



Orders Management

Project name: Orders Management

Package version: 1.0.8

Version of document	Date	Description
1	22/03/2021	Document created

TABLE OF CONTENTS

INTRODUCTION	4
IMPORTANT RECOMMANDATION	5
General	5
Reuse the sample as a new project.....	5
DESCRIPTION	6
Settings	6
<i>Environment variables</i>	6
<i>Dependent packages</i>	6
Captures	6
<i>Browse Orders</i>	6
Datatypes.....	8
<i>Datatype Order Status</i>	8
Automations	8
<i>Automation Collect Orders Infos</i>	8
<i>Automation Create Order Workbook</i>	9
<i>Automation Browse Order Files</i>	11
VERSION	12
SAP Build Process Automation.....	12
Target application	12
PREREQUISITES.....	13
Global setup	13
Specific steps to follow before launching the agent	13
EXPECTED OUTPUT	14

INTRODUCTION

This document describes the SAP Build Process Automation sample **Orders Management** and provides the following information:

- Description (functional and technical)
- Version used to generate this sample

It also contains information on prerequisites, such as the steps to follow before launching the agent.

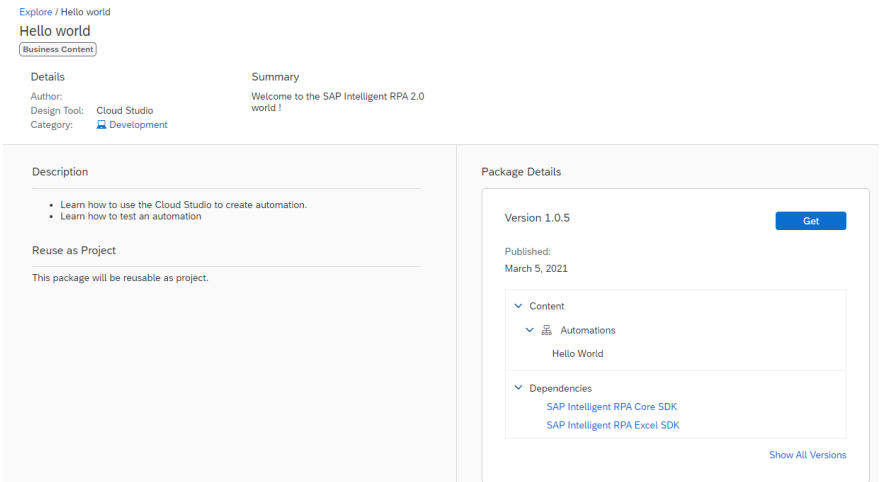
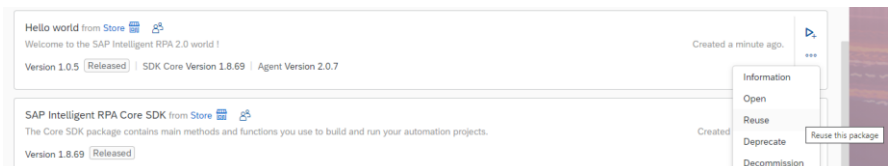
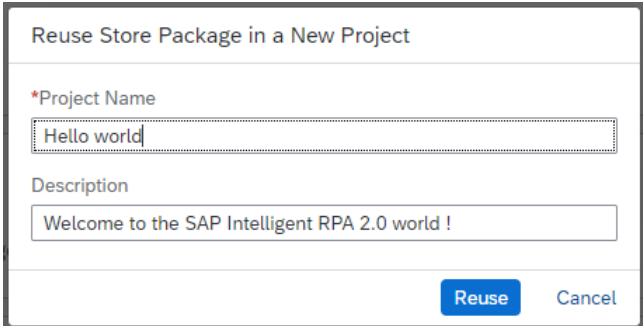
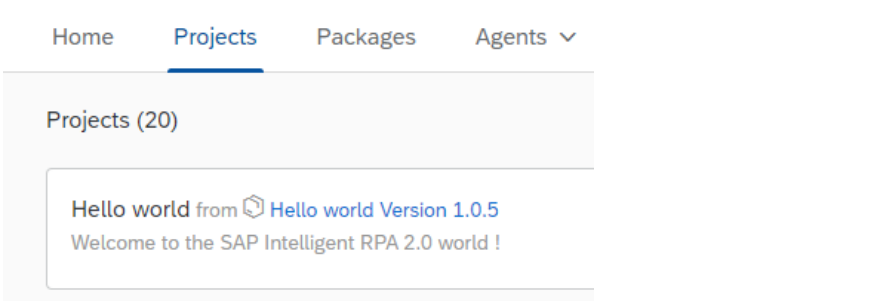
IMPORTANT RECOMMENDATION

General

To use this sample, you need to have a basic knowledge and understanding of SAP Build Process Automation tool. At the very least you need to know how to build an automation, add and modify activities and generate a package.

