage stageid="138061d1-d866-403d-af52-37ea509c7e78" name="Split Path" type="Code">

<subsheetid>b3050915-ad2e-446e-a1d6-99d11506f55e</subsheetid>

<loginhibit/>

<narrative>

</narrative>

90

-45

60

30

90

-45

60

30

90

-45

60

30

90

-45

60

30

90

-45

60

30

90

-45

60

30

90

-45

60

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="de3608a3-9cb7-41c3-ae88-da3dad92053e" name="Folder" type="Data">

<subsheetsid>b3050915-ad2e-446e-a1d6-99d11506f55e</subsheetsid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e0497cae-7418-46ec-a442-ac21369c7a2f" name="File Path" type="Data">

<subsheetsid>b3050915-ad2e-446e-a1d6-99d11506f55e</subsheetsid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="0e35cb6c-257d-40a6-ba20-d661c3ad83fe" name="End" type="End">

<subsheetid>b3050915-ad2e-446e-a1d6-99d11506f55e</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>90</displayx>

<displayy>15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="text" name="File Name" narrative="The filename" stage="File Name"/>

<output type="text" name="Folder" narrative="The folder" stage="Folder"/>

</outputs>

</stage>

<stage stageid="3068b898-6d19-4469-8efd-f355853fda4e" name="Directory Exists" type="SubSheetInfo">

<subsheetid>20e6a636-d89b-4c08-b90d-8852894005a4</subsheetid>

<narrative>Determines whether the specified directory exists. The full path must be specified.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="14e7b70b-4620-4b05-a9f8-5c31396209bd" name="Start" type="Start">

<subsheetid>20e6a636-d89b-4c08-b90d-8852894005a4</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-60</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Directory Name" narrative="The directory to check exists" stage="Directory Nam

</inputs>

<onsuccess>50ef1149-8307-4080-9028-d6bec6eafd78</onsuccess>

</stage>

<stage stageid="4f5a5ea1-9bcf-4b0d-b58b-fb6b18580e44" name="End" type="End">

<subsheetid>20e6a636-d89b-4c08-b90d-8852894005a4</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-60</displayx>

<displayy>-45</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Exists" narrative="True if the directory exists" stage="Exists"/>

</outputs>

</stage>

<stage stageid="50ef1149-8307-4080-9028-d6bec6eafd78" name="Directory Exists" type="Code">

<subsheetid>20e6a636-d89b-4c08-b90d-8852894005a4</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-60</displayx>

<displayy>-90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Directory Name" expr="[Directory Name]"/>

</inputs>

<outputs>

<output type="flag" name="Exists" stage="Exists"/>

</outputs>

<onsuccess>4f5a5ea1-9bcf-4b0d-b58b-fb6b18580e44</onsuccess>

<code>Try

Exists = Directory.Exists(Directory_Name)

Catch

Exists = False

End Try</code>

```
</stage>

<stage stageid="89cff60a-371d-476b-bc55-f0e56150ef45" name="Exists" type="Data">

<subsheetid>20e6a636-d89b-4c08-b90d-8852894005a4</subsheetid>

<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="a9da119d-dbd9-4320-90e1-ca33fae50a91" name="Directory Name" type="Data">

<subsheetid>20e6a636-d89b-4c08-b90d-8852894005a4</subsheetid>

<narrative>

</narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>
```



```
<alwaysinit/>

</stage>

<stage stageid="a1f89739-7f1c-4179-82ea-b123ecfc2854" name="Write Binary Data" type="SubSheetInfo">
  <subsheetid>842c79f8-aa64-4781-ad18-3982e21f0fd1</subsheetid>
  <narrative>Writes binary data to a file. Any existing data in the file (if it exists) will be replaced.</narrative>
  <displayx>-195</displayx>
  <displayy>-105</displayy>
  <displaywidth>150</displaywidth>
  <displayheight>90</displayheight>
  <font family="Tahoma" size="10" style="Regular" color="000000"/>
</stage>

<stage stageid="067fe5ce-ad15-436e-92fa-11e920e00501" name="Start" type="Start">
  <subsheetid>842c79f8-aa64-4781-ad18-3982e21f0fd1</subsheetid>
  <loginhibit/>
  <narrative>
</narrative>
  <displayx>15</displayx>
  <displayy>-105</displayy>
  <displaywidth>60</displaywidth>
  <displayheight>30</displayheight>
  <font family="Tahoma" size="10" style="Regular" color="000000"/>
  <inputs>
    <input type="binary" name="Binary Data" narrative="The data to write to the file" stage="Binary Data"/>
    <input type="text" name="File Name" narrative="The full path of the file to write to" stage="FileName"/>
  </inputs>
  <onsuccess>48430903-e8af-4e4a-8544-8b04afc3478b</onsuccess>
</stage>
```

```
<stage stageid="83dc26e0-402d-403d-a18c-0d3ca147ba6d" name="Binary Data" type="Data">
<subsHEETid>842c79f8-aa64-4781-ad18-3982e21f0fd1</subsHEETid>

<narrative>

</narrative>

<displayx>90</displayx>

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<datatype>binary</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="48430903-e8af-4e4a-8544-8b04afc3478b" name="Write Binary Data" type="Code">
<subsHEETid>842c79f8-aa64-4781-ad18-3982e21f0fd1</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="binary" name="Binary Data" expr="[Binary Data]"/>

<input type="text" name="FileName" expr="[FileName]"/>
```

</inputs>

<outputs>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

</outputs>

<onsuccess>aed480e9-2938-4d36-b400-a3bd2580921a</onsuccess>

<code>Try

File.WriteAllBytes(FileName, Binary_Data)

Success = True

Message = ""

Catch e As Exception

Success = False

Message = e.Message

End Try</code>

</stage>

<stage stageid="709d1a16-f19e-4504-ae79-4a48d1e058c7" name="End" type="End">

<subsheetid>842c79f8-aa64-4781-ad18-3982e21f0fd1</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

```
<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Message"/>

</outputs>

</stage>

<stage stageid="43cbdbc2-6fdc-4080-b257-af95daad3fe4" name="Success" type="Data">

<subsheetid>842c79f8-aa64-4781-ad18-3982e21f0fd1</subsheetid>

<loginhibit/>

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</narrative>

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<datatype>flag</datatype>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="0aebe753-5358-4cf3-982a-a9f0a9870be7" name="Message" type="Data">

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<loginhibit/>

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</narrative>

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<private/>

<alwaysinit/>

</stage>

<stage stageid="5e035935-d499-4706-8ba0-78fdee0a782f" name="FileName" type="Data">

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<alwaysinit/>

</stage>

<stage stageid="c7604000-e2fb-4a03-b8b4-caac4c6b9f9b" name="Combine Path" type="SubSheetInfo">

<subsheetsid>c80dea92-57e8-4e2e-8df4-f3ee6ceeb717</subsheetsid>

<narrative>Takes a file and folder and combines them into a full path.</narrative>

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<displayy>-105</displayy>

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<displayheight>90</displayheight>

</stage>

<stage stageid="71908284-0a93-418a-9205-32dc4780032c" name="Start" type="Start">

<subsheetid>c80dea92-57e8-4e2e-8df4-f3ee6ceeb717</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<postconditions>

<condition narrative="The path will have been combined."/>

</postconditions>

<narrative>

</narrative>

<displayx>120</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Folder" narrative="The folder to combine" stage="Folder"/>

<input type="text" name="File Name" narrative="The file to combine" stage="File Name"/>

</inputs>

<onsuccess>39d35633-fc08-4dd1-a13a-1bfc9a0a9bd1</onsuccess>

</stage>

<stage stageid="39d35633-fc08-4dd1-a13a-1bfc9a0a9bd1" name="Combine Path" type="Code">

<subsheetid>c80dea92-57e8-4e2e-8df4-f3ee6ceeb717</subsheetid>

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<narrative>

</narrative>

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<inputs>

<input type="text" name="Folder" expr="[Folder]"/>

<input type="text" name="File Name" expr="[File Name]"/>

</inputs>

<outputs>

<output type="text" name="Path" stage="Path"/>

</outputs>

<onsuccess>b4d82bcb-e011-4728-a3ec-4c052dcebaaf</onsuccess>

<code>

Path = IO.Path.Combine(Folder, File_Name)

</code>

</stage>

<stage stageid="dca04a3f-b696-45b1-95c8-63dce520abe3" name="File Name" type="Data">

<subsheetsid>c80dea92-57e8-4e2e-8df4-f3ee6ceeb717</subsheetsid>

<narrative>

</narrative>

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<stage stageid="e27e592f-8a2e-4df9-9453-1cdc8621051b" name="Folder" type="Data">
<subsheetsid>c80dea92-57e8-4e2e-8df4-f3ee6ceeb717</subsheetsid>
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</narrative>
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</stage>
<stage stageid="b4d82bcb-e011-4728-a3ec-4c052dcebaaf" name="End" type="End">
<subsheetsid>c80dea92-57e8-4e2e-8df4-f3ee6ceeb717</subsheetsid>
<loginhibit/>
<narrative>
</narrative>
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<displaywidth>60</displaywidth>

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<outputs>

<output type="text" name="Path" narrative="The combined full path" stage="Path"/>

</outputs>

</stage>

<stage stageid="ef4fc19c-8897-431e-8688-11a52561113f" name="Path" type="Data">

<subsheetid>c80dea92-57e8-4e2e-8df4-f3ee6ceeb717</subsheetid>

<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="a664d6c1-8951-4309-95b7-b7ae2edced0d" name="Create Directory" type="SubSheetInfo">

<subsheetid>1ff30a41-e177-40c5-a756-a6b466004f32</subsheetid>

<narrative>Creates a directory under the given path.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="82e63828-72ff-4705-8c88-89c3316aa73e" name="Start" type="Start">

<subsheetid>1ff30a41-e177-40c5-a756-a6b466004f32</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Directory Path" narrative="The path in which to create the directory" stage="Dire

<input type="flag" name="Error If Already Exists" narrative="True to generate an error if the directory alrea

</inputs>

<onsuccess>98af3f34-4ec7-49c5-a6cc-1cf6192b0e05</onsuccess>

</stage>

<stage stageid="e061382f-4149-485b-9668-f2fc0ca334bd" name="End" type="End">

<subsheetid>1ff30a41-e177-40c5-a756-a6b466004f32</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Error Message" />

</outputs>

</stage>

<stage stageid="800212c5-6bfb-4df9-b501-39f55906a7b2" name="Directory Path" type="Data">

<subsheetid>1ff30a41-e177-40c5-a756-a6b466004f32</subsheetid>

<narrative>

</narrative>

<displayx>120</displayx>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e00501ce-6aa6-4616-9bf2-3904d515656c" name="Error If Already Exists" type="Data">

<subsheetid>1ff30a41-e177-40c5-a756-a6b466004f32</subsheetid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="98af3f34-4ec7-49c5-a6cc-1cf6192b0e05" name="Create Directory" type="Code">

<subsheetsid>1ff30a41-e177-40c5-a756-a6b466004f32</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-60</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Directory Path" expr="[Directory Path]"/>

<input type="flag" name="ErrorIfAlreadyExists" expr="[Error If Already Exists]"/>

</inputs>

<outputs>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Error Message" stage="Error Message"/>

</outputs>

<onsuccess>060a1fdb-6243-40f1-96e0-1c0b54382bfa</onsuccess>

