

AUTOMATED TEST CASE GENERATOR

Jeevith Hegde

02.11.2022

Table of Contents

GenerateTestCases.xml	3
Solution design	4
Usage suggestion.....	5
Custom logging of test case executions	8

GenerateTestCases.xaml

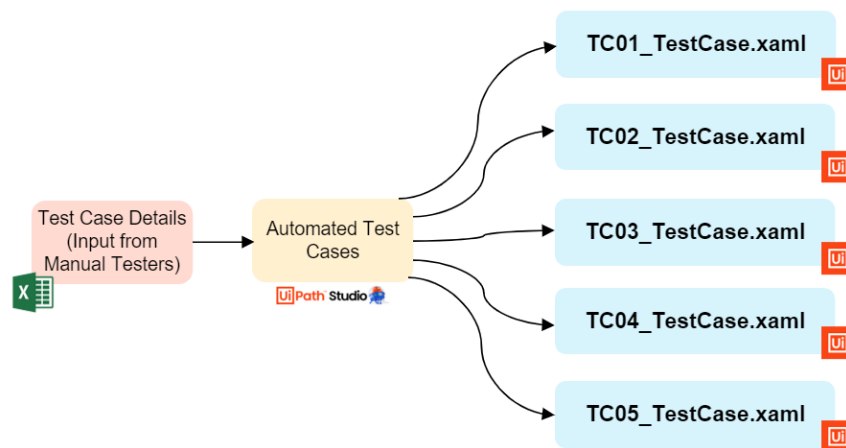
This activity creates test case workflows given a standard excel input data consisting of meta data of required test cases.

The activity then uses functional and non-functional test case snippets to generated the required test cases.

The excel file is publically available at : [AutomatedTestCaseGenerator-UiPath/TestCaseList.xlsx](https://github.com/jeev20/AutomatedTestCaseGenerator-UiPath/TestCaseList.xlsx) at main · jeev20/AutomatedTestCaseGenerator-UiPath (github.com)

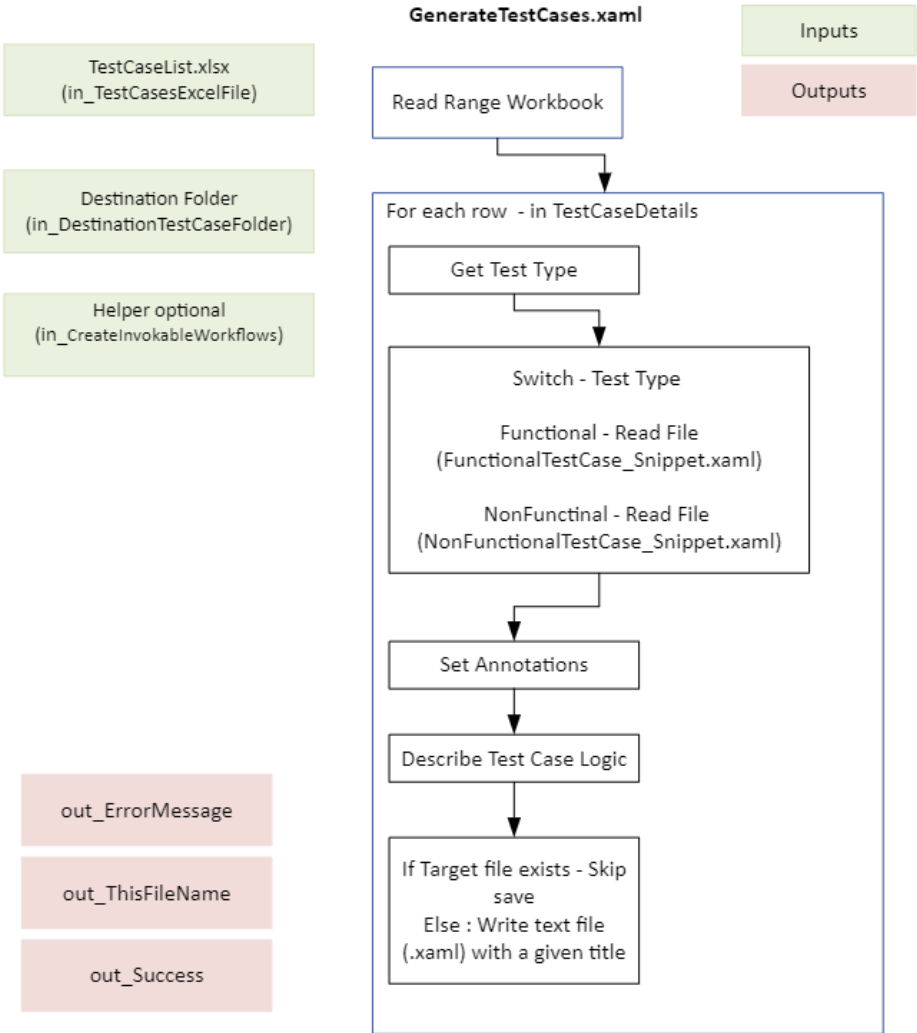
The input data should strictly follow the example excel file.

