Get scoring

Project name: Get scoring

Package version: 1.0.8

THE BEST RUN SAP

Version	Date	Description
1	October 23, 2020	Document created
1.1	March 08, 2021	Change template Add information about SDK dependencies
1.2	August 12, 2021	Changing version of the package

TABLE OF CONTENTS

INTRODUCTION

This document describes the SAP Build Process Automation sample **Get scoring** 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.

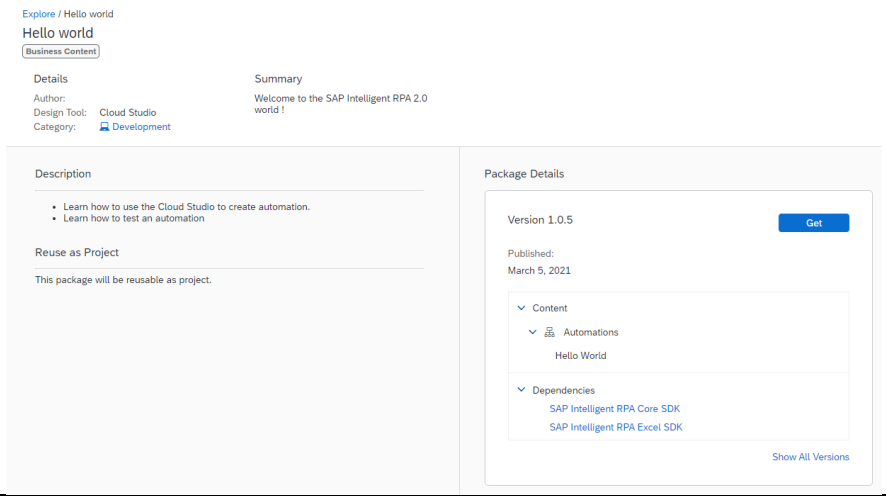
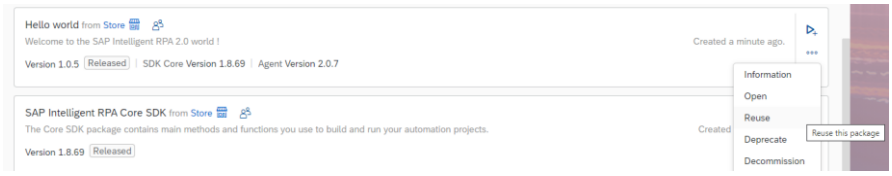
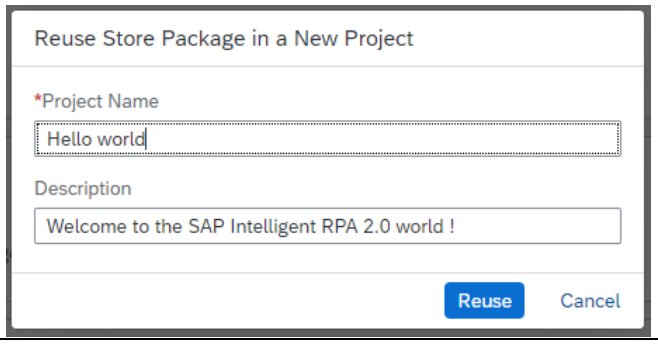
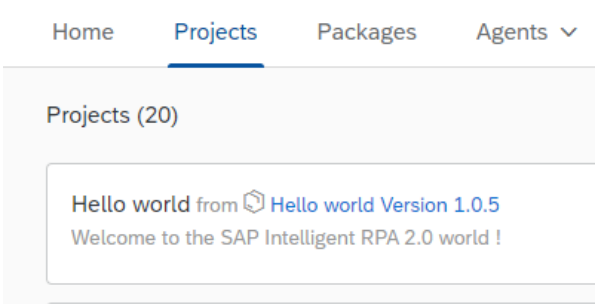
IMPORTANT RECOMMANDATION

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.

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

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 Version for more details about the version of the Desktop Agent and the SDK dependencies.

Settings

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

Environment variables

Name	Description	Type
excelFilePath	Location of the Excel file to be used in the sample.	String
pdfFilePath	Location of the PDF file to be used in the sample.	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.

Scoring

Type: WEB

Framework: None

Screen	Description
pLogin	The *loginBox* item uses the **Must Exist** option.
pUserInfo	The items are all defined by their ID. They are all part of the following pattern: FORM > INPUT (where the form has a specific ID to make sure we deal with Individual) The *oIdentBox* item uses the **Must Exist** option.
pResult	The *oResultBox* item uses the **Must Exist** option.

Note: all the screens of the application use the same URL. The content is dynamically loaded. It is the reason why the **Must Exist** option is selected for some components of the pages as it is the only way to get discriminant criteria for the screens.