Reuse the sample as a new project

Note: screenshot might display a different name than the one of this sample.

<p>From the Cloud Factory, open the Store tab and select the sample you want to retrieve.</p> <p>Click on the Get button.</p>	
<p>Once the package is retrieved, open the Packages tab of the Cloud Factory.</p> <p>Click on the Options button of the package you just retrieved and select the option Reuse.</p>	
<p>Set a name for the project to be created.</p>	
<p>Open the project that has just been created.</p>	
<p>If needed, update the content of this project, and generate a new package from it.</p>	

You need to execute this procedure to be able to open the project and see all its content (the captured applications, the declared items, the automations, etc.).

DESCRIPTION

This package contains captures, datatype and automations that are described below. See chapter

Settings

This section describes the settings of the project such as environment variables or dependent packages that are used in the automation.

Environment variables

Name	Description	Type
folderPath	Path to folder containing all the order excel files	String
template	Path to file template.xlsx Used in Create Order Workbook	String

Dependent packages

N/A

Captures

This section describes the captures which were made to pilot the application in this sample. It will also describe the different methods which were used to capture the pages and declare the items.

Browse Orders

Type: WEB

Framework: sapui5

Screen	Description
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Main List	<p>Home page of the application, a click on each leads to the order's details</p> <p>Orders (10)</p> <div style="border: 1px solid #ccc; padding: 10px;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 5px;"> <input type="text" value="Search"/> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 5px;"> Order 7991 Berglunds snabbköp Shipped: Nov 25, 2016 </td> <td style="text-align: right; padding: 5px;"> 11/21/16 In time </td> </tr> <tr> <td style="padding: 5px;"> Order 7918 Tortuga Restaurante Shipped: Sep 26, 2016 </td> <td style="text-align: right; padding: 5px;"> 9/18/16 Urgent </td> </tr> <tr> <td style="padding: 5px;"> Order 7375 Around the Horn Shipped: Oct 14, 2016 </td> <td style="text-align: right; padding: 5px;"> 10/6/16 In time </td> </tr> <tr> <td style="padding: 5px;"> Order 7311 Alfreds Futterkiste Shipped: Nov 25, 2016 </td> <td style="text-align: right; padding: 5px;"> 11/21/16 In time </td> </tr> <tr> <td style="padding: 5px;"> Order 6858 Tortuga Restaurante Shipped: Nov 14, 2016 </td> <td style="text-align: right; padding: 5px;"> 11/13/16 In time </td> </tr> </tbody> </table> </div>	Order 7991 Berglunds snabbköp Shipped: Nov 25, 2016	11/21/16 In time	Order 7918 Tortuga Restaurante Shipped: Sep 26, 2016	9/18/16 Urgent	Order 7375 Around the Horn Shipped: Oct 14, 2016	10/6/16 In time	Order 7311 Alfreds Futterkiste Shipped: Nov 25, 2016	11/21/16 In time	Order 6858 Tortuga Restaurante Shipped: Nov 14, 2016	11/13/16 In time
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Order Details	<p>Opens at the click on an order, displays the orders details and delivery address</p> <div style="border: 1px solid #ccc; padding: 10px;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 5px;"> <input type="text" value="Search"/> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 5px;"> Order 7991 11/21/16 Berglunds snabbköp In time Shipped: Nov 25, 2016 </td> </tr> <tr> <td style="padding: 5px;"> Order 7918 9/18/16 Tortuga Restaurante Urgent Shipped: Sep 26, 2016 </td> </tr> <tr> <td style="padding: 5px;"> Order 7375 10/6/16 Around the Horn In time Shipped: Oct 14, 2016 </td> </tr> <tr> <td style="padding: 5px;"> Order 7311 11/21/16 Alfreds Futterkiste In time Shipped: Nov 25, 2016 </td> </tr> <tr> <td style="padding: 5px;"> Order 6858 11/13/16 Tortuga Restaurante In time Shipped: Nov 14, 2016 </td> </tr> <tr> <td style="padding: 5px;"> Order 6368 11/13/16 Alfreds Futterkiste In time Shipped: Nov 19, 2016 </td> </tr> <tr> <td style="padding: 5px;"> Order 6189 11/28/16 Berglunds snabbköp In time Shipped: Nov 30, 2016 </td> </tr> </tbody> </table> </div> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <div style="border-bottom: 1px solid #ccc; padding-bottom: 5px;"> Order 7991 </div> <p>Customer: Berglunds snabbköp Price: 410,418.22 EUR Ordered: Nov 21, 2016 Shipped: Nov 25, 2016</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <p style="text-align: center;">Shipping Address</p> <p>Name: ShipEx Street: 5th Avenue 610 ZIP Code / City: 10020 New York Region: New Jersey Country: United States of America</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p>Line Items (5)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Product</th> <th>Unit Price</th> <th>Quantity</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Louisiana Hot Spiced Okra 4663</td> <td>9.31 EUR</td> <td>9491</td> <td>88,361.21 EUR</td> </tr> <tr> <td>Tunnbröd 5672</td> <td>14.77 EUR</td> <td>547</td> <td>8,079.19 EUR</td> </tr> <tr> <td>Sir Rodney's Marmalade 4008</td> <td>47.10 EUR</td> <td>5780</td> <td>272,238.00 EUR</td> </tr> <tr> <td>Camembert Pierrot 9505</td> <td>3.07 EUR</td> <td>3239</td> <td>9,943.73 EUR</td> </tr> <tr> <td>Mascarpone Fabioli 8486</td> <td>6.31 EUR</td> <td>5039</td> <td>31,796.09 EUR</td> </tr> </tbody> </table> </div> </div>	Order 7991 11/21/16 Berglunds snabbköp In time Shipped: Nov 25, 2016	Order 7918 9/18/16 Tortuga Restaurante Urgent Shipped: Sep 26, 2016	Order 7375 10/6/16 Around the Horn In time Shipped: Oct 14, 2016	Order 7311 11/21/16 Alfreds Futterkiste In time Shipped: Nov 25, 2016	Order 6858 11/13/16 Tortuga Restaurante In time Shipped: Nov 14, 2016	Order 6368 11/13/16 Alfreds Futterkiste In time Shipped: Nov 19, 2016	Order 6189 11/28/16 Berglunds snabbköp In time Shipped: Nov 30, 2016	Product	Unit Price	Quantity	Total	Louisiana Hot Spiced Okra 4663	9.31 EUR	9491	88,361.21 EUR	Tunnbröd 5672	14.77 EUR	547	8,079.19 EUR	Sir Rodney's Marmalade 4008	47.10 EUR	5780	272,238.00 EUR	Camembert Pierrot 9505	3.07 EUR	3239	9,943.73 EUR	Mascarpone Fabioli 8486	6.31 EUR	5039	31,796.09 EUR
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Screen	Description																								
Processor Details	<p>Displays the order's processor's details</p> <p>The screenshot shows a web interface for 'Processor Details'. On the left, there is a list of 10 orders with columns for order number, date, and status. The selected order is Order 7991, dated 11/21/16, with status 'In time'. The main area displays details for Order 7991, including customer information (Berglunds snabbköp), price (410,418.22 EUR), and shipping date (Nov 25, 2016). Below this is 'Processor Information' for Andrew Fuller, Designer, with contact details. At the bottom, there is a table of 'Line Items (5)' with columns for Product, Unit Price, Quantity, and Total.</p> <table border="1"> <caption>Line Items (5)</caption> <thead> <tr> <th>Product</th> <th>Unit Price</th> <th>Quantity</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Louisiana Hot Spiced Okra 4663</td> <td>9.31 EUR</td> <td>9491</td> <td>88,361.21 EUR</td> </tr> <tr> <td>Tunnbröd 5672</td> <td>14.77 EUR</td> <td>547</td> <td>8,079.19 EUR</td> </tr> <tr> <td>Sir Rodney's Marmalade 4008</td> <td>47.10 EUR</td> <td>5780</td> <td>272,238.00 EUR</td> </tr> <tr> <td>Camembert Pierrot 9505</td> <td>3.07 EUR</td> <td>3239</td> <td>9,943.73 EUR</td> </tr> <tr> <td>Mascarpone Fabioli 8486</td> <td>6.31 EUR</td> <td>5039</td> <td>31,796.09 EUR</td> </tr> </tbody> </table>	Product	Unit Price	Quantity	Total	Louisiana Hot Spiced Okra 4663	9.31 EUR	9491	88,361.21 EUR	Tunnbröd 5672	14.77 EUR	547	8,079.19 EUR	Sir Rodney's Marmalade 4008	47.10 EUR	5780	272,238.00 EUR	Camembert Pierrot 9505	3.07 EUR	3239	9,943.73 EUR	Mascarpone Fabioli 8486	6.31 EUR	5039	31,796.09 EUR
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Datatypes

This section describes the datatype used in this sample. It describes the structure of the datatype and where it is used in the automations.

