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UiPath Test Suite

Test Cases Components and Type

Use Given-When-Then Formula to build Test cases in UiPath Studio Pro

Given=Test Data,preconditions of the Test cases (for eg input data can be from Excel File,Database sources).

When=Workflows(Test Steps to be executed.

Then= Test Validation(Expected Result and Actual Result Outcomes

Workflow Types:

1.Test Case:A template for single test case for automation

2.Data Driven Test Case: A template Taking the input data from an Large amount of Data with different permutation combination.

Create a test case based on a workflow will automatically leverage the Given-When-Then Structure.

Test Verification Activities

Testing Activities were added through the UiPath.Testing.Activities Package.

There are 3 Testing Verification Activities:

1.Verify Expression

This activity verifies a single expression (e.g. whether two variables are equal). Its outcome can be True or False.

2.Verify Expression with Operator

This activity compares the outcomes of two expressions, variables or arguments using 6 predefined operators. Its outcome can also be True or False.

3.Verify Control Attribute

This is the most versatile activity in the first version of the Testing Activities Package. It allows the comparison of a property returned by another Activity with an expression, variable or argument. Its outcome can also be True or False.

Publish Test Cases

After successful creation of Test cases based on workflow

Need to publish Test case to get visible in orchestrator

Steps:

In the project panel right click on test case and set as publishable.

Then click on Publish or Publish Test Cases ribbon options

It publishes whole project together with Test cases in Orchestrator.

Testing Capabilities in UiPath Orchestrator

To run your Test Cases, you have to have setup 1-robot, of type 'Testing

This can be done by adding the Testing Licence to your service on portal.

Orchestrator Dashboard

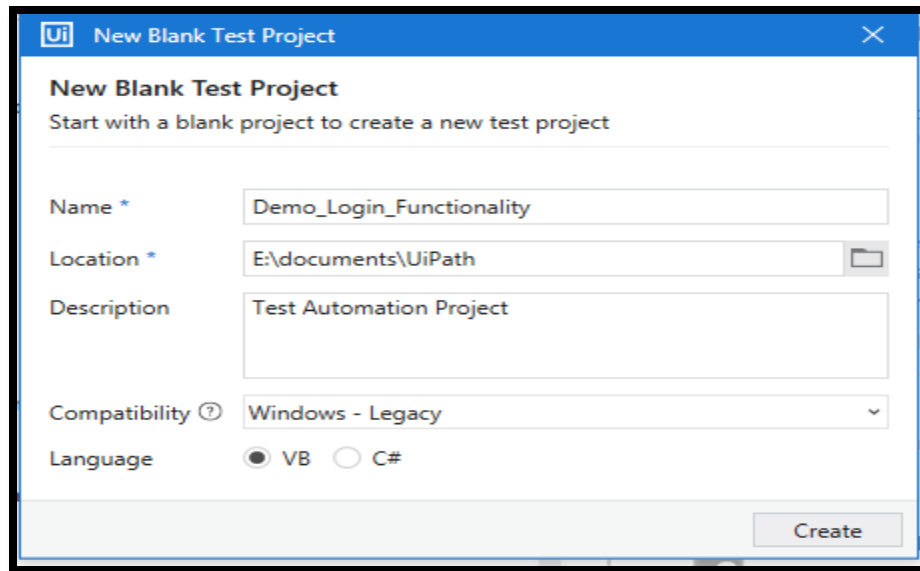
After Adding Testing Licence in service portal we can able to see Testing Capability in UiPath Orchestrator

Testing Options available in UiPath Orchestrator are:

1. Test Cases
2. Test Sets
3. Test Executions
4. Test Schedules

Example:

Click on Test Automation and Create Project



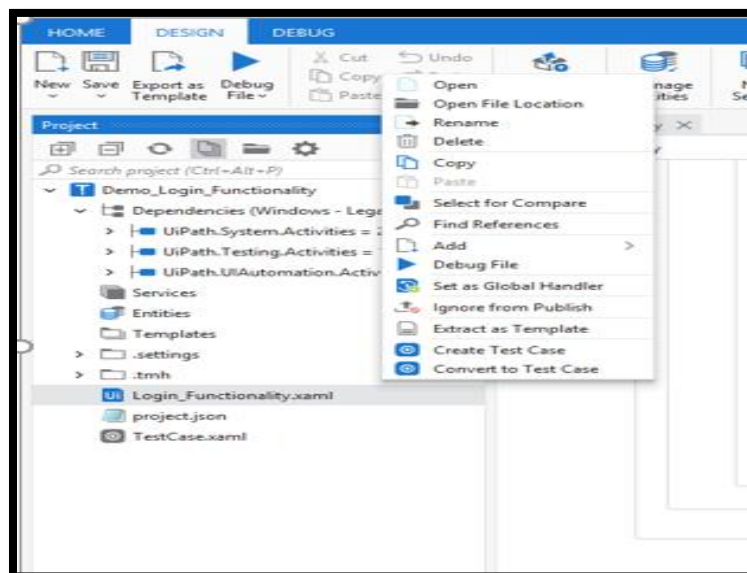
Created one Login Functionality workflow/sequence