```
<code>Try
If Not Directory.Exists(Directory_Path) Then
Directory.CreateDirectory(Directory_Path)
Else
If ErrorIfAlreadyExists Then Throw New ApplicationException("Directory already exists")
End If

Success = True

Catch Ex as Exception

Success = False

Error_Message = Ex.ToString()

End Try</code>

</stage>

<stage stageid="3b33d39b-1c7c-4664-ab8b-859aa2e15836" name="Success" type="Data">

<subsheetid>1ff30a41-e177-40c5-a756-a6b466004f32</subsheetid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>
```

```
<stage stageid="9cbff7ae-931b-479f-b70f-7773ddda315c" name="Error Message" type="Data">
<subsheetsid>1ff30a41-e177-40c5-a756-a6b466004f32</subsheetsid>
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</narrative>
<displayx>180</displayx>
<displayy>-60</displayy>
<displaywidth>60</displaywidth>
<displayheight>30</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<datatype>text</datatype>
<initialvalue/>
<private/>
<alwaysinit/>
</stage>
```

```
<stage stageid="20cbacd9-1e17-4fc0-85de-64615b1f3d18" name="Delete Directory" type="SubSheetInfo">
<subsheetsid>d68f192f-eeb7-420e-b156-9636503b6082</subsheetsid>
<narrative>Deletes a directory and if Recursive is True will delete all subdirectories if present</narrative>
<displayx>-195</displayx>
<displayy>-105</displayy>
<displaywidth>150</displaywidth>
<displayheight>90</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
</stage>
```

```
<stage stageid="df3458a7-2e7e-451c-b27a-efc3737c22a4" name="Start" type="Start">
<subsheetsid>d68f192f-eeb7-420e-b156-9636503b6082</subsheetsid>
<loginhibit/>
<narrative>
```

```
</narrative>

<displayx>-45</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Directory Path" narrative="The path of the directory to delete" stage="Directory Path" />

<input type="flag" name="Error If Not Exists" narrative="Set True to raise an error if the path does not exist" stage="Error If Not Exists" />

<input type="flag" name="Recursive" narrative="Set True to delete all sub-directories of the path aswell" stage="Recursive" />

</inputs>

<onsuccess>ef40ac3e-3a06-4ca9-a3be-daae97b8c700</onsuccess>

</stage>

<stage stageid="09677c01-2e36-4330-ae33-defa66a1e7b1" name="End" type="End">

<subsheetid>d68f192f-eeb7-420e-b156-9636503b6082</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="flag" name="Success" narrative="True if successful" stage="Success"/>

<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Error Message" />

</outputs>
```

```
</stage>

<stage stageid="3afa3efd-a788-4410-a16c-5e2ecfc599d8" name="Directory Path" type="Data">

<subsheetid>d68f192f-eeb7-420e-b156-9636503b6082</subsheetid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="ef40ac3e-3a06-4ca9-a3be-daae97b8c700" name="Delete Directory" type="Code">

<subsheetid>d68f192f-eeb7-420e-b156-9636503b6082</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-45</displayx>

<displayy>-90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Directory Path" expr="[Directory Path]"/>
```



```
<input type="flag" name="Recursive" expr="[Recursive]"/>
```

```
<input type="flag" name="ErrorIfNotExists" expr="[Error If Not Exists]"/>
```

```
</inputs>
```

```
<outputs>
```

```
<output type="flag" name="Success" stage="Success"/>
```

```
<output type="text" name="Error Message" stage="Error Message"/>
```

```
</outputs>
```

```
<onsuccess>8db31208-966a-494a-9315-8a4add93c64c</onsuccess>
```

```
<code>Try
```

```
If Directory.Exists(Directory_Path) Then
```

```
Dim SubDirectories As Boolean
```

```
SubDirectories = False
```

```
Dim SubdirectoryEntries As String()
```

```
SubdirectoryEntries = Directory.GetDirectories(Directory_Path)
```

```
If SubdirectoryEntries.Length > 0 Then SubDirectories = True
```

```
If SubDirectories And Not Recursive Then Throw New ApplicationException("Directory has sub directories")
```

```
Directory.Delete(Directory_Path, Recursive)
```

```
Else
```

```
If ErrorIfNotExists Then Throw New ApplicationException("Directory does not exist")
```

```
End If
```

Success = True

Catch UAEx as UnauthorizedAccessException

Success = False

Error_Message = "The caller does not have the required permission to delete this directory or sub directory"

Catch ANEx as ArgumentNullException

Success = False

Error_Message = "Please check Directory Path parameter is not null"

Catch AEx as ArgumentException

Success = False

Error_Message = "Please check Directory Path parameter is a valid string"

Catch PTLEx as PathTooLongException

Success = False

Error_Message = "The specified path, file name, or both exceed the system-defined maximum length. For

Catch Ex as Exception

Success = False

Error_Message = Ex.ToString()

End Try</code>

</stage>

<stage stageid="1ea4ba58-4e52-4229-9f95-9f91c0fda672" name="Success" type="Data">

<subsheetsid>d68f192f-eeb7-420e-b156-9636503b6082</subsheetsid>

<narrative>

</narrative>

<displayx>105</displayx>

<displayy>-75</displayy>

<displaywidth>120</displaywidth>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="cd89d345-b43b-43b1-a112-d69cd7b07387" name="Error Message" type="Data">

<subsheetsid>d68f192f-eeb7-420e-b156-9636503b6082</subsheetsid>

<narrative>

</narrative>

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<displayheight>90</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="498faab3-e919-4560-a284-8303f82f3c54" name="Recursive" type="Data">

<subsheetid>d68f192f-eeb7-420e-b156-9636503b6082</subsheetid>

<narrative>

</narrative>

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<displaywidth>120</displaywidth>

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<datatype>flag</datatype>

<initialvalue>True</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="c7f09a8a-5e8c-4bd8-ae1c-03c88a61bc8b" name="Error If Not Exists" type="Data">

<subsheetid>d68f192f-eeb7-420e-b156-9636503b6082</subsheetid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue>True</initialvalue>

<private/>

<alwaysinit/>

</stage>

```
<stage stageid="1a001ca1-2f75-4d52-8668-8537da4738b3" name="Sub Directory Exists" type="SubSheet">
<subsheetsid>0bad9bbd-7a9f-4791-b6a8-ff5a2c4c39b8</subsheetsid>
<narrative>Checks if a directory contains sub directories</narrative>
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<displayy>-105</displayy>
<displaywidth>150</displaywidth>
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</stage>

<stage stageid="9d21f26b-5ccc-4f2f-b6f3-3443cb23a95f" name="Start" type="Start">
<subsheetsid>0bad9bbd-7a9f-4791-b6a8-ff5a2c4c39b8</subsheetsid>
<loginhibit/>
<narrative>
</narrative>
<displayx>-15</displayx>
<displayy>-150</displayy>
<displaywidth>60</displaywidth>
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<font family="Tahoma" size="10" style="Regular" color="000000"/>
<inputs>
<input type="text" name="Directory Path" narrative="The path of the directory to check for sub directories"
</inputs>
<onsuccess>9bd1eb97-f903-4b5b-bdb0-9aa7d84feeadd</onsuccess>
</stage>

<stage stageid="167ee595-8609-4b40-9cbb-70394613201b" name="End" type="End">
<subsheetsid>0bad9bbd-7a9f-4791-b6a8-ff5a2c4c39b8</subsheetsid>
<loginhibit/>
```

```
<narrative>

</narrative>

<displayx>-15</displayx>

<displayy>-15</displayy>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="flag" name="Exists" narrative="True if sub directories exist" stage="Exists"/>

<output type="flag" name="Success" narrative="True if the check was successful" stage="Success"/>

<output type="text" name="Message" narrative="An error message if unsuccessful" stage="Error Message" />

</outputs>

</stage>

<stage stageid="9bd1eb97-f903-4b5b-bdb0-9aa7d84feead" name="Get Sub Directories" type="Code">

<subsheetid>0bad9bbd-7a9f-4791-b6a8-ff5a2c4c39b8</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-15</displayx>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Directory Path" expr="[Directory Path]"/>

</inputs>

<outputs>
```

```
<output type="flag" name="Exists" stage="Exists"/>
<output type="flag" name="Success" stage="Success"/>
<output type="text" name="Error Message" stage="Error Message"/>
</outputs>
<onsuccess>33ba9e06-b05b-4e51-baa6-7f6c9165c558</onsuccess>
<code>Try
```

Exists = False

If Directory.Exists(Directory_Path) Then

Dim subdirectoryEntries As String()

subdirectoryEntries = Directory.GetDirectories(Directory_Path)

If subdirectoryEntries.Length > 0 Then Exists = True

Else

Throw New ApplicationException("Directory does not exist")

End If

Success = True

Catch Ex as Exception

Success = False

Error_Message = Ex.ToString()

End Try

</code>

</stage>

<stage stageid="50a0102e-8884-426d-b94f-ed07f6b9eb46" name="Exists" type="Data">

```
<subsheetid>0bad9bbd-7a9f-4791-b6a8-ff5a2c4c39b8</subsheetid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="c52a3808-5f20-4498-a5a6-6e8bd391e41c" name="Directory Path" type="Data">

<subsheetid>0bad9bbd-7a9f-4791-b6a8-ff5a2c4c39b8</subsheetid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue xml:space="preserve">C:\TEMP\Test Directory\A\c</initialvalue>