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.

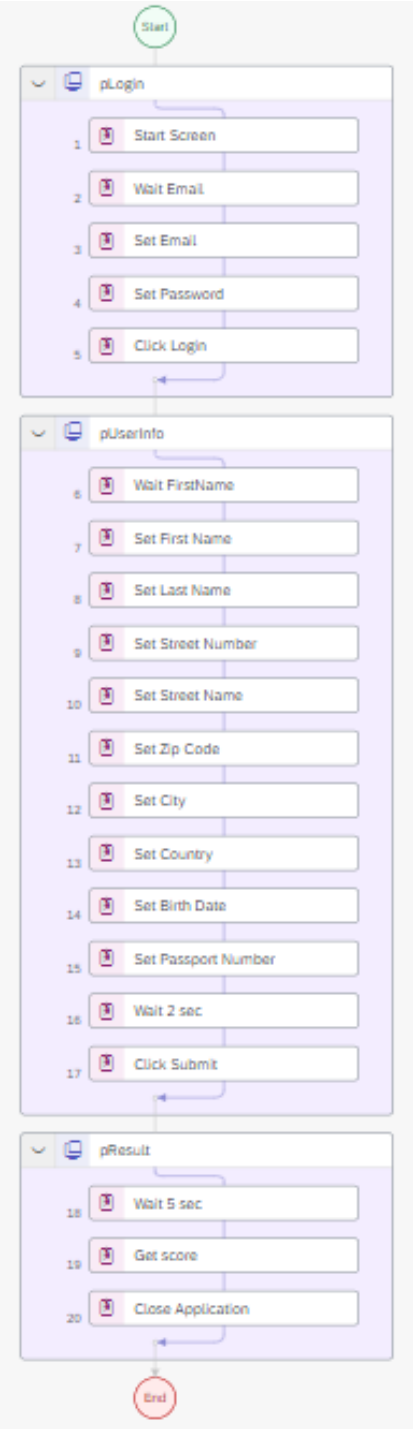
Person

Name of attribute	Type	Description
firstname	String	
lastname	String	
birthdate	String	
passportnumber	String	

Name of attribute	Type	Description
streetnumber	String	
streetname	String	
zipcode	String	
city	String	
country	String	

Automations

Get Score
Type: Nested automation
Input: Person object
Output: The score of the Person (string)



Get info from Excel
Type: Attended
Input: None
Output: None

The agent launches the Scoring application and login using static credentials.

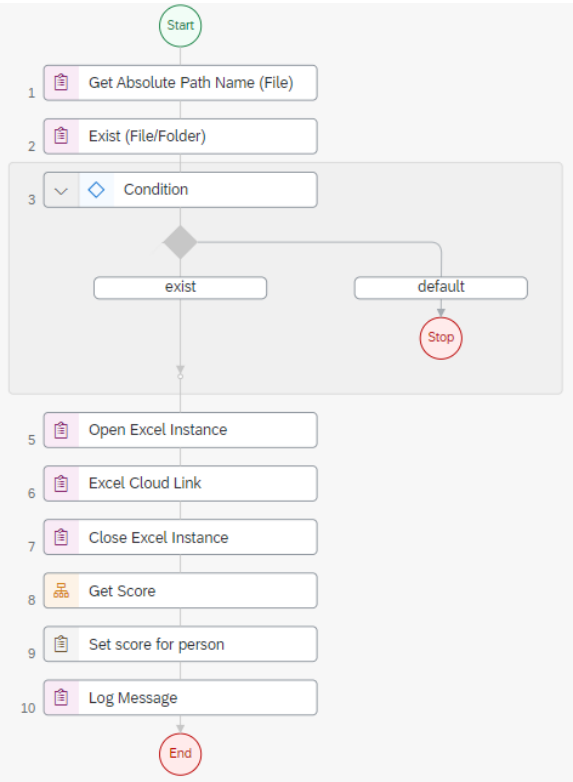
It will then fill all the fields in the *pUserInfo* screen as soon as it can and click on the *Submit* button.

Last the agent reads the score and sends it back to the parent automation.

Note: **Wait 2 sec** only aims at slower the execution of the automation so you can see the agent fill the form.

Note: When reaching *pResult*, the *score* item exists and its value changes from 0 to the actual score. For this specific reason we cannot use a **Wait item** activity otherwise we would log the result 0.

Also we cannot use the **Wait change** activity as the event would be triggered *before* we reach the actual result. That's why we put a delay of 5 seconds, just to make sure the gauge has reached its final value.