1.Opening the amazon website

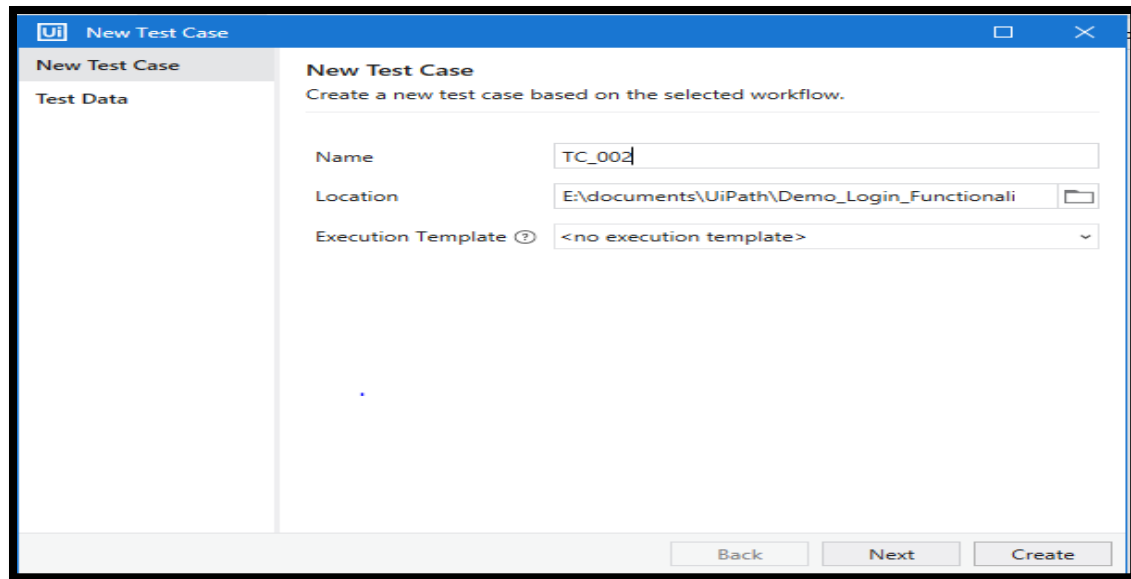
2.Click on more option

3.click on Sign in or Sign out

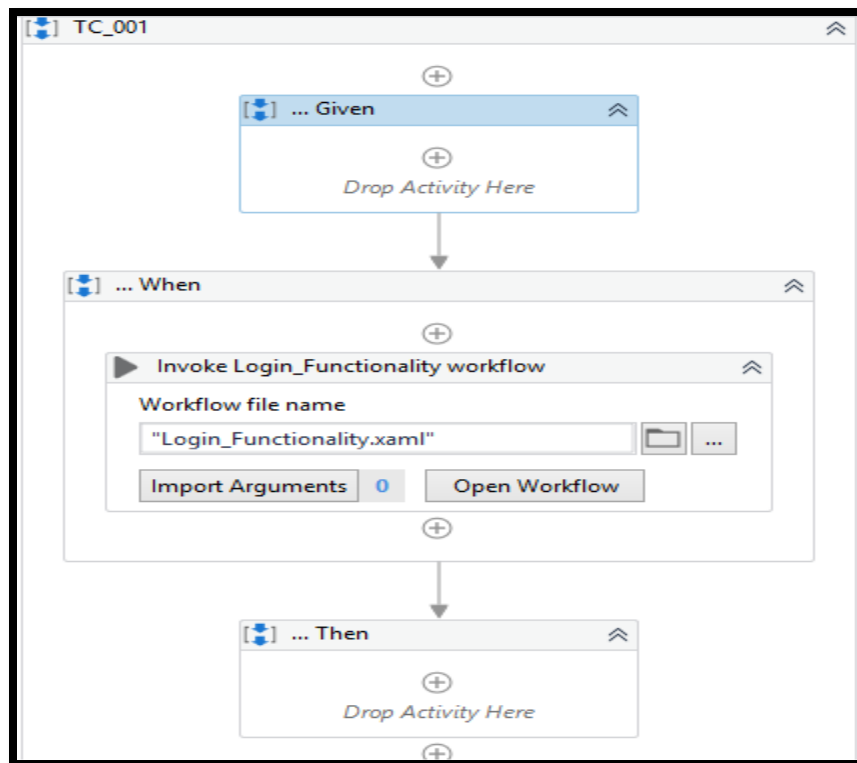
Right Click on that sequence → Click on create Test case



By Providing Name

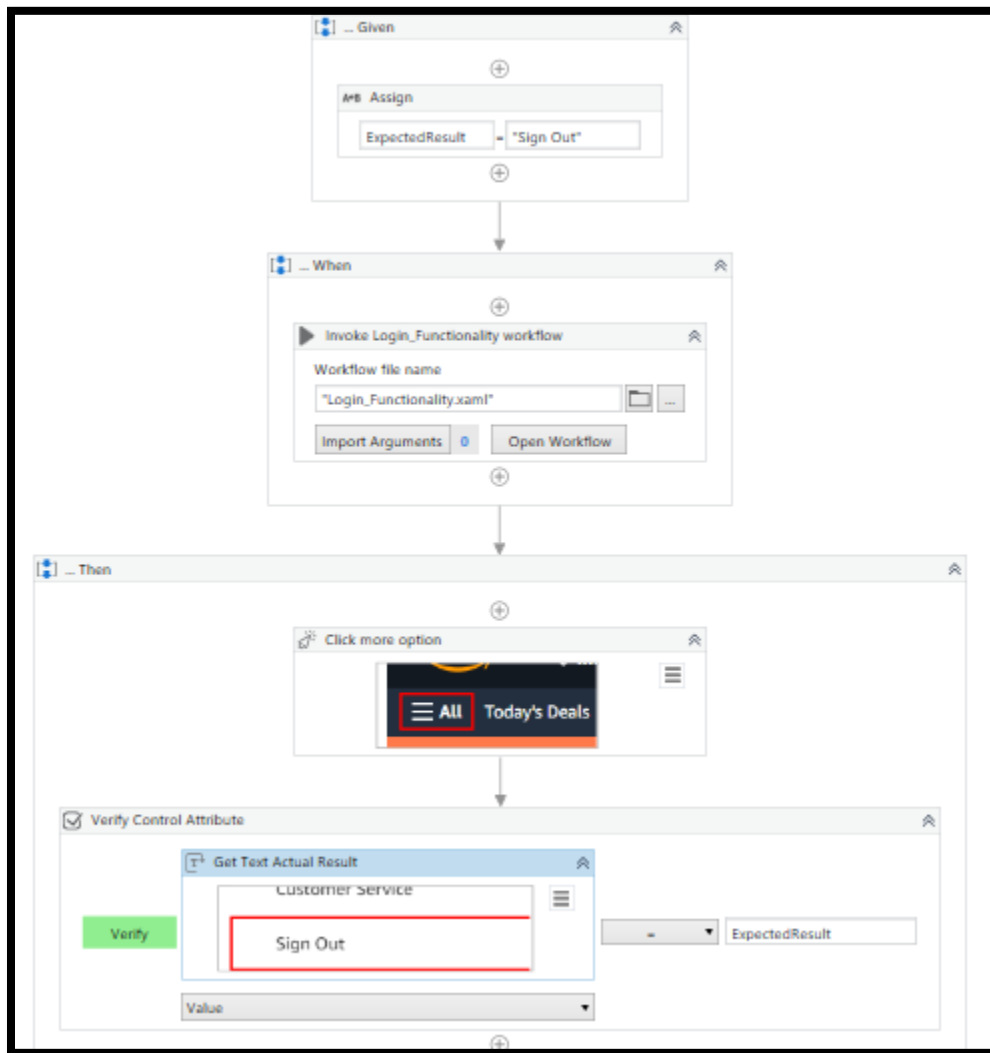


After Creating TestCase ,the Test Case xaml look like below.