<private/>

<alwaysinit/>

</stage>
```


<stage stageid="227470b6-fe82-4351-a497-6094c99e4193" name="Success" type="Data">

<subsheetsid>0bad9bbd-7a9f-4791-b6a8-ff5a2c4c39b8</subsheetsid>

<narrative>

</narrative>

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<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="586142aa-051e-4ec9-8b60-fe063eb60b77" name="Error Message" type="Data">

<subsheetsid>0bad9bbd-7a9f-4791-b6a8-ff5a2c4c39b8</subsheetsid>

<narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

```
</stage>

<stage stageid="12caee97-e82e-461c-8b22-dabe4248d7a8" name="Get CSV Text As Collection" type="S

<subsheetsid>f7fa43ec-67e2-4acb-8d13-ced3c5027761</subsheetsid>

<narrative>Turns a comma seperated values file into a collection</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

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</stage>

<stage stageid="939139f9-83c3-4076-85ca-1daa3e637601" name="Start" type="Start">

<subsheetsid>f7fa43ec-67e2-4acb-8d13-ced3c5027761</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-15</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="CSV File Path" narrative="The full path to the CSV file" stage="CSV Location"/>

<input type="flag" name="First Line Is Header" narrative="Set True if you want to treat the first line as a he

</inputs>

<onsuccess>dd7efc8a-65d0-432e-a205-643037779b8d</onsuccess>

</stage>

<stage stageid="c85955cf-695f-4e82-acdb-72332a337fc7" name="End" type="End">
```

```
<subsheetid>f7fa43ec-67e2-4acb-8d13-ced3c5027761</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

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<outputs>

<output type="collection" name="CSV Values" narrative="The collection populated with the values of the C

</outputs>

</stage>

<stage stageid="96016690-fb73-49d3-bcfc-56b25dd9d3db" name="CSV Location" type="Data">

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</narrative>

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<datatype>text</datatype>

<initialvalue xml:space="preserve">C:\BluePrism\Medalytix\iGrading\Test_Suite\ImagesIndex.csv</initialva

<private/>

<alwaysinit/>

</stage>
```

<stage stageid="dd7efc8a-65d0-432e-a205-643037779b8d" name="Parse CSV" type="Code">

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<loginhibit/>

<narrative>

</narrative>

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<displayy>-90</displayy>

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<displayheight>30</displayheight>

<inputs>

<input type="text" name="CSV Location" expr="[CSV Location]"/>

<input type="flag" name="First_Line_Is_Header" expr="[First Line Is Header]"/>

</inputs>

<outputs>

<output type="collection" name="Values" stage="CSV Values"/>

</outputs>

<onsuccess>c85955cf-695f-4e82-acdb-72332a337fc7</onsuccess>

<code>Dim HDRString As String = "No"

If First_Line_Is_Header Then HDRSTring = "Yes"

Dim Folder as String = nothing

Dim FileName As String = Nothing

Split_Path(CSV_Location, Folder, Filename)

Dim cn As New OleDbConnection("Provider=Microsoft.Jet.OLEDB.4.0; Data Source=" && Folder &

```
Dim da As New OleDbDataAdapter()
```

```
Dim ds As New DataSet()
```

```
Dim cd As New OleDbCommand("SELECT * FROM [" & & Filename & & "]", cn)
```

```
cn.Open()
```

```
da.SelectCommand = cd
```

```
ds.Clear()
```

```
da.Fill(ds, "CSV")
```

```
Values = ds.Tables(0)
```

```
cn.Close()</code>
```

```
</stage>
```

```
<stage stageid="5fe33334-21a0-4751-931d-92622545fe5d" name="CSV Values" type="Collection">
```

```
<subsheetid>f7fa43ec-67e2-4acb-8d13-ced3c5027761</subsheetid>
```

```
<narrative>
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```
</narrative>
```

```
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```
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```
<private/>
```

```
<alwaysinit/>
```

```
</stage>
```

```
<stage stageid="1dc002ef-16ce-4e9b-9eed-1c4c8a375f11" name="First Line Is Header" type="Data">
```

```
<subsheetid>f7fa43ec-67e2-4acb-8d13-ced3c5027761</subsheetid>
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<narrative>
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</narrative>

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<displayy>-135</displayy>

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<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue>True</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e1836bd9-a0bc-45e9-9f62-2835fb1f6144" name="Get Special Folder Path" type="SubShe

<subsheetsid>40c6e605-9948-429a-ac84-d2810bca75fc</subsheetsid>

<narrative>Gets the path of a special folder.</narrative>

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<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="984cc49d-2710-42f2-85cc-b02b1af6ff97" name="Start" type="Start">

<subsheetsid>40c6e605-9948-429a-ac84-d2810bca75fc</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>-135</displayy>

```
<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Special Folder Name" narrative="The name of the special folder. Supported values are: " <input type="text" name="Special Folder Name" narrative="The name of the special folder. Supported values are: "

</inputs>

<onsuccess>548052a7-4e77-4da0-a80e-07ce9d38ecba</onsuccess>

</stage>

<stage stageid="f77e4b56-0c20-4361-b1ac-7fbae4cebd0a" name="End" type="End">

<subsheetsid>40c6e605-9948-429a-ac84-d2810bca75fc</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Folder Path" narrative="The corresponding path of the requested special folder." <output type="text" name="Folder Path" narrative="The corresponding path of the requested special folder."

</outputs>

</stage>

<stage stageid="1eb8ae16-c4b3-4a26-9476-974fec0fb4c4" name="Special Folder Name" type="Data">

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<narrative>

</narrative>

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<display>-135</display>

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<datatype>text</datatype>

<initialvalue xml:space="preserve">InternetCache</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="548052a7-4e77-4da0-a80e-07ce9d38ecba" name="Get Folder Path" type="Code">

<subsheetid>40c6e605-9948-429a-ac84-d2810bca75fc</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-30</displayx>

<displayy>-90</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Special Folder" expr="[Special Folder Name]"/>

</inputs>

<outputs>

<output type="text" name="Folder Path" stage="Folder Path"/>

</outputs>

<onsuccess>f77e4b56-0c20-4361-b1ac-7fbae4cebd0a</onsuccess>

<code>Dim EnumVal as Environment.SpecialFolder


```
Try
EnumVal = CType(System.Enum.Parse(GetType(Environment.SpecialFolder), Special_Folder), Environme
Catch Ex As Exception
Throw New ApplicationException("Value "" && Special_Folder && "" is not recognised as a
End Try
```

```
Folder_Path = Environment.GetFolderPath(EnumVal)</code>
```

```
</stage>
```

```
<stage stageid="394a43a7-79f9-4edb-887f-d051122fa5f0" name="Folder Path" type="Data">
```

```
<subsheetsid>40c6e605-9948-429a-ac84-d2810bca75fc</subsheetsid>
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<narrative>
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</narrative>
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<private/>
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<alwaysinit/>
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```
</stage>
```

```
<stage stageid="f9a81b69-65ad-4194-8361-a2e49aab6c2c" name="Download File" type="SubSheetInfo">
```

```
<subsheetsid>d7b21a3e-52ee-4632-b2e4-88c0e1ff0dea</subsheetsid>
```

```
<narrative>Downloads a file from a web URL and saves it in a folder on disk.</narrative>
```

```
<displayx>-195</displayx>
```

```
<displayy>-105</displayy>
```

```
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<displayheight>90</displayheight>

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</stage>

<stage stageid="ce6133ff-352a-4e74-b9a9-a2bb5d8c8858" name="Start" type="Start">

<subsheetid>d7b21a3e-52ee-4632-b2e4-88c0e1ff0dea</subsheetid>

<loginhibit/>

<preconditions>

<condition narrative="None."/>

</preconditions>

<narrative>

</narrative>

<displayx>0</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Source URL" narrative="The URL of the file that is to be downloaded" stage="Source URL">

<input type="text" name="Destination Path" narrative="The location of the folder where the file is to be saved" stage="Destination Path">

</inputs>

<onsuccess>a9bb95cf-84c0-42b2-9fac-e36252a56808</onsuccess>

</stage>

<stage stageid="00124bb2-c920-40c3-92e1-efb49b029dc0" name="End" type="End">

<subsheetid>d7b21a3e-52ee-4632-b2e4-88c0e1ff0dea</subsheetid>

<loginhibit/>

<narrative>
```

```
</narrative>

<displayx>0</displayx>

<displayy>-45</displayy>

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</stage>

<stage stageid="5b30cabb-184c-427b-860e-a315e03763ba" name="Destination Path" type="Data">

<subsheetsid>d7b21a3e-52ee-4632-b2e4-88c0e1ff0dea</subsheetsid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>0</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="1ee09d3b-a12d-48c7-89a2-7a947d431ac5" name="Source URL" type="Data">

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<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="a9bb95cf-84c0-42b2-9fac-e36252a56808" name="Download File" type="Code">

<subsheetsid>d7b21a3e-52ee-4632-b2e4-88c0e1ff0dea</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>0</displayx>

<displayy>-90</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Url" expr="[Source URL]"/>

<input type="text" name="Path" expr="[Destination Path]"/>

</inputs>

<onsuccess>00124bb2-c920-40c3-92e1-efb49b029dc0</onsuccess>

<code>Using wc As New System.Net.WebClient()

wc.DownloadFile(Url, Path)

End Using</code>

</stage>

```
<stage stageid="744e3f22-df5c-4d9e-984b-eceb276cbb95" name="Read Lines From File" type="SubSheet">
  <subsheets>
    <subsheetid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetid>
    <narrative>Reads a range of lines from a text file</narrative>
    <displayx>-195</displayx>
    <displayy>-105</displayy>
    <displaywidth>150</displaywidth>
    <displayheight>90</displayheight>
    <font family="Tahoma" size="10" style="Regular" color="000000"/>
  </stage>

  <stage stageid="09ef75fb-7cbe-4b43-900b-bd0112866589" name="File Path" type="Data">
    <subsheets>
      <subsheetid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetid>
      <narrative>
      </narrative>
      <displayx>-195</displayx>
      <displayy>-30</displayy>
      <displaywidth>150</displaywidth>
      <displayheight>30</displayheight>
      <font family="Tahoma" size="10" style="Regular" color="000000"/>
      <datatype>text</datatype>
      <initialvalue/>
      <private/>
      <alwaysinit/>
    </stage>

    <stage stageid="b3721f65-c0fd-4187-9e61-da35cecde126" name="Start Line" type="Data">
      <subsheets>
        <subsheetid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetid>
        <narrative>
        </narrative>
```

```
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<displayy>0</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="3444d260-8bd2-44b4-91c8-1f4dc3a07e1d" name="End Line" type="Data">

<subsheetsid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetsid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>30</displayy>

<displaywidth>150</displaywidth>

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<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="de2f0517-71e7-4bfa-b20b-0f6049ee064d" name="EOF" type="Data">

<subsheetsid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetsid>

<narrative>
```