Currently, only Function and Non-Functional test cases are supported.



Arguments	Annotation
out_ThisFileName	Automatically gives you the current filename and send out to be use.
out_ErrorMessage	If the webhook fails, you can get the error message thorough this argument.
out_Success	Indicator that indicates if this workflow has runned succesfully or not.
in_TestCasesExcelFile	This is the excel file where the test cases are described.
in_DestinationTestCaseFolder	Folder path where the test cases can be saved.
in_CreateInvokableWorkflows	This flag when true creates a set of reuseable components within the same folder (in_DestinationTestCaseFolder).

Solution design

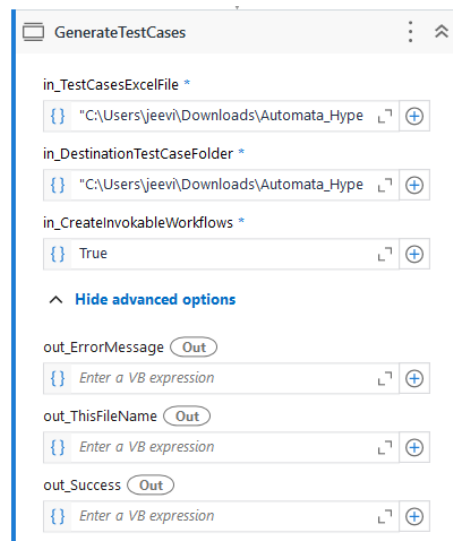


Usage suggestion

1. Together with the testing team define the test cases to be developed and use the input excel format as shared here : [AutomatedTestCaseGenerator-UiPath/TestCaseList.xlsx at main · jeev20/AutomatedTestCaseGenerator-UiPath \(github.com\)](#)

TestCaseID	Priority	Pre-requisites	FriendlyName	Type	Description	Test Steps	Expected result
TC_001	High	Auditbase application installed	SearchFunction	Functional	Verify that the search function in auditbase returns value.	Launch auditbase Write into the search input Get patient information from auditbase	Search results in either null or many values
TC_002	High	Auditbase application installed	PerformanceFunction	Non Functional	Verify that the search function in auditbase performs within 10 seconds.	Launch auditbase Write into the search input Get patient information from auditbase	Results shown within 2 seconds to the user.
TC_003	Medium	Auditbase application installed	PatientDetailsFunction	Functional	Verify the patient details are shown when "Søk" button is pressed.	Launch auditbase Write into the search input Get patient information from auditbase	Results show patient details (PII)
TC_004	Medium	Auditbase application installed	EditPatientAddressFunction	Functional	Verify that the patient address can be edited.	Launch auditbase Search for patient and change patient address.	Results show patient details (PII) address is editable
TC_005	Low	Auditbase application installed	Logout of Auditbase	Functional	Verify that the user can logoff of Auditbase.	Launch auditbase and Logout	Results show the logout screen elements are accessible

2. Create a testing project in UiPath and install this package using Manage Packages → Search for AutomatedTestCaseGenerator in Marketplace. Install it.
3. In the activities panel search for the activity **GenerateTestCases**
4. Fill in the required arguments for the activity (in_TestCasesExcelFile and in_DestinationTestCaseFolder). Optional argument in_CreateInvokableWorkflows as a boolean.