Datatype Order Status

Name of attribute	Type	Description
Status	String	Refers to the order's status
Reference	String	Refers to the order's reference

The screenshot shows the configuration interface for the 'Order Status' datatype. It includes a breadcrumb trail 'Order Status', navigation buttons, and a table with columns: Name, Type, Sample, List, and Required. There are 'New Child' buttons for each row.

Name	Type	Sample	List	Required	
Status	String		No	No	New Child
Reference	String		No	No	New Child

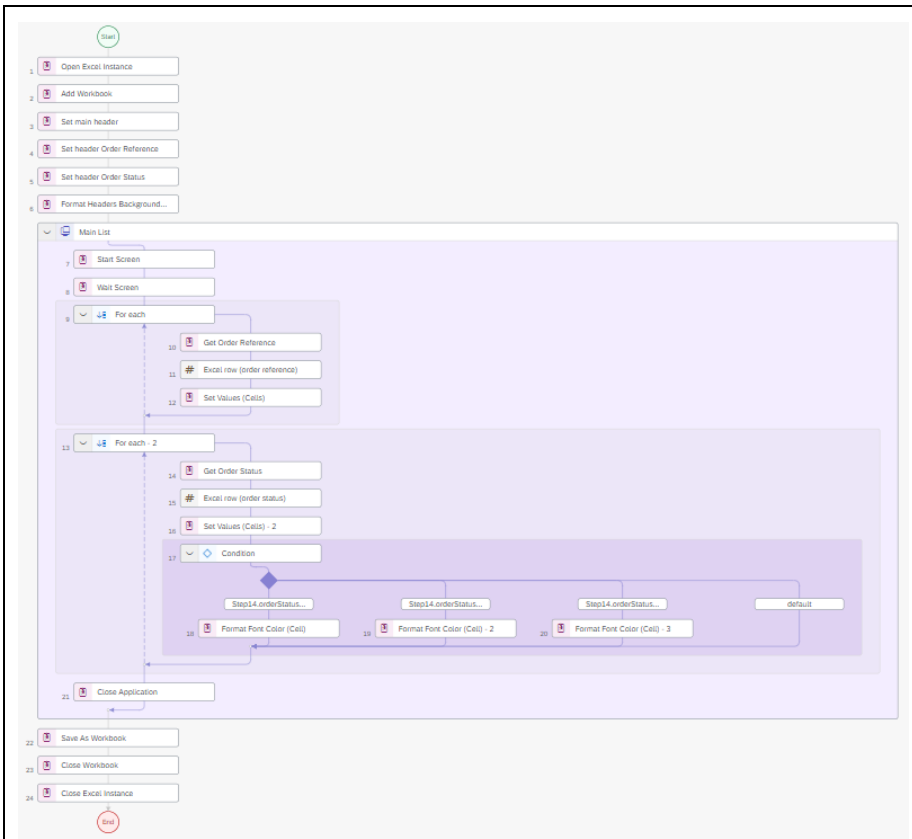
Automations

Automation Collect Orders Infos

Type: Unattended

Input: Path of the Excel file to be saved

Output: None.



The bot opens the application and will get all relevant information for each order.

Then it will write these information in an new Excel file and save it.