</narrative>

<displayx>-195</displayx>

<displayy>225</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e19c2d2b-f05b-48b3-a6c0-e6c368a0720b" name="Success" type="Data">

<subsheetsid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>90</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="2814638b-191d-44de-9e9d-e38ce3a2bdb5" name="Message" type="Data">

<subsheetid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>120</displayy>

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<displayheight>30</displayheight>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="677752c3-298c-4ea1-abaf-244b239d65d0" name="Lines" type="Collection">

<subsheetid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>180</displayy>

<displaywidth>150</displaywidth>

<displayheight>60</displayheight>

<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="e5bbb949-f610-4f45-bcb7-10a0fc6b123d" name="Line Count" type="Data">

<subsHEETid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsHEETid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>255</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>number</datatype>

<initialvalue>0</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="bf17d04b-65f1-4bf3-a12c-7121e3c2a075" name="Start" type="Start">

<subsHEETid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsHEETid>

<loginhibit/>

<preconditions>

<condition narrative="The text file exists and the user has appropriate privileges to allow reading it"/>

<condition narrative="The Start Line argument is less than or equal to the End Line argument"/>

</preconditions>

<postconditions>

<condition narrative="The lines between and including Start Line and End Line are returned"/>

<condition narrative="EOF will indicate if the end of the file was reached before End Line was reached"/>

</postconditions>

<narrative>

</narrative>

<displayx>-15</displayx>

<displayy>-135</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="File Path" narrative="The file to read" stage="File Path"/>

<input type="number" name="Start Line" narrative="The first line to read" stage="Start Line"/>

<input type="number" name="End Line" narrative="The last line to read" stage="End Line"/>

</inputs>

<onsuccess>4942f615-9ff9-497d-b3ff-dd697860c232</onsuccess>

</stage>

<stage stageid="76661ec7-b5b7-4cf5-9b34-27ca45c70b40" name="Read Lines" type="Code">

<subsheetsid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-15</displayx>

<displayy>-45</displayy>

<displaywidth>90</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="File Path" expr="[File Path]"/>

<input type="number" name="Start Line" expr="[Start Line]"/>

<input type="number" name="End Line" expr="[End Line]"/>

</inputs>

<outputs>

<output type="flag" name="Success" stage="Success"/>

<output type="text" name="Message" stage="Message"/>

<output type="collection" name="Lines" stage="Lines"/>

<output type="number" name="Line Count" stage="Line Count"/>

<output type="flag" name="EOF" stage="EOF"/>

</outputs>

<onsuccess>7d20fad4-4b50-4841-94e9-5f38571de063</onsuccess>

<code>' Assume success

Success = True

Message = ""

Try

Lines = New DataTable()

Lines.Columns.Add("Line", GetType(String))

Using sr As New StreamReader(File_Path)

EOF = False

Start_Line = Math.Max(1, Start_Line)

Dim line as String

Dim lineNo As Integer = 0

Do

line = sr.ReadLine()

lineNo += 1

If line Is Nothing Then EOF = True : Exit Do

If lineNo >= Start_Line Then Lines.Rows.Add(line)

If lineNo = End_Line Then Exit Do

Loop Until line Is Nothing

Line_Count = Lines.Rows.Count

End Using

Catch ex As Exception

Success = False

Message = ex.Message

End Try

</code>

</stage>

<stage stageid="bcb21a17-13b7-404f-b11f-16d75385411f" name="End" type="End">

<subsheetid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-15</displayx>

<displayy>45</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Success" narrative="True is the read was successful" stage="Success"/>

<output type="text" name="Message" narrative="The exception detail if the read was unsuccessful" stage="

<output type="collection" name="Lines" narrative="The lines read - the collection contains a single text col

<output type="number" name="Line Count" narrative="The number of lines read" stage="Line Count"/>

<output type="flag" name="End of File" narrative="True if the end of the file was reached before the 'End L

</outputs>

</stage>

<stage stageid="4942f615-9ff9-497d-b3ff-dd697860c232" name="Start Line > End Line?" type="De

<subsheetid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>-15</displayx>

<displayy>-90</displayy>

<displaywidth>120</displaywidth>

<displayheight>30</displayheight>

<decision expression="[Start Line] > [End Line]"/>

<ontrue>fb13e8fc-442c-4cbb-87c1-b4ec596ee962</ontrue>

<onfalse>76661ec7-b5b7-4cf5-9b34-27ca45c70b40</onfalse>

</stage>

<stage stageid="fb13e8fc-442c-4cbb-87c1-b4ec596ee962" name="Semi-Exception" type="MultipleCalcula

<subsheetid>6a9cff0d-c7c5-440a-bd8d-0007e15eae4d</subsheetid>

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<narrative>

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</inputs>

<onsuccess>9c60978a-68d2-4812-954d-21a8ffad59eb</onsuccess>

</stage>

<stage stageid="7ab69f85-6478-414b-bbbe-f85afaaf07a3" name="End" type="End">

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<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

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</stage>

<stage stageid="9c60978a-68d2-4812-954d-21a8ffad59eb" name="Lock" type="Action">

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<inputs>

<input type="text" name="Item Key" expr="[Foreground Lock For This Resource]"/>

<input type="timespan" name="Timeout" expr="[Timeout]"/>

</inputs>

<onsuccess>7ab69f85-6478-414b-bbbe-f85afaaf07a3</onsuccess>

<resource object="Utility - Locking" action="Lock Item"/>

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</stage>

<stage stageid="0192fbd9-907d-484d-8e29-9034faafd0a5" name="Release Foreground Lock" type="SubS

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<stage stageid="b59391d7-81e0-4bfe-aaea-45fe8a963480" name="End" type="End">
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<input type="text" name="Item Key" narrative="The key of the item to be unlocked." expr="[Foreground Locking Key]">

<input type="flag" name="Error If Not Locked" narrative="Indicates whether an exception should be thrown if the item is not locked.">

</inputs>

<onsuccess>b59391d7-81e0-4bfe-aaea-45fe8a963480</onsuccess>

<resource object="Utility - Locking" action="Release Lock"/>

</stage>

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<private/>

<alwaysinit/>

</stage>

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</stage>

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<subsheetsid>e76e12db-361a-43d0-9b04-13bc9ce2162f</subsheetsid>

<loginhibit/>

<narrative>- OVERVIEW -

This object is designed to control access to "foreground" operations by two processes requiring global mou

It works by automatically creating a queue item key on the current machine. Thus at runtime there will be o

To prevent a possible race condition in which two processes create duplicate locks on the same machine, a

<displayx>210</displayx>

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<stage stageid="b6806a5b-4ba2-4fd6-a412-b139b918d676" name="Note1" type="Note">

<subsheetid>e76e12db-361a-43d0-9b04-13bc9ce2162f</subsheetid>

<loginhibit/>

<narrative>- SETUP -

Import the Locking business object used by this process.

Set up the queue expected by that business object.

Use this business object it to create a unique "Foreground Master Lock" key - see the appropriate page in t

Use this business object by peppering it around your business objects. Respect the "try-finally" approach b

Your business objects can be marked as "background" provided you implement your locking properly.</na

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<inputs>

<input type="text" name="Item Key" narrative="The item key of the queue item to be created" expr="[Foreground Lock Key]" />

<input type="flag" name="Ignore If Exists" narrative="When true, no action will be taken if the item already exists" />

</inputs>

<onsuccess>9159bccb-c8f5-4136-9832-7242da1784fe</onsuccess>

<resource object="Utility - Locking" action="Set Up Queue Item"/>

</stage>

<stage stageid="dbd73bf9-7c61-4aca-8b76-114da4a7ce76" name="Foreground Lock For This Resource">

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<onsuccess>ab47a353-e238-48df-9df1-ec203a834cb0</onsuccess>

<calculation expression="Left(&quot;FG Lock - &quot; &amp; [Resource Name], 30)" stage=

</stage>

<stage stageid="cf562934-8d9b-4de7-81c5-2dcd3653bd2f" name="Lock Master Key" type="Action">

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<inputs>

<input type="text" name="Item Key" expr="[Master Lock Key Item]"/>
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<input type="timespan" name="Timeout" expr="MakeTimeSpan(0,0,1,0,0)"/>

</inputs>

<onsuccess>4a0a15e7-9d46-4888-aeac-245f144c40e9</onsuccess>

<resource object="Utility - Locking" action="Lock Item"/>

</stage>

<stage stageid="da76554d-e098-4906-8724-26392d2c15f8" name="Master Lock Key Item" type="Data">

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<datatype>text</datatype>

<initialvalue xml:space="preserve">Foreground Locking Master Key</initialvalue>

<alwaysinit/>

</stage>

<stage stageid="9159bccb-c8f5-4136-9832-7242da1784fe" name="Release Master Key" type="Action">

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<inputs>

<input type="text" name="Item Key" narrative="The key of the item to be unlocked." expr="[Master Lock Ke

<input type="flag" name="Error If Not Locked" narrative="Indicates whether an exception should be thrown

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<resource object="Utility - Locking" action="Release Lock"/>

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<stage stageid="b243a25a-2eb4-4a26-b804-fa32201dfd57" name="End" type="End">

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<inputs>

<input type="text" name="Item Key" narrative="The item key of the queue item to be created" expr="[Master Key]" />

<input type="flag" name="Ignore If Exists" narrative="When true, no action will be taken if the item already exists" />

</inputs>

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<loginhibit/>

<narrative>Private page for setup

Run once only on each database - not needed for each machine. Further per-machine keys are created au

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<stage stageid="7d81d9fb-8fa5-4c2b-9af8-6cf0a0c22a6f" name="Timeout" type="Data">

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<stage stageid="ea4e1a60-f68c-43d3-aeae-71ad16f8b73c" name="Get Resource Name" type="Calculation">