5. Now you can run this activity and the UiPath workflows will be generated in in_DestinationTestCaseFolder.

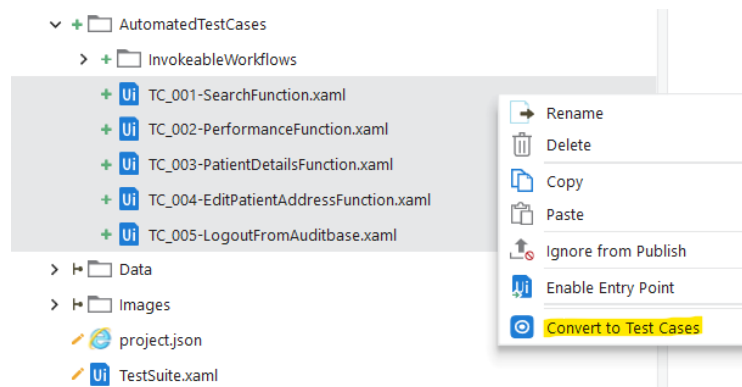
ProjectFiles_Automata_HyperHack_AutomatedTestCaseGenerator > Data > AutomatedTestCases

Name	Date modified	Type	Size
▼ Today			
TC_005-LogoutFromAuditbase.xml	04-11-2022 20:55	Windows.XamlDoc...	27 KB
TC_004-EditPatientAddressFunction.xml	04-11-2022 20:55	Windows.XamlDoc...	27 KB
TC_003-PatientDetailsFunction.xml	04-11-2022 20:55	Windows.XamlDoc...	27 KB
TC_002-PerformanceFunction.xml	04-11-2022 20:55	Windows.XamlDoc...	27 KB
TC_001-SearchFunction.xml	04-11-2022 20:55	Windows.XamlDoc...	27 KB
InvokeableWorkflows	04-11-2022 20:55	File folder	

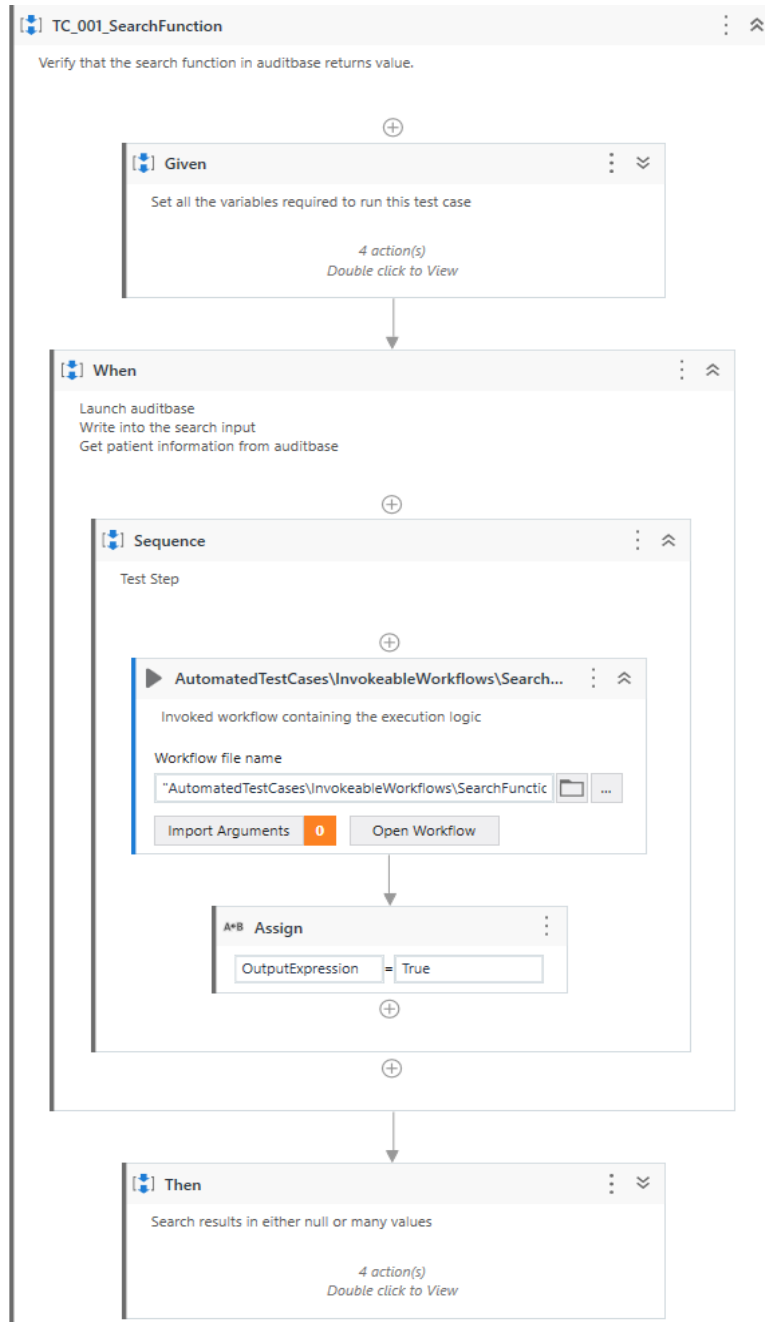
< Data > AutomatedTestCases > InvokeableWorkflows