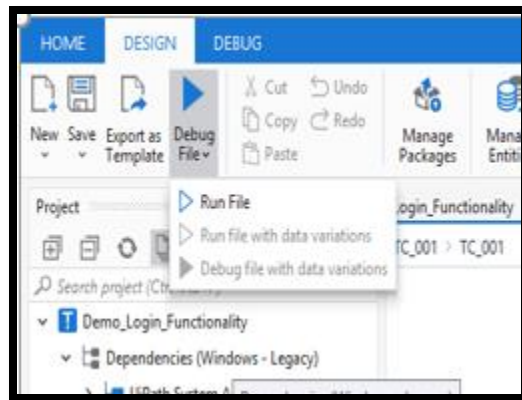


In The Given Block Provide the ExpectedResult

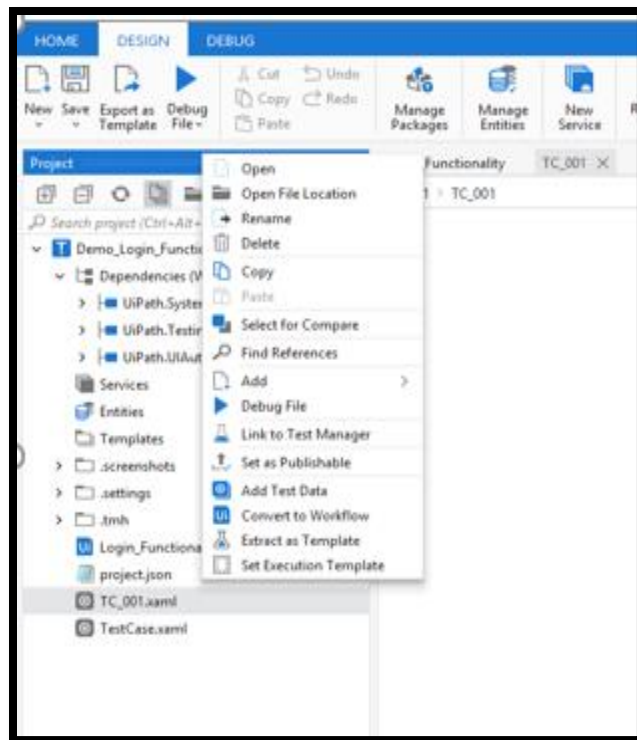
In the Then Block Verify Expected Result with Actual Result



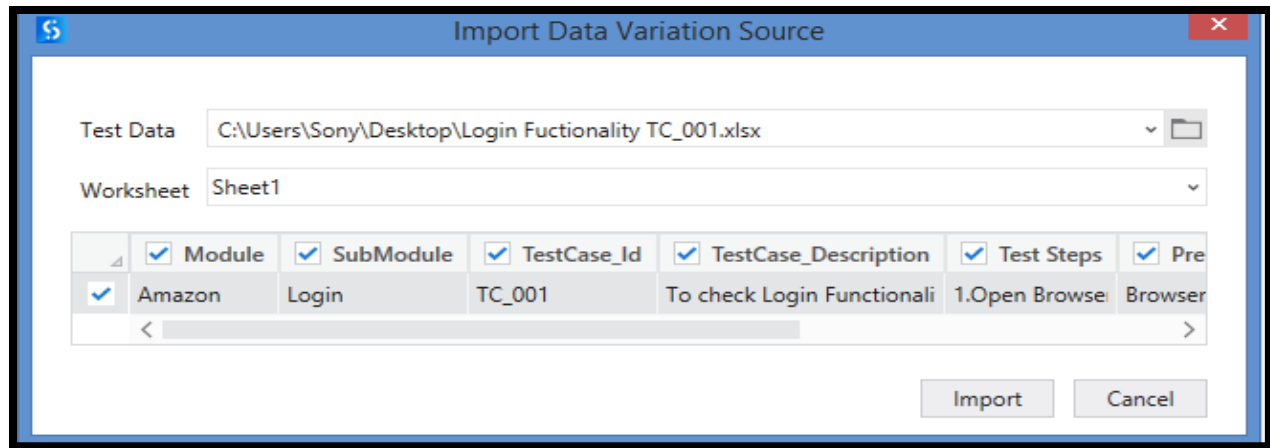
In the above workflow all are hard coded values when I debug the TC_001 xaml only Run File will be active remaining thinks will disappear



Right Click on Test Case which we created → Add Test Data



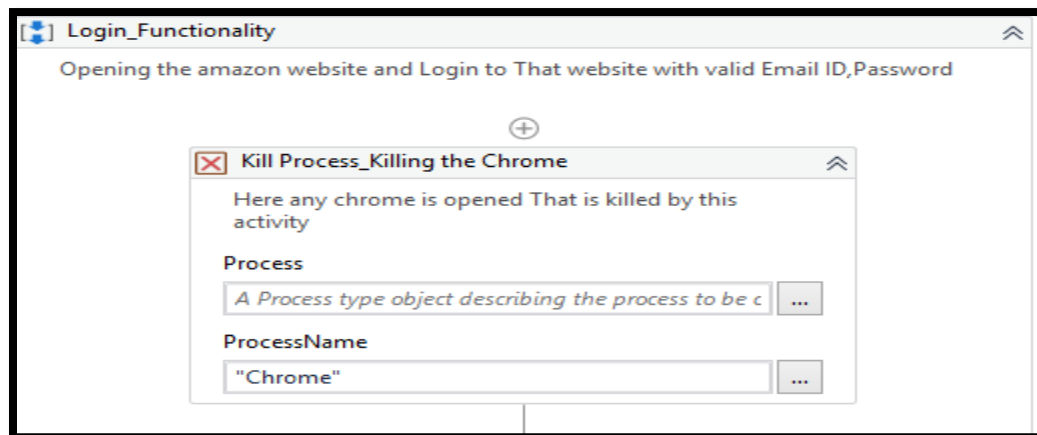
Here Import the Excel which contain the test Data.