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<onsuccess>25ef5771-771f-431c-ae7c-7fb5fd308922</onsuccess>

<calculation expression="GetResourceName()" stage="Resource Name"/>

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<stage stageid="a3aa9026-6c07-4ca6-8d64-4cda91d8bb1b" name="Note3" type="Note">

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<narrative>Bug 5029 means that GetResourceName() does not work</narrative>

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<outputs>

<output type="text" name="Resource Name" stage="Resource Name"/>

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<code>Resource_Name = Environment.MachineName()</code>

</stage>

</process>

<process name="Utility - Garbage Collection" version="1.0" narrative="Utility business object to explicitly in

<appdef>

<element name="Application Root">

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<basetype>Application</basetype>

<id>8df3de4c-60ea-499a-8ff3-90add7748222</id>
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<diagnose>False</diagnose>

</element>

</appdef>

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<endpoint narrative=""/>

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<subsheet subsheetid="66e4c1f8-b553-4958-999e-6915f588bcc8" type="Normal" published="True">

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</view>

</subsheet>

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<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

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<import>System.Drawing</import>

</imports>

<language>visualbasic</language>

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<code></code>

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<stage stageid="b49692a6-ce4f-473f-817a-da958d3d9b5d" name="Collect" type="SubSheetInfo">

<subsheetid>66e4c1f8-b553-4958-999e-6915f588bcc8</subsheetid>

<narrative>Forces an immediate garbage collection of all generations.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<subsheetid>543f3964-598a-41ee-96cb-ee82028dbced</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="3d978da8-cd0e-4230-8a3b-fbe555823406" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business of

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="34cdeaad-b629-49d5-a977-6526d9f6b313" name="Code1" type="Code">

<subsheetid>66e4c1f8-b553-4958-999e-6915f588bcc8</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<onsuccess>6a2519c1-3e87-4cd3-acd0-f928a33bc815</onsuccess>

<code>GC.Collect()

GC.WaitForPendingFinalizers()</code>

</stage>

</process>

<process name="Utility - General" version="6.7.0.0" narrative="General utility functions which don't fit into s

<appdef>

<element name="Application Root">

<type>Application</type>

<basetype>Application</basetype>

<id>1f3e584e-cb89-48ad-bd40-602968bdf4b9</id>

<datatype>unknown</datatype>

<diagnose>False</diagnose>

</element>

</appdef>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

<preconditions/>

<endpoint narrative=""/>

<subsheet subsheetid="177b593b-1118-4903-802c-d939d96ab07d" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="1cfff60e-8c0b-4cec-af1e-645eaa20d5cd" type="Normal" published="True">

<name>Sleep</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="d0540501-519a-45f1-b6f3-3af4af12e619" type="Normal" published="True">

<name>Process Exists</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<subsheet subsheetid="d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd" type="Normal" published="True">

<name>Window Exists</name>

<view>

<camerax>66</camerax>

<cameray>0</cameray>

<zoom>1</zoom>

</view>

</subsheet>

<stage stageid="644da7bd-f4b1-44af-af67-fcf711356e70" name="Start" type="Start">

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<onsuccess>9c3f9d10-70e5-4ac1-b987-48f7bd33f56d</onsuccess>

</stage>

<stage stageid="9c3f9d10-70e5-4ac1-b987-48f7bd33f56d" name="End" type="End">

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="3395d1a0-fcba-4944-9f09-7c218000fc1f" name="Stage1" type="ProcessInfo">

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

<references>

<reference>System.Data.dll</reference>

<reference>System.Xml.dll</reference>

<reference>System.Drawing.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Drawing</import>

</imports>

<language>visualbasic</language>

<globalcode></globalcode>

<code></code>

</stage>

<stage stageid="baccb181-ead3-4cec-abfa-94bb52412e67" name="Clean Up" type="SubSheetInfo">

<subsheetid>177b593b-1118-4903-802c-d939d96ab07d</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="7ab68dda-e80a-4e91-b3ca-b9bbeecb0ca0" name="Start" type="Start">

<subsheetid>177b593b-1118-4903-802c-d939d96ab07d</subsheetid>

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<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<onsuccess>3475f7ae-9063-4cbe-85b1-f8f5b0dc90dd</onsuccess>

</stage>

<stage stageid="3475f7ae-9063-4cbe-85b1-f8f5b0dc90dd" name="End" type="End">

<subsheetid>177b593b-1118-4903-802c-d939d96ab07d</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="27709e12-6519-4529-8d76-45eb27236042" name="Process Exists" type="SubSheetInfo">

<subsheetsid>d0540501-519a-45f1-b6f3-3af4af12e619</subsheetsid>

<narrative>Checks to see if a process with the given name exists.</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="541b75f3-1868-4536-9ed1-f0340805cf52" name="End" type="End">

<subsheetsid>d0540501-519a-45f1-b6f3-3af4af12e619</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Exists" narrative="True if the process exists" stage="Exists"/>

</outputs>

```
</stage>

<stage stageid="9e9ff0c4-2102-4dde-851b-568ecca9dd5c" name="Start" type="Start">

<subsheetid>d0540501-519a-45f1-b6f3-3af4af12e619</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Process Name" narrative="The name of the process" stage="Process Name"/>

</inputs>

<onsuccess>a65e5d31-3b82-44bd-85e8-42d30bf96cec</onsuccess>

</stage>

<stage stageid="2987b0b2-bcfe-44df-8d60-3cf441c023bf" name="Process Name" type="Data">

<subsheetid>d0540501-519a-45f1-b6f3-3af4af12e619</subsheetid>

<narrative>

</narrative>

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<displayy>-15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>
```

<private/>

<alwaysinit/>

</stage>

<stage stageid="a65e5d31-3b82-44bd-85e8-42d30bf96cec" name="Process Exists" type="Code">

<subsheetid>d0540501-519a-45f1-b6f3-3af4af12e619</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Process Name" expr="[Process Name]"/>

</inputs>

<outputs>

<output type="flag" name="Exists" stage="Exists"/>

</outputs>

<onsuccess>541b75f3-1868-4536-9ed1-f0340805cf52</onsuccess>

<code>

try

for each p as system.diagnostics.process in system.diagnostics.process.getprocessesbyname(Process_Na

exists = true

exit sub

next

```
catch e as exception
end try
```

```
exists = false</code>
```

```
</stage>
```

```
<stage stageid="d97aef89-802a-4cf4-b301-aaa31126177f" name="Exists" type="Data">
```

```
<subsheetsid>d0540501-519a-45f1-b6f3-3af4af12e619</subsheetsid>
```

```
<narrative>
```

```
</narrative>
```

```
<displayx>-195</displayx>
```

```
<displayy>15</displayy>
```

```
<displaywidth>150</displaywidth>
```

```
<displayheight>30</displayheight>
```

```
<font family="Tahoma" size="10" style="Regular" color="000000"/>
```

```
<datatype>flag</datatype>
```

```
<initialvalue>False</initialvalue>
```

```
<private/>
```

```
<alwaysinit/>
```

```
</stage>
```

```
<stage stageid="4adb19bc-3b13-48e7-9f69-079649e29bdc" name="Window Exists" type="SubSheetInfo">
```

```
<subsheetsid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsheetsid>
```

```
<narrative>Checks to see if a window with the given title exists.</narrative>
```

```
<displayx>-195</displayx>
```

```
<displayy>-105</displayy>
```

```
<displaywidth>150</displaywidth>
```

```
<displayheight>90</displayheight>
```


</stage>

<stage stageid="071bf0aa-e2d9-416a-813b-a48a15296bf7" name="Start" type="Start">

<subsheetid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Window Title" narrative="The title of the window to check" stage="Title"/>

<input type="flag" name="Use Wildcard Match" narrative="Set true to allow wildcards in the window title ma

</inputs>

<onsuccess>f04edf78-80f6-4e20-90ad-cea14b6a29ff</onsuccess>

</stage>

<stage stageid="94672b8d-1060-4a0a-91f9-0c96cd778618" name="End" type="End">

<subsheetid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Exists" narrative="True if the window exists" stage="Exists"/>

</outputs>

</stage>

<stage stageid="a7f48e3c-d61a-43dc-8546-646ae6b6c63b" name="End" type="End">

<subsHEETid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>90</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<outputs>

<output type="flag" name="Exists" narrative="True if the window exists" stage="Exists"/>

</outputs>

</stage>

<stage stageid="f04edf78-80f6-4e20-90ad-cea14b6a29ff" name="Window Exists" type="Code">

<subsHEETid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsHEETid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="Title" expr="[Title]"/>

<input type="flag" name="Wildcard" expr="[Wildcard]"/>

</inputs>

<outputs>

<output type="flag" name="Exists" stage="Exists"/>

</outputs>

<onsuccess>a7f48e3c-d61a-43dc-8546-646ae6b6c63b</onsuccess>

<code>try

if wildcard then

title = title.replace("*", ".*")

title = title.replace("?", "\w")

end if

exists = false

for each p as system.diagnostics.process in system.diagnostics.process.getprocesses()

if wildcard then

if system.text.regularexpressions.regex.ismatch(p.mainwindowtitle, title) then

exists = true

exit sub

end if

else

if p.mainwindowtitle.tolower = title.tolower then

exists = true

exit sub

end if

end if

next

catch e as exception

end try

</code>

</stage>

<stage stageid="911b7620-4b36-4299-a8fe-8be896ab0176" name="Exists" type="Data">

<subsheetid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsheetid>

<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>90</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="588fd5df-2393-49f6-8dec-e6205287dedf" name="Title" type="Data">

<subsheetid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsheetid>

<narrative>

```
</narrative>

<displayx>-195</displayx>

<displayy>-15</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="9df24660-8a75-41df-bf4c-69e3e18a14fa" name="Wildcard" type="Data">

<subsheetsid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsheetsid>

<narrative>

</narrative>

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<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<datatype>flag</datatype>

<initialvalue>False</initialvalue>

<private/>

<alwaysinit/>

</stage>

<stage stageid="cd594031-696a-419e-a6c2-36688addfb0f" name="Titles CSV" type="Data">

<subsheetsid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsheetsid>
```

```
<narrative>

</narrative>

<displayx>-195</displayx>

<displayy>135</displayy>

<displaywidth>150</displaywidth>

<displayheight>30</displayheight>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="3d281508-283c-4d63-81dd-ec07cb0c7697" name="Test" type="Calculation">

<subsheetid>d0540501-519a-45f1-b6f3-3af4af12e619</subsheetid>

<loginhibit/>

<narrative>

</narrative>

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<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<onsuccess>a65e5d31-3b82-44bd-85e8-42d30bf96cec</onsuccess>

<calculation expression="&quot;iexplore&quot;" stage="Process Name"/>

</stage>

<stage stageid="149317ed-25d5-4998-b8d2-9e8793a9cebe" name="Test" type="MultipleCalculation">

<subsheetid>d500b9f6-798c-40d6-a9b8-e0eb9b16d9cd</subsheetid>
```