Name	Date modified	Type	Size
▼ Today			
LogoutFromAuditbase.xml	04-11-2022 20:55	Windows.XamlDoc...	12 KB
EditPatientAddressFunction.xml	04-11-2022 20:55	Windows.XamlDoc...	12 KB
PatientDetailsFunction.xml	04-11-2022 20:55	Windows.XamlDoc...	12 KB
PerformanceFunction.xml	04-11-2022 20:55	Windows.XamlDoc...	12 KB
SearchFunction.xml	04-11-2022 20:55	Windows.XamlDoc...	12 KB

- If the destination folder is in your project scope navigate to the folder and select the workflows and right click and use “Convert to Test Cases”. This way studio converts the automated workflows into test cases.



7. If you chose to also create InvokeableWorkflows, these workflows follow an error-proof template. You can read more about why this is a robust way of developing workflows here : [Creating error-proof reusable workflows in UiPath - News / Tutorials - UiPath Community Forum](#)
8. The InvokeableWorkflows are standard UiPath Workflows, so you can now create the needed logic in your test case in these workflows and invoke them in your Automated Test Cases.
9. You can then use the output arguments from InvokeableWorkflows in your test case and build robust scalable test cases.



Custom logging of test case executions

We have invested a lot of time to prepare a comprehensive logging for test cases. These logs would allow you to slice and dice the log data across many attributes.

Detailed logging method in the Test Cases: Example logs when the automated test case is run.

The pipe character string separator is provide to aid easy pattern extraction using RegeX or String manipulation in your analytics tools.

|"Key1": "Value1" | "Key2": "Value2" | "KeyN": "ValueN" |

- ⓘ Debug started for file: TC_001-SearchFunction
- ⓘ AutomatedTestCaseGenerator-TestSuite execution started
- ⓘ |Test case has started at:11/04/2022 21:07:59|ProcessName:AutomatedTestCaseGenerator-TestSuite|TestType:Functional|TestCaseName:TC_001-SearchFunction.xml|
- ☑ |Test case has finished executing at:11/04/2022 21:07:59|ProcessName:AutomatedTestCaseGenerator-TestSuite|TestCaseName:TC_001-SearchFunction.xml|TestType:Functional|TotalTestExecutionTime(seconds) for:0|TestResult:True|ExpectedResult:True|FailedWorkflowName:|ErrorMessage:|
- ⓘ |Test case has finished executing at:11/04/2022 21:07:59|ProcessName:AutomatedTestCaseGenerator-TestSuite|TestCaseName:TC_001-SearchFunction.xml|TestType:Functional|TotalTestExecutionTime(seconds) for:0|TestResult:True|ExpectedResult:True|FailedWorkflowName:|ErrorMessage:|
- ⓘ AutomatedTestCaseGenerator-TestSuite execution ended in: 00:00:01