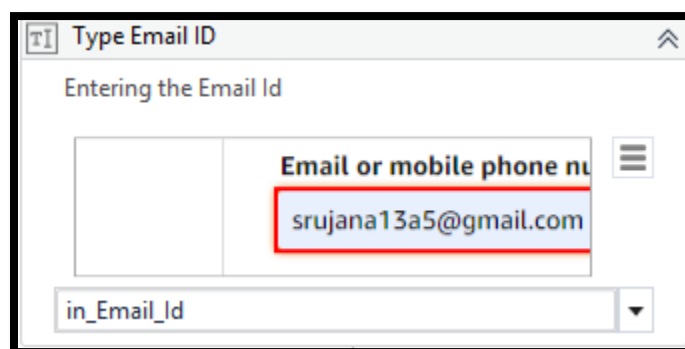
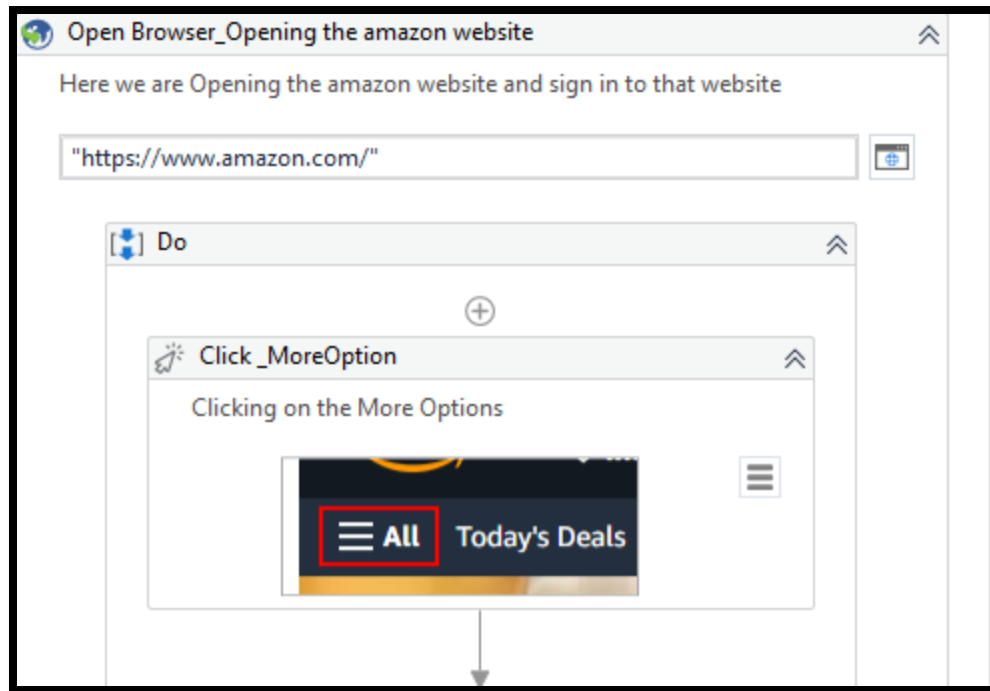


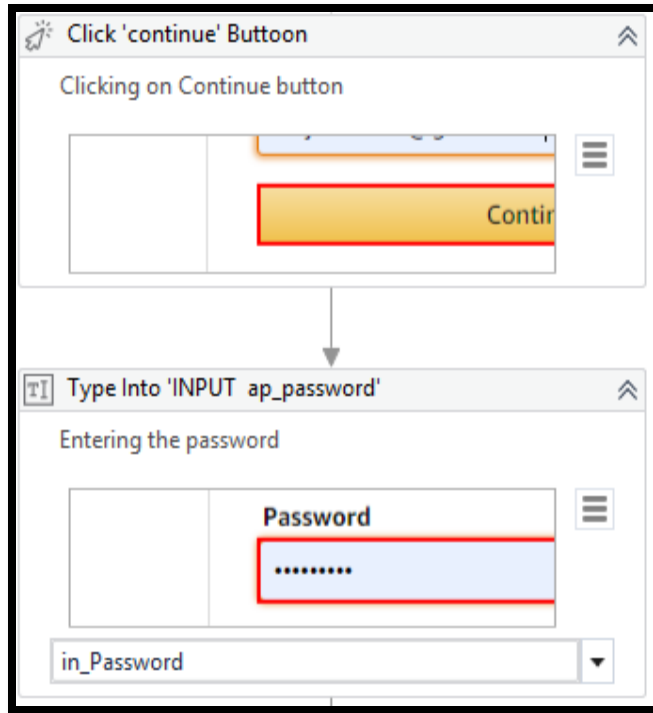
The columns in Excel will be created as arguments in workflow

Name	Direction	Argument type	Default value
SubModule	In	String	"Login"
Test_Case_Id	In	String	"TC_001"
Test_Case_Description	In	String	"To check Login Functionality"
Test_Steps	In	String	"1.Open Browser 2.open amazon website 3.Go to m
Precondition	In	String	"Browser Should Open"
Email_Id	In	String	"srujana13a5@gmail.com"
Password	In	String	"[REDACTED]"