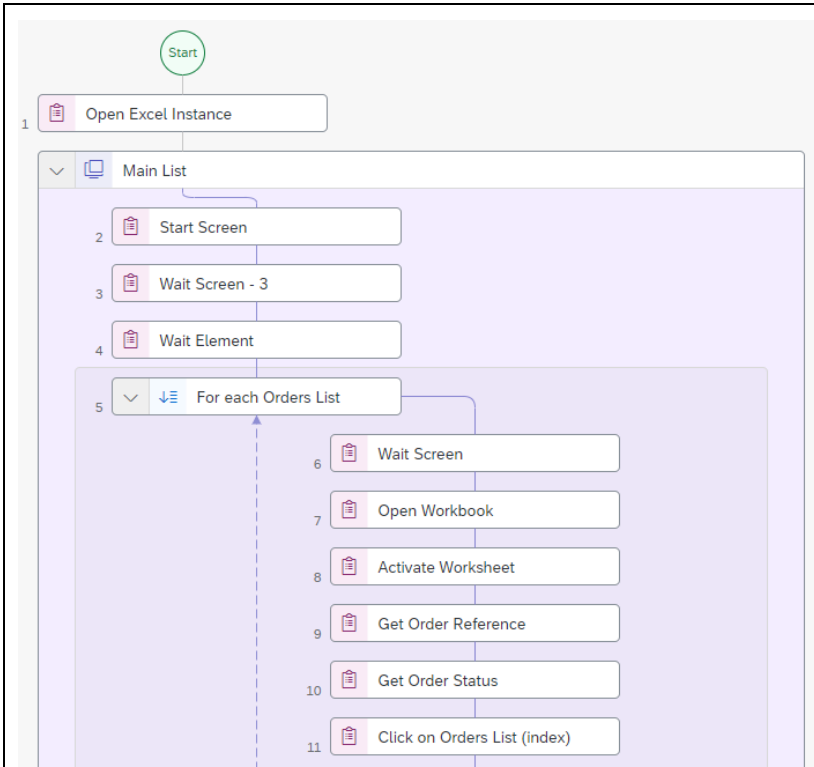
If an error occurs, the Excel instance is closed and the application too.