<loginhibit/>

<narrative>

</narrative>

<displayx>165</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<onsuccess>f04edf78-80f6-4e20-90ad-cea14b6a29ff</onsuccess>

<steps>

<calculation expression=""* - Windows Internet Explorer"" stage="Title"/>

<calculation expression="True" stage="Wildcard"/>

</steps>

</stage>

<stage stageid="645b3fce-eacd-4d15-be94-499bf9d05f19" name="Sleep" type="SubSheetInfo">

<subsheetsid>1cfff60e-8c0b-4cec-af1e-645eaa20d5cd</subsheetsid>

<narrative>Pauses for a given time (in seconds).</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

<displayheight>90</displayheight>

</stage>

<stage stageid="f8281856-0b5c-4d54-bcb5-dd2aea75e3a6" name="Start" type="Start">

<subsheetsid>1cfff60e-8c0b-4cec-af1e-645eaa20d5cd</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>75</displayx>

<displayy>-105</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="number" name="Sleep Time (Seconds)" narrative="The time (in seconds) for which to sleep"

</inputs>

<onsuccess>bdd3e5d7-002e-4c18-b363-b1474b2b1868</onsuccess>

</stage>

<stage stageid="64257152-cf77-42ee-814a-16c63b20d83b" name="End" type="End">

<subsheetsid>1cfff60e-8c0b-4cec-af1e-645eaa20d5cd</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>75</displayx>

<displayy>120</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

</stage>

<stage stageid="fed99019-3566-4cf6-a7ab-82e05808dee6" name="Sleep Time (Seconds)" type="Data">

<subsheetsid>1cfff60e-8c0b-4cec-af1e-645eaa20d5cd</subsheetsid>

<narrative>

</narrative>

<displayx>150</displayx>

<dislay>-105</dislay>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<datatype>number</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="5bd29fe1-ab40-4cc5-b409-a4e444b93f51" name="Time Out1" type="WaitEnd">

<subsheetid>1cfff60e-8c0b-4cec-af1e-645eaa20d5cd</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>75</displayx>

<dislay>45</dislay>

<displaywidth>30</displaywidth>

<displayheight>30</displayheight>

<onsuccess>64257152-cf77-42ee-814a-16c63b20d83b</onsuccess>

<groupid>997b23cb-7481-4893-b115-278ce1c05c0a</groupid>

</stage>

<stage stageid="bdd3e5d7-002e-4c18-b363-b1474b2b1868" name="Wait1" type="WaitStart">

<subsheetid>1cfff60e-8c0b-4cec-af1e-645eaa20d5cd</subsheetid>

<loginhibit/>

<narrative>

</narrative>

```
<displayx>75</displayx>
<displayy>-30</displayy>
<displaywidth>30</displaywidth>
<displayheight>30</displayheight>
<font family="Tahoma" size="10" style="Regular" color="000000"/>
<groupid>997b23cb-7481-4893-b115-278ce1c05c0a</groupid>
<choices/>
<timeout>[Sleep Time (Seconds)]</timeout>
</stage>
</process>
<process name="Utility - HTTP" version="6.7.0.0" bpversion="6.2.0.2669" narrative="Communicates with v
<appdef>
<element name="Application Root">
<id>2ba17e26-49eb-43ed-84dd-c40e67e990b0</id>
<type>Application</type>
<basetype>Application</basetype>
<datatype>unknown</datatype>
<diagnose>False</diagnose>
</element>
</appdef>
<view>
<camerax>0</camerax>
<cameray>42</cameray>
<zoom version="2">1.25</zoom>
</view>
<preconditions/>
<endpoint narrative=""/>
```

<subsheet subsheetid="925e0261-2b2e-41ed-b555-4c5ccf8a00fc" type="CleanUp" published="True">

<name>Clean Up</name>

<view>

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<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="f3a55ad6-3bfa-4401-baa9-0e50afe42879" type="Normal" published="True">

<name>Post</name>

<view>

<camerax>109</camerax>

<cameray>56</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="ecff5a78-99b1-4ecb-a356-a075c487ef71" type="Normal" published="True">

<name>Post JSON</name>

<view>

<camerax>28</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="d30e8f45-db72-40d2-9f17-9700006fe152" type="Normal" published="True">

<name>HTTP Request</name>

<view>

<camerax>50</camerax>

<cameray>47</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="519a0dc7-b254-478b-b2ed-c7883124e31b" type="Normal" published="True">

<name>Load Certificate</name>

<view>

<camerax>0</camerax>

<cameray>84</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<subsheet subsheetid="704436d5-f51b-4369-b763-a4fdc6e894c2" type="Normal" published="True">

<name>URL Encode</name>

<view>

<camerax>0</camerax>

<cameray>0</cameray>

<zoom version="2">1.25</zoom>

</view>

</subsheet>

<stage stageid="bee831af-f964-4218-87f3-d3378e2eab10" name="Start" type="Start">

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-105</displayy>

```
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<onsuccess>071f13b7-de3d-4625-9498-9da634d452b4</onsuccess>

</stage>

<stage stageid="11e111be-101c-4df7-9d5c-910a10c02e2d" name="End" type="End">

<loginhibit/>

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</narrative>

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<references>

<reference>System.Data.dll</reference>

<reference>System.Web.dll</reference>

<reference>System.Xml.dll</reference>
```

```
<reference>System.Web.dll</reference>

<reference>Newtonsoft.Json.dll</reference>

<reference>System.Net.Http.dll</reference>

</references>

<imports>

<import>System</import>

<import>System.Net</import>

<import>System.Data</import>

<import>System.Security.Cryptography.X509Certificates</import>

<import>System.Collections.Generic</import>

<import>System.Web</import>

<import>System.Media</import>

<import>System.IO</import>

<import>System.Text</import>

<import>Newtonsoft.Json</import>

<import>System.Net.Http.Headers</import>

</imports>

<language>visualbasic</language>

<globalcode>

</globalcode>

<code>Private m_Certificates As New Dictionary(Of String, X509Certificate2)

Private Function GetCertificate(ByVal subject As String) As X509Certificate2

Dim store As New X509Store(StoreName.My, StoreLocation.LocalMachine)

Try

store.Open(OpenFlags.ReadOnly)
```

```
Dim certs As X509Certificate2Collection = store.Certificates.Find(X509FindType.FindBySubjectName, sub,
```

```
For Each cert As X509Certificate2 In certs
```

```
Return cert
```

```
Next
```

```
Finally
```

```
store.Close()
```

```
End Try
```

```
Return Nothing
```

```
End Function
```

```
Function ToDictionary(webResponse As HttpWebResponse ) As Dictionary(Of String, String)
```

```
Dim dict = New Dictionary(Of String, String)()
```

```
For index As Integer = 0 To webResponse.Headers.Count - 1
```

```
If webResponse.Headers.Keys.Count -1 >= index Then
```

```
dict.Add(webResponse.Headers.Keys(index), webResponse.Headers(index) )
```

```
End if
```

```
Next
```

```
Return dict
```

```
End Function</code>
```

```
</stage>

<stage stageid="b48af877-43b3-4056-b8b4-88bac82a5c80" name="Clean Up" type="SubSheetInfo">

<subsheetid>925e0261-2b2e-41ed-b555-4c5ccf8a00fc</subsheetid>

<narrative>

</narrative>

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<loginhibit/>

<narrative>

</narrative>

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<onsuccess>f1054fe8-46c8-42ab-b236-5b07592ec5eb</onsuccess>

</stage>

<stage stageid="f1054fe8-46c8-42ab-b236-5b07592ec5eb" name="End" type="End">

<subsheetid>925e0261-2b2e-41ed-b555-4c5ccf8a00fc</subsheetid>

<loginhibit/>

<narrative>
```


</narrative>

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</stage>

<stage stageid="ab202953-451b-4e7c-8cd5-c050e06e286a" name="Post" type="SubSheetInfo">

<subsheetsid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetsid>

<narrative>Sends a message to HTTP endpoint using the POST method. The collection data is encoded u

<displayx>-195</displayx>

<displayy>-105</displayy>

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</stage>

<stage stageid="e2777b38-8eba-4a04-a611-28bcd6c4add6" name="Start" type="Start">

<subsheetsid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>-30</displayy>

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<displayheight>30</displayheight>

<inputs>

```
<input type="text" name="Address URL " narrative="The URL to send the HTTP Post data to" stage="Address URL"/>
<input type="collection" name="Post Data" narrative="A collection of values to send as Post data" stage="Post Data"/>
<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" stage="Use Proxy"/>
<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" stage="Proxy URL"/>
<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" stage="Proxy Username"/>
<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" stage="Proxy Password"/>
<input type="collection" name="Headers" narrative="OPTIONAL: HTTP Headers" stage="Headers"/>
<input type="text" name="Accept" narrative="OPTIONAL: Accept" stage="Accept"/>

</inputs>

<onsuccess>e42b0caa-40c1-4a89-a873-f6977581053b</onsuccess>

</stage>

<stage stageid="f51a79a9-1213-484c-bedc-065f44051a02" name="End" type="End">

<subsheetsid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetsid>

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<narrative>

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Result"/>
<output type="text" name="Post Headers" narrative="The headers related to the Post query" stage="Result Headers"/>

</outputs>

</stage>

<stage stageid="14154308-012d-47e4-a707-8ca80b73651e" name="new" type="Note">
```

<subsheetid>925e0261-2b2e-41ed-b555-4c5ccf8a00fc</subsheetid>

<narrative>Clean Up Page

This is an optional page where you might choose to perform some finalisation (or "cleanup") tasks as your

The cleanup action will be called automatically immediately after closing your business object at the end of

You will not be able to call this action from a business process, nor will it be called at any other time than b

<displayx>-180</displayx>

<displayy>60</displayy>

<displaywidth>180</displaywidth>

<displayheight>230</displayheight>

</stage>

<stage stageid="4228ae7a-9bb3-4de4-9bbf-00e32d925ecf" name="new" type="Note">

<narrative>Initialise Page

This is an optional page where you might choose to perform some initialisation tasks after your business of

The initialise action will be called automatically immediately after loading your business object.