Below is workflow which I created



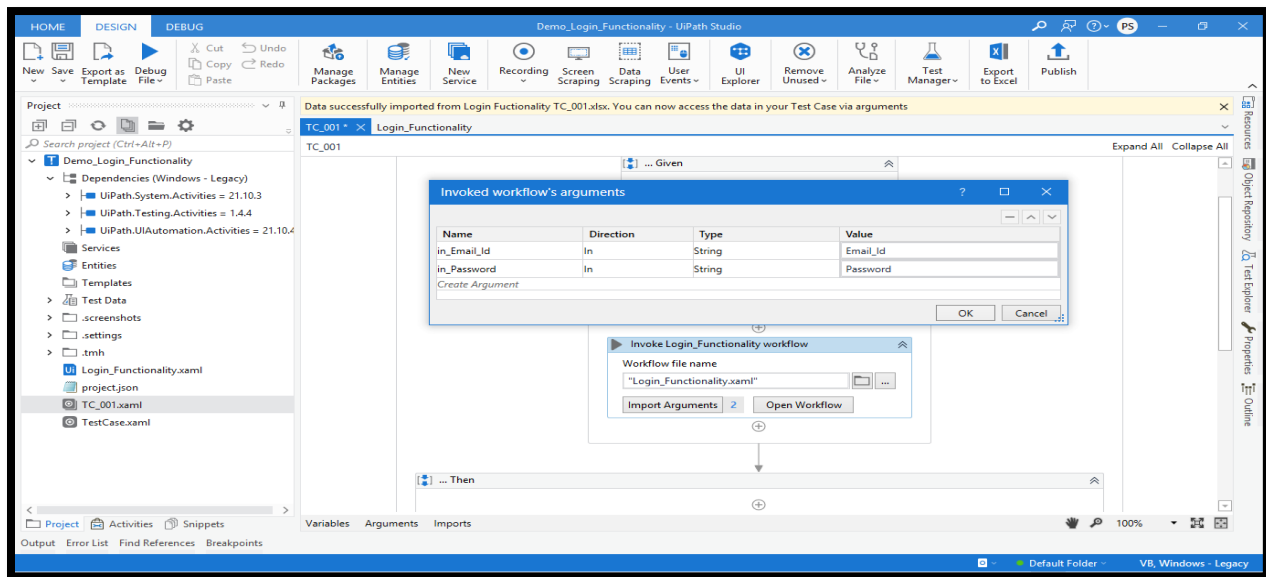




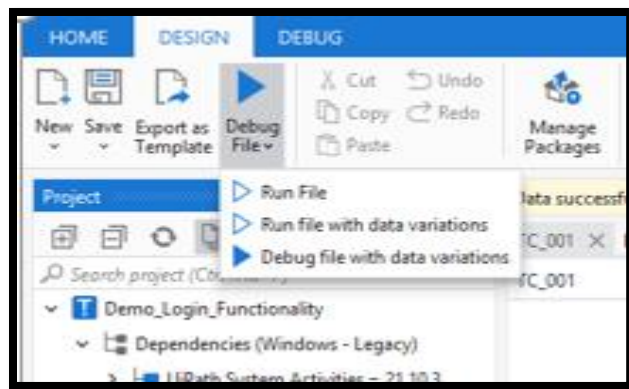
Create two in Arguments in Login_Functionality sequence in_Email,in_Password

Name	Direction	Argument type	Default value
in_Email_Id	In	String	Enter a VB expression
in_Password	In	String	Enter a VB expression

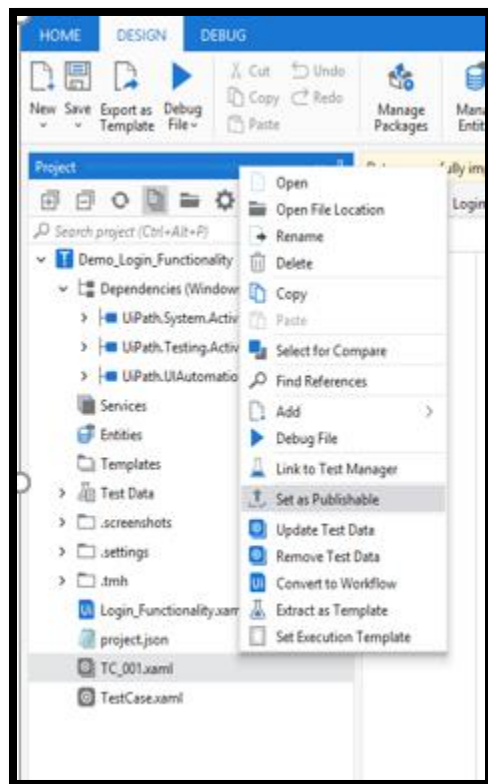
After That import that arguments in Test Case



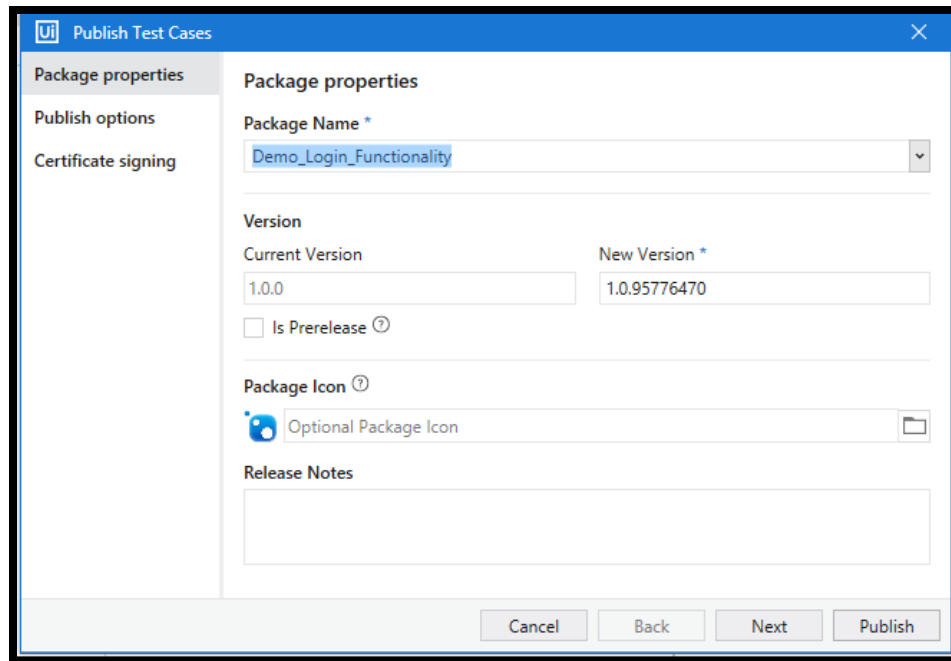
While Debug we are getting three options ,choose run File in Data variation



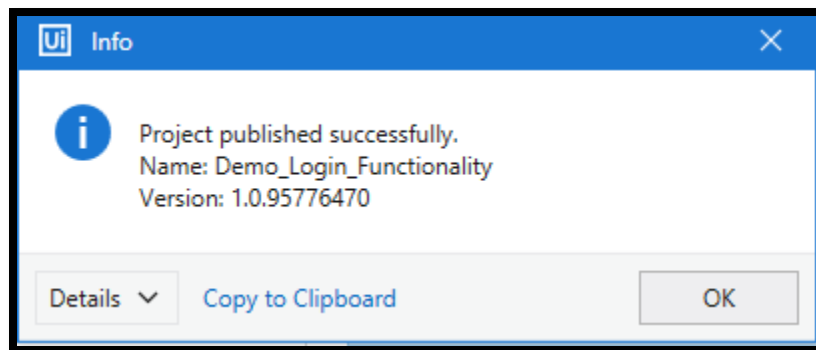
Right click on Test Case → Choose Set as Publish