Automation Create Order Workbook

Type: Unattended

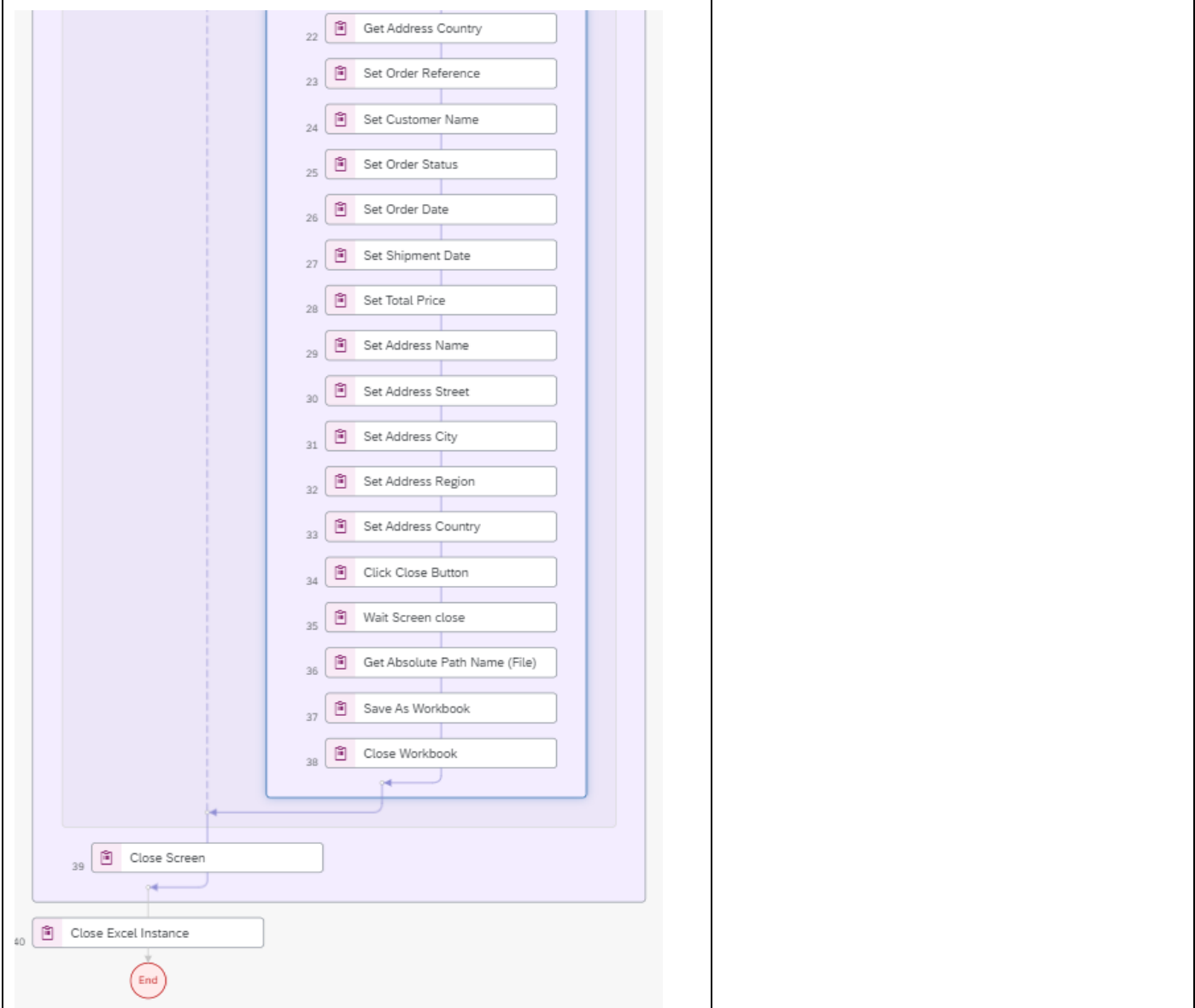
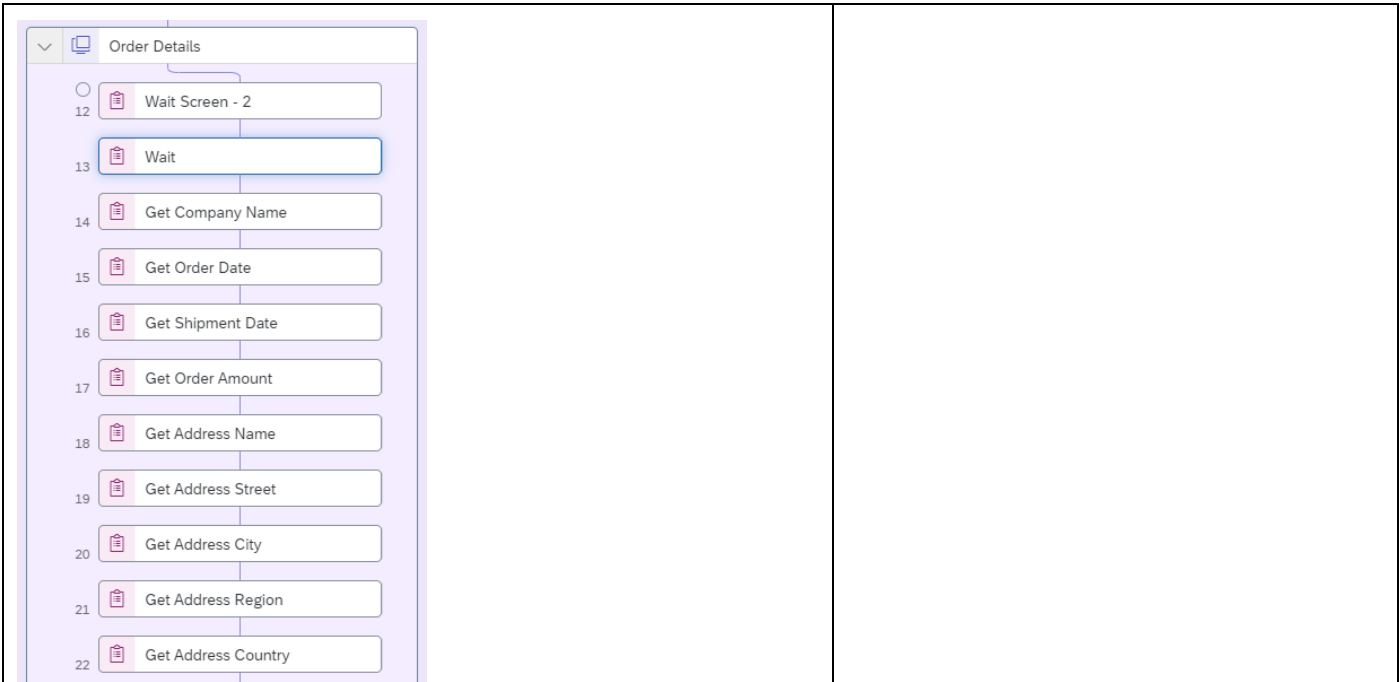
Input: Path of the folder containing the created Excel file

Output: None.



The bot starts the application then will browse all the orders from the list.

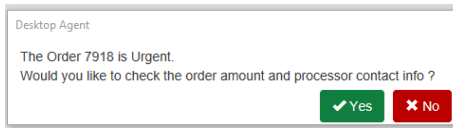
For each one of them it will open the Excel template, fill it with the information, and save it as a new file, in the folder specified as an Environment variable.



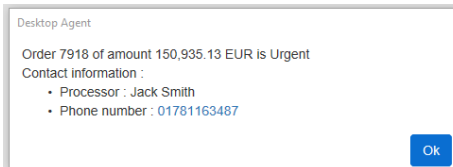
Automation Browse Order Files.