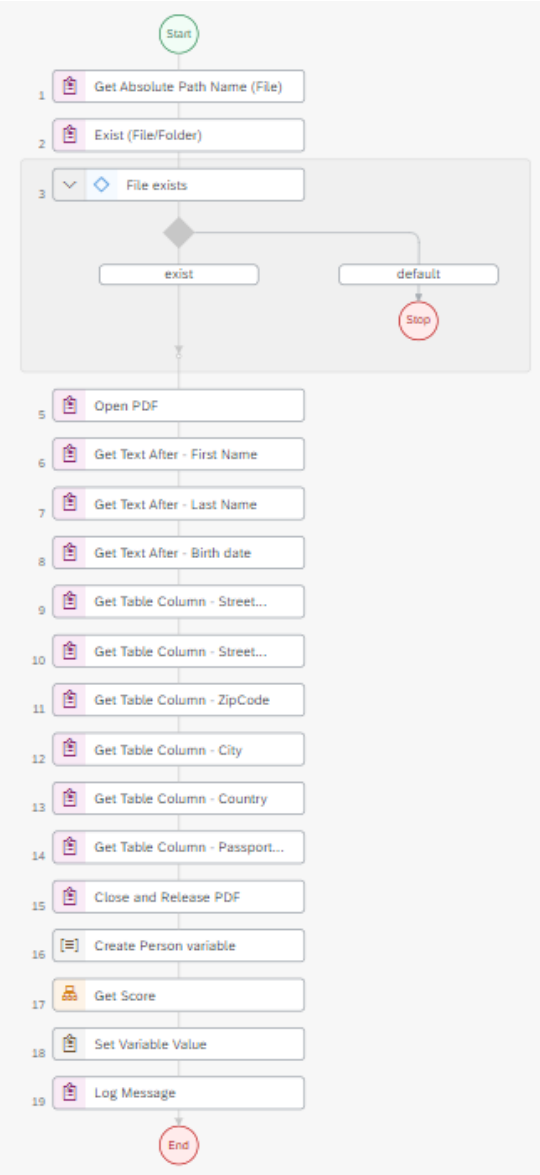


Data are read from the Excel file (static file path is provided).

Then the agent launches the nested automation **Get Score** (see above for description) to get the score value.

Note: Excel Cloud Link is designed to return a list of Person objects. As there is only one row in the Excel file and as there is no loop in the automation, the input parameter of **Get Score** is built with the data from the first item in the list.

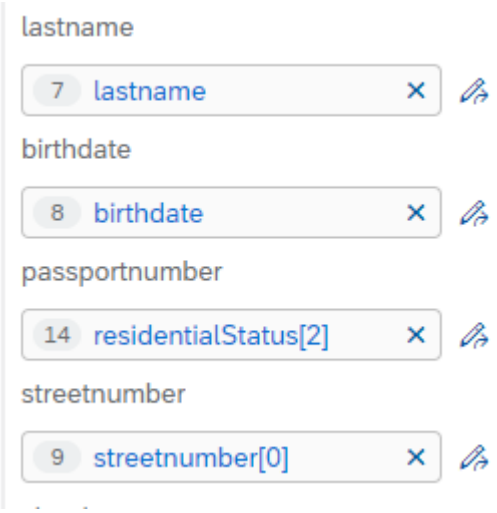
Get info from PDF
Type: Attended
Input: path of pdf file
Output: None



Data are read from the PDF file (file path is provided as input) then the agent launches the nested automation **Get Score** (see above for description) to get the score value.

Note: The **Get Text After** activities return a string whereas the **Get Table Column Entries** activities return an array of string.

That is why we are using the following values to call **Get Score**



Note: It might seem difficult to find the correct values for the *left* and *right* parameters of the Get Table Column Entries activity. You need to evaluate the space between the end of the header of the column, and the end of the column itself to determine the *right* parameter.

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 **2.0.7** or higher.

The following SDK dependencies were used to generate this sample:

irpa_core	1.14.54
irpa_excel	1.14.54
irpa_outlook	N/A
irpa_pdf	1.14.54
irpa_ui5	N/A
irpa_word	N/A

See documentation for more details about the compatibility between SDK version and Desktop Agent.

Target application

https://scoringco--ipa--authme--html.cfapps.sap.hana.ondemand.com/ Date of last test: 12 August 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.

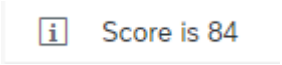
Specific steps to follow before launching the agent

- Download the **docs.zip** archive from the sample and extract its content
- You also need to set the variables in the table below with the correct values:

Variable	Value
username	test@sap.com
password	test

EXPECTED OUTPUT

The score should be displayed in the logs of the automation. For instance:



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