Click on Publish which is on ribbon Tab

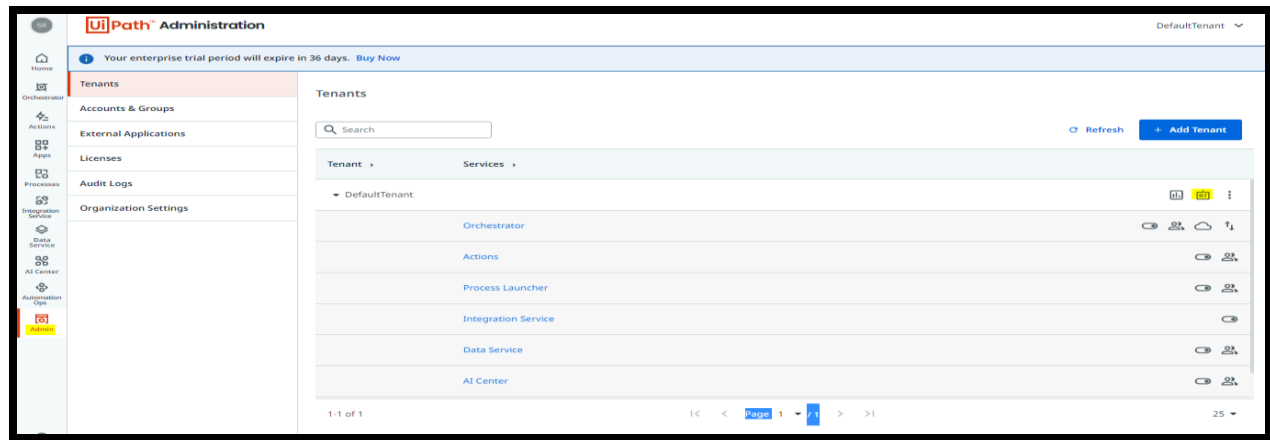


Click on next and publish

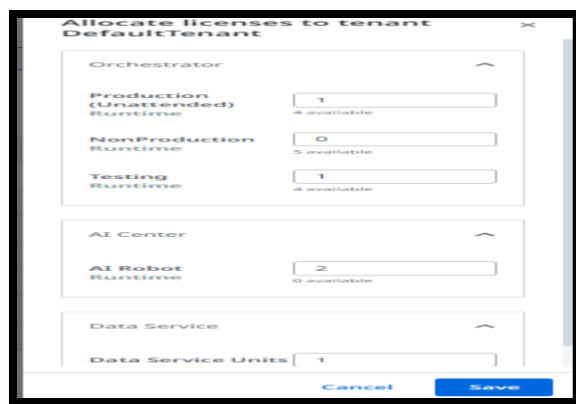


Click on ok.

Go to cloud.uipath.com → go to admin → Go to Edit Licence Location → Check the testing Licence as 1