Browse Order and *Get Processors Details* are included in the main automation, *Browse Order Files*. *Browse Order* opens each file (created in the previous automation), and gets the values of the order reference and status.

In case the status is urgent, a message box proposes the user to collect the values of the amount and the processors contact details.



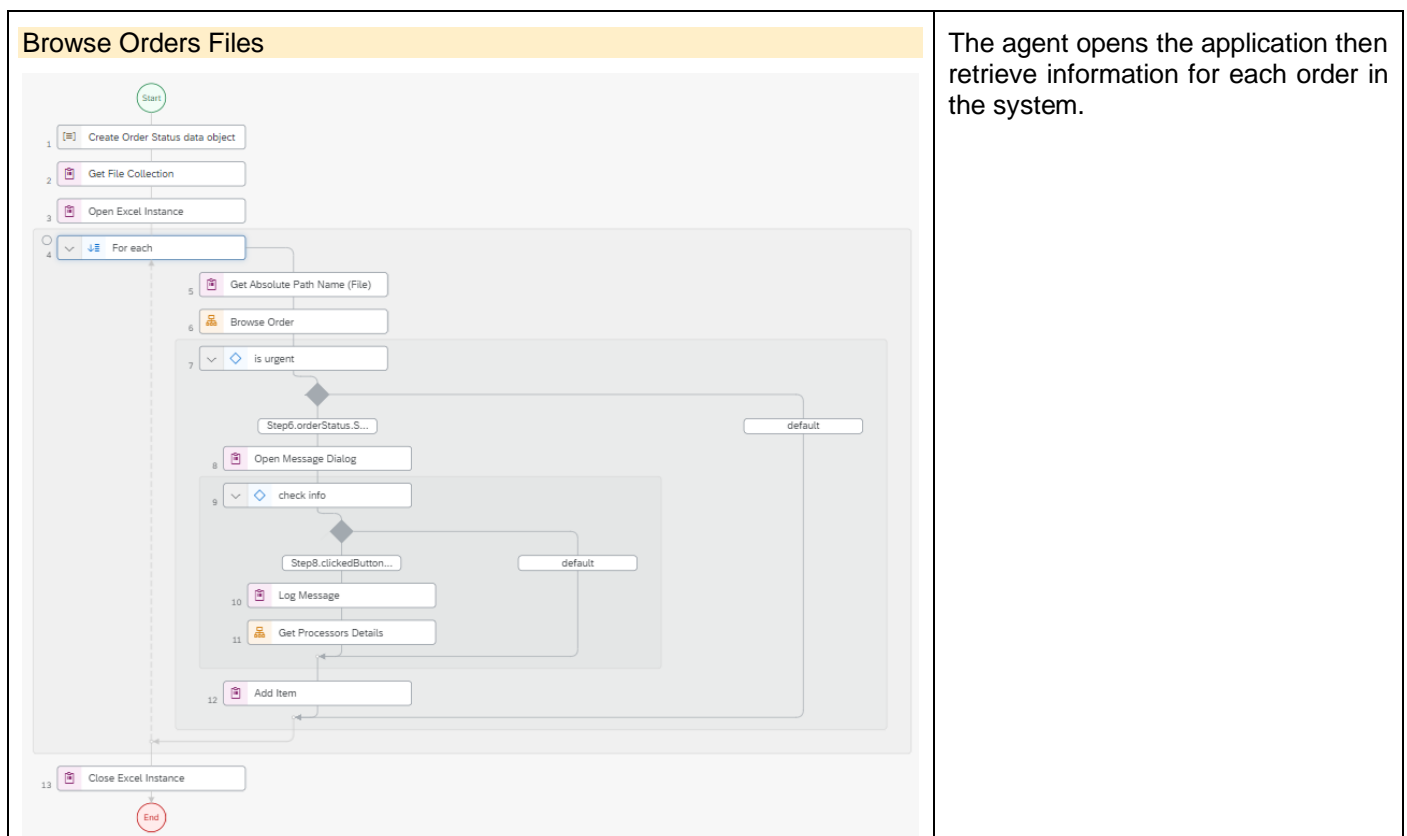
If the user click yes, the automation *Get Processors Details* opens the web application to collect the order's processor details, and open a message box with these details.



Type: Attended

Input: Group of excel files created from the previous automation, in the *E folderPath* folder.

Output: no file is created. A message box appears with the processor's contact details, if the user wants to contact them.