You will not be able to call this action from a business process, nor will it be called at any other time than a

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<displayheight>230</displayheight>

</stage>

<stage stageid="e42b0caa-40c1-4a89-a873-f6977581053b" name="Get Body" type="Code">

<subsheetid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetid>

<loginhibit/>

<narrative>

</narrative>

<displayx>15</displayx>

<displayy>15</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="collection" name="postData" expr="[Post Data]"/>

</inputs>

<outputs>

<output type="text" name="body" stage="Body"/>

</outputs>

<onsuccess>e9085eba-5f15-4b65-91ed-41abf7c6917f</onsuccess>

<code>Dim sb As New System.Text.StringBuilder

For Each r As DataRow In postData.Rows

Dim first As Boolean = True

For Each c As DataColumn In postData.Columns

If first Then

first = False

Else

sb.Append("&";"

End If

```
Dim columnName As String = c.ColumnName
```

```
Dim encodedCol As String = System.Web.HttpUtility.UrlEncode(columnName)
```

```
sb.Append(encodedCol)
```

```
sb.Append("=")
```

```
Dim val As String = r(columnName).ToString
```

```
Dim encodedVal As String = System.Web.HttpUtility.UrlEncode(val)
```

```
sb.Append(encodedVal)
```

```
Next
```

```
Exit For 'Only one row is allowed
```

```
Next
```

```
body=sb.ToString()
```

```
</code>
```

```
</stage>
```

```
<stage stageid="1c58d0fb-9a9b-4d2f-861f-5c22ab835c31" name="Result" type="Data">
```

```
<subsheetsid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetsid>
```

```
<narrative>
```

```
</narrative>
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<private/>
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<alwaysinit/>
```

</stage>

<stage stageid="b98abed4-9669-476c-87d9-3f485683d049" name="Address URL" type="Data">

<subsHEETid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsHEETid>

<narrative>

</narrative>

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<datatype>text</datatype>

<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="f4c2a5eb-36de-4904-a963-a8513b7e8840" name="Post Data" type="Collection">

<subsHEETid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsHEETid>

<narrative>

</narrative>

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<displayheight>30</displayheight>

<datatype>collection</datatype>

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<alwaysinit/>

</stage>

<stage stageid="071f13b7-de3d-4625-9498-9da634d452b4" name="Setup" type="Code">

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<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<onsuccess>11e111be-101c-4df7-9d5c-910a10c02e2d</onsuccess>

<code>System.Net.ServicePointManager.Expect100Continue = False</code>

</stage>

<stage stageid="f6ed43b3-714e-4161-b44b-b60490592281" name="Proxy Password" type="Data">

<subsheetid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetid>

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</initialvalueenc>

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<alwaysinit/>

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</stage>

<stage stageid="bcedbed1-3ed7-42d7-8f16-7e2071c3e187" name="Proxy Username" type="Data">

<subsheetsid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetsid>

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</stage>

<stage stageid="66afe5b7-37e4-4ed7-a9fc-a78e1ab8890c" name="Proxy URL" type="Data">

<subsheetsid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetsid>

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<private/>
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<alwaysinit/>

</stage>

<stage stageid="be7856fe-4027-4226-8caa-851bb6e7df21" name="Use Proxy" type="Data">

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<private/>

<alwaysinit/>

</stage>

<stage stageid="38c313e6-bc0d-49e5-a6ab-4042a0682d3d" name="Post JSON" type="SubSheetInfo">

<subsheetid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetid>

<narrative>Sends a message to HTTP endpoint using the POST method. The action expects a raw string a

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</stage>

<stage stageid="37166627-b66b-4a9c-a321-539933de2123" name="End" type="End">

<subsheetid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetid>

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<narrative>

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<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Result"/>

<output type="text" name="Result Headers" narrative="The headers related to the Post Query" stage="Res

</outputs>

</stage>

<stage stageid="878a70a1-d658-4563-b27c-245f947b74be" name="Result" type="Data">

<subsheetsid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetsid>

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</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>
```

```
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<subsheetsid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetsid>

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</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="4956e14f-001c-4406-a401-38c63ff06696" name="Start" type="Start">

<subsheetsid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetsid>

<loginhibit/>

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<displayheight>30</displayheight>

<font family="Tahoma" size="10" style="Regular" color="000000"/>

<inputs>

<input type="text" name="Address URL" narrative="The URL to send the HTTP Post data to" stage="Address">

<input type="text" name="JSON" narrative="The JSON to send" stage="JSON"/>
```

```
<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" stage="Use Proxy"/>
<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" stage="Proxy URL"/>
<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" stage="Proxy Us
<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" stage="Pro
<input type="collection" name="Headers" narrative="OPTIONAL: Headers Collection" stage="Headers"/>

</inputs>

<onsuccess>6b571f09-555c-45a8-9475-957d41cafb24</onsuccess>

</stage>

<stage stageid="696696c8-af04-4075-aea0-a8024e2431fe" name="Address URL" type="Data">

<subsheetsid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetsid>

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</narrative>

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<alwaysinit/>

</stage>

<stage stageid="582df200-7287-4dc1-a9a2-6c9e09276f77" name="Proxy Password" type="Data">

<subsheetsid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetsid>

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</narrative>

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</initialvalueenc>

<private/>

<alwaysinit/>

</stage>

<stage stageid="924eb1dd-b782-4f71-82b6-9923ea0093ec" name="Proxy Username" type="Data">

<subsheetid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetid>

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</stage>

<stage stageid="ed09a5ed-6c7b-4dd3-9bf0-8df61da66ea3" name="Proxy URL" type="Data">

<subsheetid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetid>

<narrative>
```

```
</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="5e35c8d6-3f97-4ae4-8566-35fb0981e145" name="Use Proxy" type="Data">

<subsheetsid>ecff5a78-99b1-4ecb-a356-a075c487ef71</subsheetsid>

<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="4a9fcdf1-4310-45cb-a775-ebfadc75ac8a" name="Headers" type="Collection">

<subsheetsid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetsid>
```

<narrative>

</narrative>

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<datatype>collection</datatype>

<private/>

<alwaysinit/>

</stage>

<stage stageid="9e64259d-1a91-444b-8620-b8cd186832d1" name="Accept" type="Data">

<subsheetsid>f3a55ad6-3bfa-4401-baa9-0e50afe42879</subsheetsid>

<narrative>

</narrative>

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<initialvalue/>

<private/>

<alwaysinit/>

</stage>

<stage stageid="58e7a470-3ec3-4033-bb19-0fee1bdcaaed" name="HTTP Request" type="SubSheetInfo">

<subsheetsid>d30e8f45-db72-40d2-9f17-9700006fe152</subsheetsid>

<narrative>Sends a message to HTTP endpoint using the specified HTTP method and content-type</narrative>

<displayx>-195</displayx>

<displayy>-105</displayy>

<displaywidth>150</displaywidth>

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</stage>

<stage stageid="d0a11dcd-f002-46b5-aff6-1026c3be2da8" name="End" type="End">

<subsheetsid>d30e8f45-db72-40d2-9f17-9700006fe152</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>0</displayx>

<displayy>75</displayy>

<displaywidth>60</displaywidth>

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<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Result"/>

<output type="text" name="Headers as Json" narrative="The returned headers response as Json" stage="I">

</outputs>

</stage>

<stage stageid="1fa7def4-c6a8-4325-9bc8-2c6027c0b8e8" name="HTTP Request" type="Code">

<subsheetsid>d30e8f45-db72-40d2-9f17-9700006fe152</subsheetsid>

<loginhibit/>

<narrative>

</narrative>

<displayx>0</displayx>

<displayy>0</displayy>

<displaywidth>60</displaywidth>

<displayheight>30</displayheight>

<inputs>

<input type="text" name="addressURL" expr="[Address URL]"/>

<input type="text" name="body" expr="[Body]"/>

<input type="text" name="contentType" expr="[Content Type]"/>

<input type="text" name="method" expr="[Method]"/>

<input type="text" name="proxyURL" expr="[Proxy URL]"/>

<input type="flag" name="useProxy" expr="[Use Proxy]"/>

<input type="text" name="proxyUsername" expr="[Proxy Username]"/>

<input type="password" name="proxyPassword" expr="[Proxy Password]"/>

<input type="collection" name="headers" expr="[Headers]"/>

<input type="text" name="accept" expr="[Accept]"/>

<input type="text" name="username" expr="[Username]"/>

<input type="password" name="password" expr="[Password]"/>

<input type="text" name="certID" expr="[Certificate ID]"/>

<input type="flag" name="forcePreAuth" expr="[Force Pre Authorization]"/>

<input type="flag" name="usingFile" expr="[File]"/>

</inputs>

<outputs>

<output type="text" name="resultData" stage="Result"/>

<output type="text" name="resultHeadersJson" stage="ResultHeadersJson"/>

</outputs>

<onsuccess>d0a11dcd-f002-46b5-aff6-1026c3be2da8</onsuccess>

<code>Try

Dim request As WebRequest = WebRequest.Create(addressURL)

If forcePreAuth Then

'Sometimes a web server will require the authorisation header in the initial request

'In which case we have to add the basic authorization header manually.

Dim bytes() As Byte = System.Text.Encoding.UTF8.GetBytes(String.Format("{0}:{1}",username,password))

Dim base64 As String = Convert.ToBase64String(bytes)

request.Headers.Add("Authorization", "Basic " & amp; base64)

Else

If Not String.IsNullOrEmpty(username) AndAlso Not String.IsNullOrEmpty(password) Then

request.Credentials = New NetworkCredential(username,password)

End If

End If

If useProxy Then

Dim proxyURI As New Uri(proxyURL)

Dim proxy As New WebProxy(proxyURI, True)

Dim proxyCred As New NetworkCredential(proxyUsername, proxyPassword)

Dim credCache As New CredentialCache()

credCache.Add(proxyURI, "Basic", proxyCred)

proxy.UseDefaultCredentials = False

proxy.Credentials = credCache

request.Proxy = proxy

End If

request.Method = method