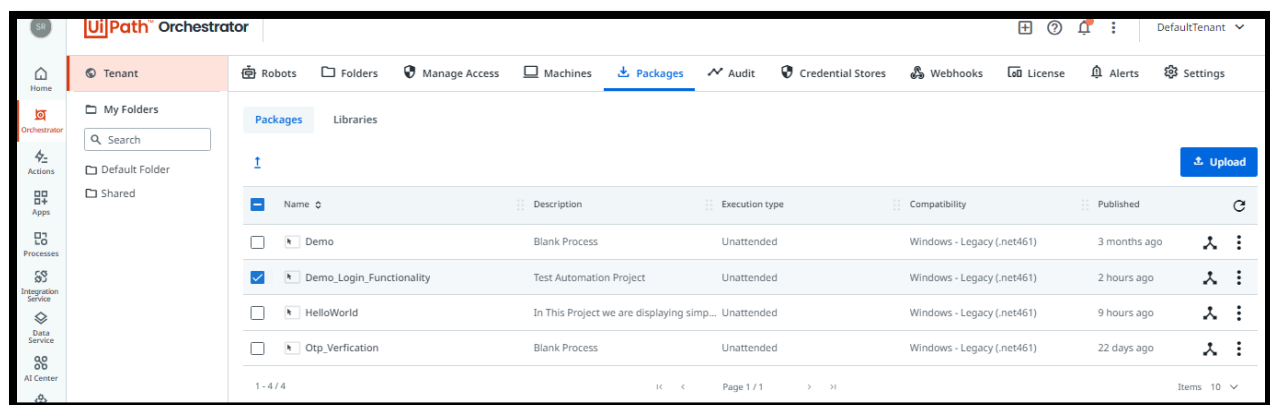


Click on save

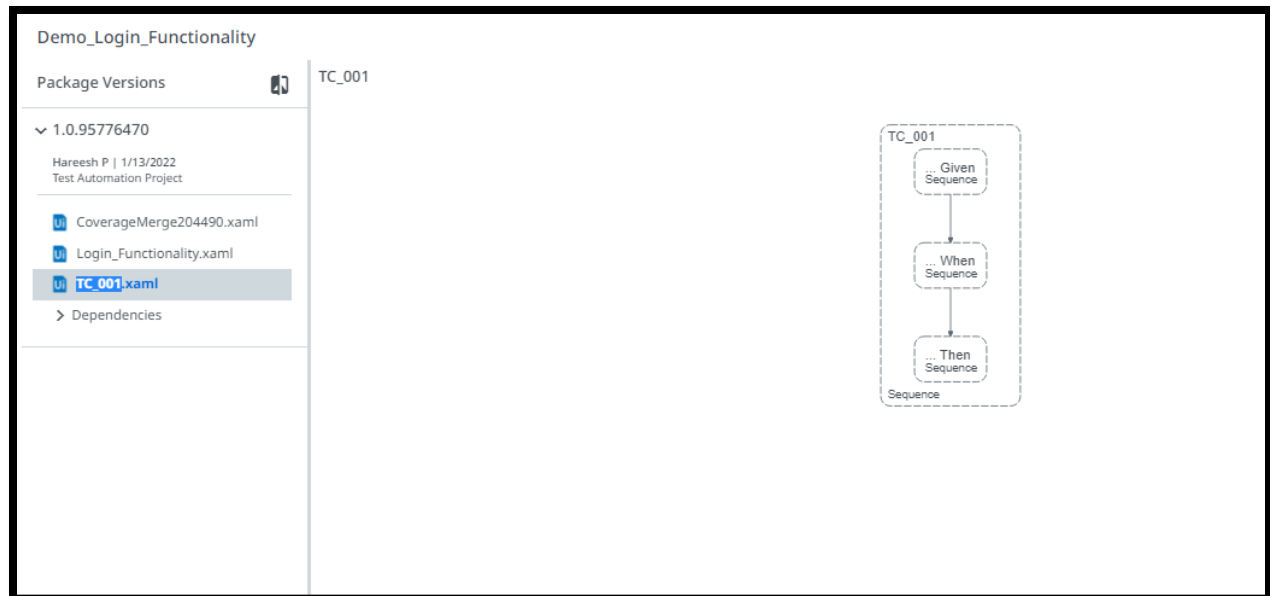


Go To Orchestrator Dashboard →Package→See whatever the project we publish is appear or not→go to folder that we publish→Go to Automation→process→Add Process →Here provide Process configuration ,Package Requirement,Additional Settings→at last click on create

Packages: As soon as you publish your Test Cases From Studio it is uploaded in Orchestrator Package section.



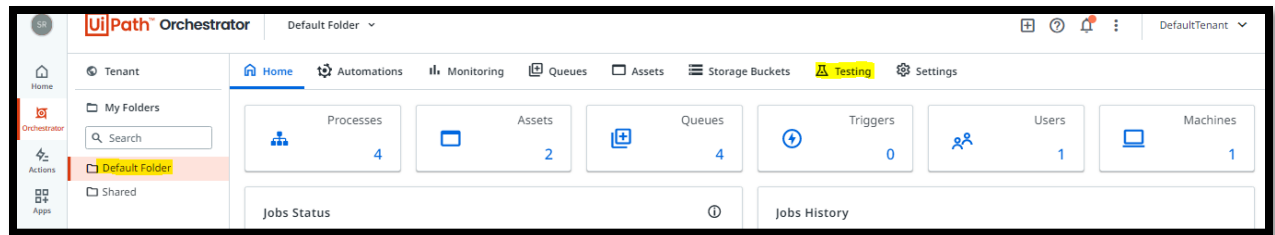
Go to Explore Package their we can see the Structure of over project



Process: Navigate To Processes section and create process by adding your package name,select environment(Testing Environment)

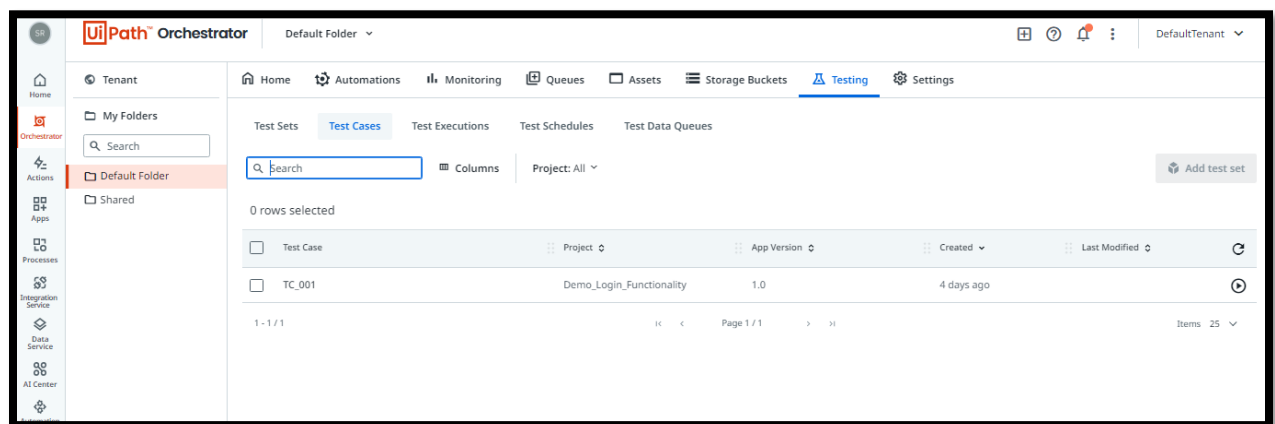
The screenshot shows the 'Add Process' dialog in the 'Processes' section of UiPath Orchestrator. The dialog has three steps: '1 Process Configuration', '2 Package Requirements', and '3 Additional Settings'. The 'Package Overview' section includes a 'Package Source Name' dropdown set to 'Demo_Login_Functionality', a 'Package Version' dropdown set to '1.0.95776470', and a warning message: 'If your process is using UiPath.System.Activities you need version 19.9 or higher in order to execute it in a modern folder.' The 'Runtime Arguments' section states: 'Runtime arguments for Testing processes can only be set at the Test Set level'. At the bottom, there are buttons for 'Cancel', 'Back', 'Next', and 'Create'.