VERSION

The product versions used to generate this sample are detailed below. This sample is provided “as is”, with no warranty that it will work correctly with other versions. If some versions of your software are different (such as the tool version or the target application version), you may need to recapture the application and/or update the workflow activities.

SAP Build Process Automation

This sample targets the Desktop Agent **2.0.9** or higher.

The following SDK dependencies were used to generate this sample:

irpa_core	1.14.54
irpa_excel	1.14.54
irpa_outlook	1.14.54
irpa_sapui5	1.9.66

See [documentation](#) for more details about the compatibility between SDK version and Desktop Agent.

Target application

Application	Version
Browse Orders https://openui5.hana.ondemand.com/test-resources/sap/m/demokit/orderbrowser/webapp/test/mockServer.html	Last date of use: 23/03/2021

PREREQUISITES

Global setup

SAP Build Process Automation must be installed in accordance with the installation guide available [here](#). An SAP Build Process Automation Factory must be available with a suitable environment (containing an agent). All information can be found in the “Getting Started” section accessible via the above link.

Specific steps to follow before launching the agent

- When you deploy the package, set the environment variables with the information below:
 - o folderPath : location of the folder containing the Excel files to be generated
 - o template: path of the Excel template used in the automations

EXPECTED OUTPUT

Automation	Requirements																																													
Collect Orders Infos	<p>An Excel file named ordersInfos.xlsx, containing the order references and statuses, formatted according to the status.</p> <table border="1"> <thead> <tr> <th></th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>1</td> <td colspan="2">Order</td> </tr> <tr> <td>2</td> <td>Order Reference :</td> <td>Order 7918</td> </tr> <tr> <td>3</td> <td>Customer name :</td> <td>Customer: Tortuga Restaurante</td> </tr> <tr> <td>4</td> <td>Order status :</td> <td>Urgent</td> </tr> <tr> <td>5</td> <td>Order date :</td> <td>Ordered: Sep 18, 2016</td> </tr> <tr> <td>6</td> <td>Shipment date :</td> <td>Shipped: Sep 26, 2016</td> </tr> <tr> <td>7</td> <td>Amount :</td> <td>150.935,13</td> </tr> <tr> <td>8</td> <td colspan="2"></td> </tr> <tr> <td>9</td> <td colspan="2">Shipping address</td> </tr> <tr> <td>10</td> <td>Name :</td> <td>ExcellentParcel</td> </tr> <tr> <td>11</td> <td>Street :</td> <td>Tottenham Court Road</td> </tr> <tr> <td>12</td> <td>Zipcode/city :</td> <td>N170AA London</td> </tr> <tr> <td>13</td> <td>Region :</td> <td>Greater London</td> </tr> <tr> <td>14</td> <td>Country :</td> <td>United Kingdom</td> </tr> </tbody> </table>		A	B	1	Order		2	Order Reference :	Order 7918	3	Customer name :	Customer: Tortuga Restaurante	4	Order status :	Urgent	5	Order date :	Ordered: Sep 18, 2016	6	Shipment date :	Shipped: Sep 26, 2016	7	Amount :	150.935,13	8			9	Shipping address		10	Name :	ExcellentParcel	11	Street :	Tottenham Court Road	12	Zipcode/city :	N170AA London	13	Region :	Greater London	14	Country :	United Kingdom
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Browse Order Files / Browse Order / Get Processors Details	<p>The user has the possibility to get the urgent order's details and contact the processor.</p> <div style="border: 1px solid #ccc; padding: 10px; width: fit-content;"> <p>Desktop Agent</p> <p>Order 7918 of amount 150,935.13 EUR is Urgent</p> <p>Contact information :</p> <ul style="list-style-type: none"> • Processor : Jack Smith • Phone number : 01781163487 <p style="text-align: right; margin-top: 10px;">Ok</p> </div>																																													
Get Urgent Order Details	<p>The order's values issued from the excel file will be available as outputs.</p>																																													
Sent Email to Order Processor	<p>An email will be received, in the processor's inbox.</p> <div style="border: 1px solid #ccc; padding: 10px; width: fit-content;"> <p>Urgent order!</p> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-left: 5px;">To ✓</div> </div> <div style="text-align: right; margin-top: 5px;"> ↶ ↷ → ⋮ </div> <p style="text-align: right; margin-top: 5px;">11:50</p> <p>Your referenced Order 7918 of amount 248 EUR should be handled very quickly!</p> </div>																																													

www.sap.com/contactsap

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THE BEST RUN