```
request.ContentType = contentType
```

```
Dim httpRequest As HttpWebRequest = TryCast(request, HttpWebRequest)
```

```
If httpRequest IsNot Nothing Then
```

```
If Not String.IsNullOrEmpty(accept) Then
```

```
httpRequest.Accept = accept
```

```
End If
```

```
If Not String.IsNullOrEmpty(certID) Then
```

```
httpRequest.ClientCertificates.Add(m_Certificates(certID))
```

```
End If
```

```
End If
```

```
For Each r As DataRow In headers.Rows
```

```
For Each c As DataColumn In headers.Columns
```

```
Dim columnName As String = c.ColumnName
```

```
Dim val As String = r(columnName).ToString
```

```
request.Headers.Add(columnName,val)
```

```
Next
```

```
Exit For 'Only one row is allowed
```

```
Next
```

```
' Normal stream writer, we aren't encoding a file etc.
```

```
If Not usingFile Then
```

```
If Not String.IsNullOrEmpty(body) Then
```

```
Dim requestStream As IO.Stream = request.GetRequestStream()
```

```
Using sw As New IO.StreamWriter(requestStream, New Text.UTF8Encoding(False))
```

```
sw.Write(body)
```

```
End Using
```

```
End If
```

```
Else If usingFile Then
```

```
' Prep the request body
```

```
Dim byteArray = File.ReadAllBytes( body )
```

```
Dim requestStream As IO.Stream = request.GetRequestStream()
```

```
requestStream.Write(byteArray,0, byteArray.Length)
```

```
End If
```

```
Using response As WebResponse = request.GetResponse()
```

```
resultHeadersJson = JsonConvert.SerializeObject(ToDictionary(response))
```

```
Dim responseStream As IO.Stream = response.GetResponseStream()
```

```
Dim sr As New IO.StreamReader(responseStream)
```

```
resultData = sr.ReadToEnd()
```

```
End Using
```

```
Catch e As WebException
```

```
Using response As WebResponse = e.Response
```

```
Dim httpResponse As HttpWebResponse = CType(response, HttpWebResponse)
```

```
Using data As Stream = response.GetResponseStream()
```

```
Using reader = New StreamReader(data)
```

```
Dim text As String = reader.ReadToEnd()
```

```
resultData = resultData + text
```

```
End Using
```

End Using

End Using

End Try</code>

</stage>

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<private/>

<alwaysinit/>

</stage>

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```
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<inputs>

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```

```
<input type="text" name="Body" narrative="The body text of the HTTP request" stage="Body"/>
<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" stage="Use Proxy"/>
<input type="text" name="Content Type" narrative="The content type of the HTTP request." stage="Content Type"/>
<input type="text" name="Method" narrative="The method of the HTTP request." stage="Method"/>
<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" stage="Proxy URL"/>
<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" stage="Proxy Username"/>
<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" stage="Proxy Password"/>
<input type="collection" name="Headers" narrative="OPTIONAL: Headers" stage="Headers"/>
<input type="text" name="Accept" narrative="OPTIONAL: Accept" stage="Accept"/>
<input type="text" name="Username" narrative="OPTIONAL: Basic Authentication username" stage="User Name"/>
<input type="password" name="Password" narrative="OPTIONAL: Basic Authentication password" stage="Password"/>
<input type="text" name="Certificate ID" narrative="OPTIONAL: The id of the client authentication certificate" stage="Certificate ID"/>
<input type="flag" name="Force Pre Authorization" narrative="OPTIONAL: Force the request to send the authorization header" stage="Force Pre Authorization"/>
<input type="flag" name="File URL" narrative="OPTIONAL: Is the JSON Body a file instead?" stage="File URL"/>
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</stage>

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<stage stageid="8ef02e3a-8214-4163-b44d-a5081ed8b9e4" name="Proxy Username" type="Data">

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</stage>

<stage stageid="5c4cc5f6-0531-4375-b9c1-3fcb529dde9b" name="Use Proxy" type="Data">

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<inputs>

<input type="text" name="Address URL" narrative="The URL to send the HTTP data to" expr="[Address URL]">

<input type="text" name="Body" narrative="The body text of the HTTP request" expr="[JSON]"/>

<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" expr="[Use Proxy]"/>

<input type="text" name="Content Type" narrative="The content type of the HTTP request." expr=""Content Type""/>

<input type="text" name="Method" narrative="The method of the HTTP request." expr=""Method""/>

<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" expr="[Proxy URL]"/>

<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" expr="[Proxy Username]"/>

<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" expr="[Proxy Password]"/>

```
<input type="collection" name="Headers" narrative="OPTIONAL: Headers" expr="[Headers]"/>
<input type="text" name="Accept" narrative="OPTIONAL: Accept" expr=""/>
<input type="text" name="Username" narrative="OPTIONAL: Basic Authentication username" expr=""/>
<input type="password" name="Password" narrative="OPTIONAL: Basic Authenction password" expr=""/>
<input type="text" name="Certificate ID" narrative="OPTIONAL: The id of the client authentication certificat
<input type="flag" name="Force Pre Authorization" narrative="OPTIONAL: Force the request to send the a
<input type="flag" name="File URL" narrative="OPTIONAL: Is the JSON Body a file instead?" expr=""/>
</inputs>

<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Result"/>
<output type="text" name="Headers as Json" narrative="The returned headers response as Json" stage="I
</outputs>

<onsuccess>37166627-b66b-4a9c-a321-539933de2123</onsuccess>

<processid>d30e8f45-db72-40d2-9f17-9700006fe152</processid>

</stage>

<stage stageid="33b3447c-a55e-4af3-be35-6cb5624d6a4f" name="Headers" type="Collection">

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<alwaysinit/>
```

```
</stage>

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<stage stageid="23c8dd77-277a-4aac-8df7-31c951626abd" name="Body" type="Data">

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<private/>
```

<alwaysinit/>

</stage>

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<inputs>

<input type="text" name="Address URL" narrative="The URL to send the HTTP data to" expr="[Address URL]"/>

<input type="text" name="Body" narrative="The body text of the HTTP request" expr="[Body]"/>

<input type="flag" name="Use Proxy" narrative="Set true if you need to use a proxy" expr="[Use Proxy]"/>

<input type="text" name="Content Type" narrative="The content type of the HTTP request." expr="&q" />

<input type="text" name="Method" narrative="The method of the HTTP request." expr="&quot;POST&" />

<input type="text" name="Proxy URL" narrative="OPTIONAL: The proxy url" expr="[Proxy URL]"/>

<input type="text" name="Proxy Username" narrative="OPTIONAL: The proxy username" expr="[Proxy Username]"/>

<input type="password" name="Proxy Password" narrative="OPTIONAL: The proxy password" expr="[Proxy Password]"/>

<input type="collection" name="Headers" narrative="OPTIONAL: Headers" expr="[Headers]"/>

<input type="text" name="Accept" narrative="OPTIONAL: Accept" expr="[Accept]"/>

<input type="text" name="Username" narrative="OPTIONAL: Basic Authentication username" expr=""/>

<input type="password" name="Password" narrative="OPTIONAL: Basic Authentication password" expr=""/>

<input type="text" name="Certificate ID" narrative="OPTIONAL: The id of the client authentication certificate" />

<input type="flag" name="Force Pre Authorization" narrative="OPTIONAL: Force the request to send the authentication information" />

```
<input type="flag" name="File URL" narrative="OPTIONAL: Is the JSON Body a file instead?" expr=""/>

</inputs>

<outputs>

<output type="text" name="Result" narrative="The result from the Post query." stage="Result"/>

<output type="text" name="Headers as Json" narrative="The returned headers response as Json" stage="I

</outputs>

<onsuccess>f51a79a9-1213-484c-bedc-065f44051a02</onsuccess>

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</stage>

<stage stageid="4bd01e67-49a4-4082-be0d-df1bb9cecb13" name="Username" type="Data">

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<stage stageid="3cff8803-c15f-4ab4-a032-d0afb9fa20ae" name="Start" type="Start">

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8962b858-f6e2-413c-9ceb-3d80dee88de2

End

519a0dc7-b254-478b-b2ed-c7883124e31b

$$15$$

$$15$$

$$60$$

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Filename

519a0dc7-b254-478b-b2ed-c7883124e31b

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<stage stageid="5f0ec822-a1c0-4b6b-91ba-739b0b2762b8" name="Subject" type="Data">

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<loginhibit/>

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<inputs>

<input type="text" name="filename" expr="[Filename]"/>

<input type="password" name="password" expr="[Password]"/>

<input type="text" name="subject" expr="[Subject]"/>

</inputs>

<outputs>

<output type="text" name="thumbprint" stage="Certificate ID"/>

</outputs>

<onsuccess>17fddf56-07f2-4942-8515-e1b183458a7f</onsuccess>

<code>Dim cert As X509Certificate2 = Nothing

If Not String.IsNullOrEmpty(filename) Then

cert = New X509Certificate2(filename,password)

End If

If Not String.IsNullOrEmpty(subject) Then

cert=GetCertificate(subject)

End If

```
thumbprint = cert.Thumbprint
```

```
m_Certificates.Add(thumbprint,cert)
```

```
</code>
```

```
</stage>
```

```
<stage stageid="745e7557-7761-4078-8ff7-334b6873f126" name="Certificate ID" type="Data">
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</stage>

<stage stageid="5de144f5-aa91-46e0-8f9c-ac8495d2ab0c" name="Force Pre Authorization" type="Data">

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<narrative>

</narrative>

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<input type="text" name="URL" narrative="The URL to encode" stage="URL"/>

</inputs>

<onsuccess>d0c241bd-a746-44fc-9fdd-5f73a4c55bf9</onsuccess>

</stage>

<stage stageid="0d4cffb2-879f-49d1-b815-43da8446a39c" name="End" type="End">

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<outputs>

<output type="text" name="URL" narrative="The encoded URL" stage="URL"/>

</outputs>

</stage>

<stage stageid="d0c241bd-a746-44fc-9fdd-5f73a4c55bf9" name="Encode URL" type="Code">

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<inputs>

<input type="text" name="URL " expr="[URL]"/>

</inputs>

<outputs>

<output type="text" name="Encoded URL " stage="URL"/>

</outputs>

<onsuccess>0d4cffb2-879f-49d1-b815-43da8446a39c</onsuccess>

<code>

Encoded_URL = HttpUtility.UrlEncode(URL)</code>

</stage>

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</stage>

</process>

</Root>
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