Go to Testing Section

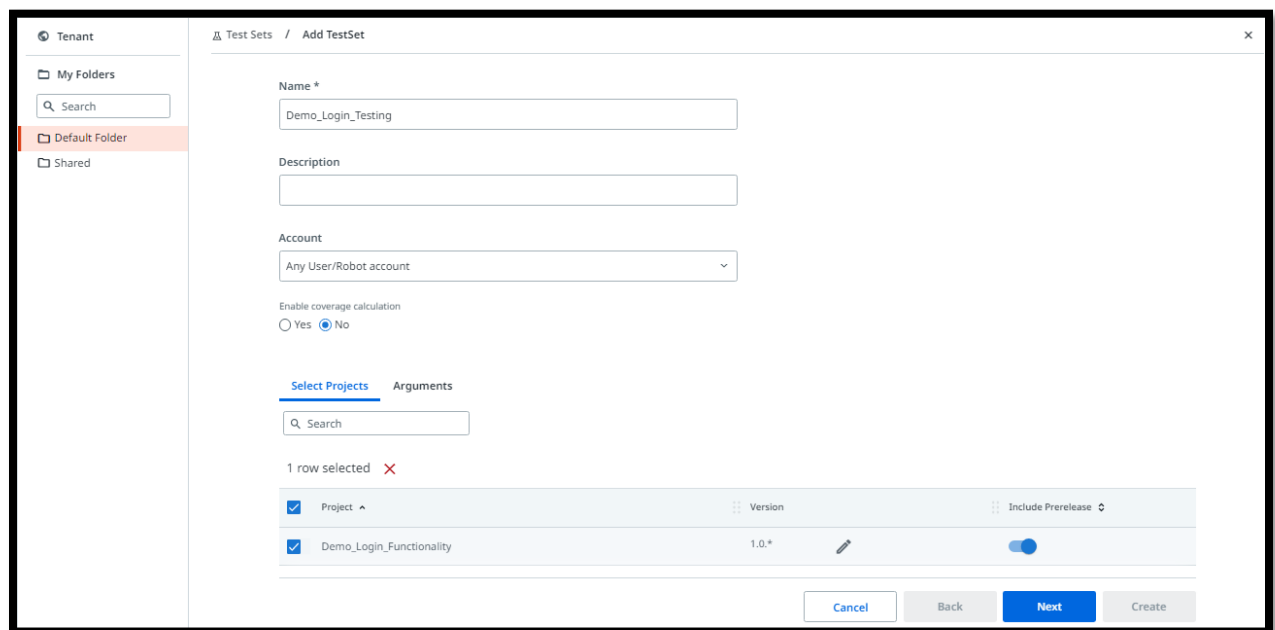


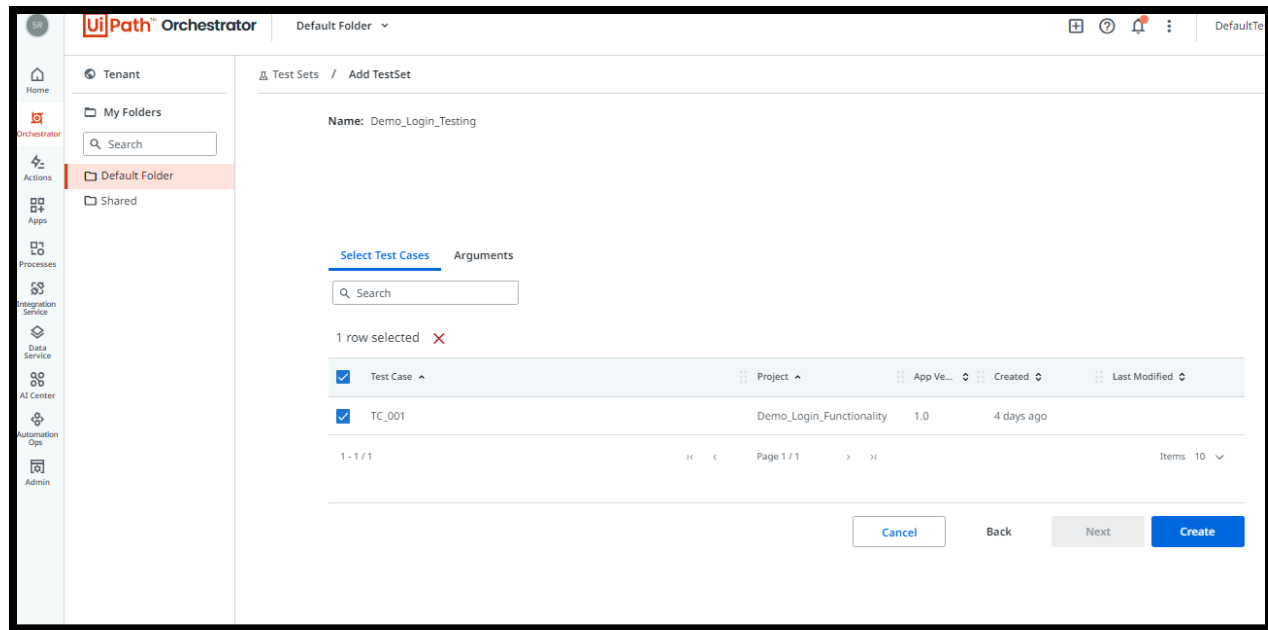
Test Case Execution

Test Cases: After Successfully creation of processes navigate to testing section and go to Test Cases Section we can view all test cases.

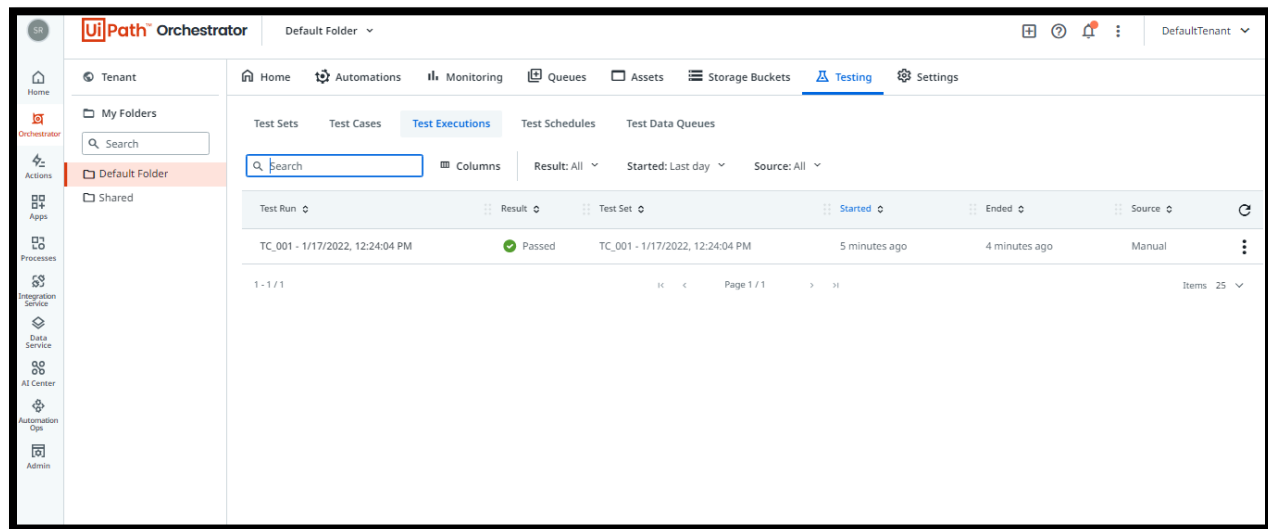


Test Set: To create Test Set navigate to Test set section in Testing, give your Test Set Name, description, environment, Filter by Project and your test cases





Test Execution: Select run button on Test set it will immediately Start execution of test cases we can view Status of test cases 'pending', 'Runing', 'in progress'



We can view Test cases Result as a passes or Failed.

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