GBT User Manual

Grey box testing (GBT) was developed so that the users working on the Pega applications having limited knowledge in Pega BPM platform could leverage the GBT tool in their testing efforts to test out the Pega Ruletypes developed for their applications.

About the tool:

GBT is developed using Maantic's existing Selenium automation framework. The tool takes input from a user prepared input sheet and then perform the automation testing for the Pega ruletypes. Currently GBT is used for validating the following Ruletypes in Pega:

- Activity
- Decision table
- SLA

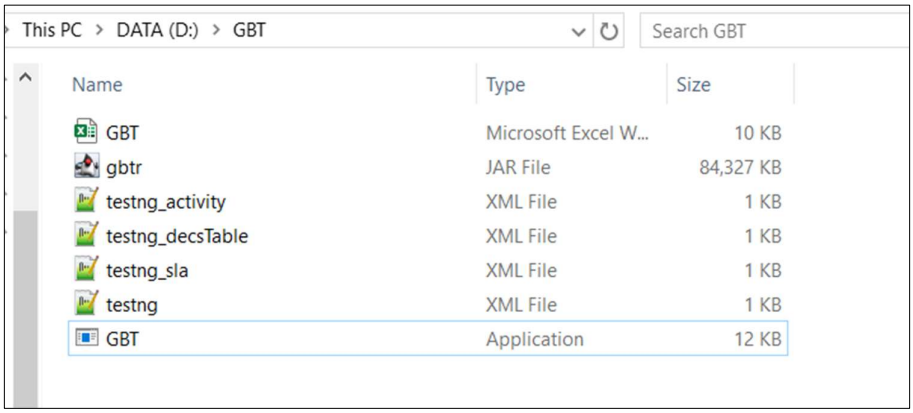
Prerequisites:

Currently developed for Pega 8.8 platform but with few tweaks it can be used for multiple versions.

Latest JRE should be present in the user's machine.

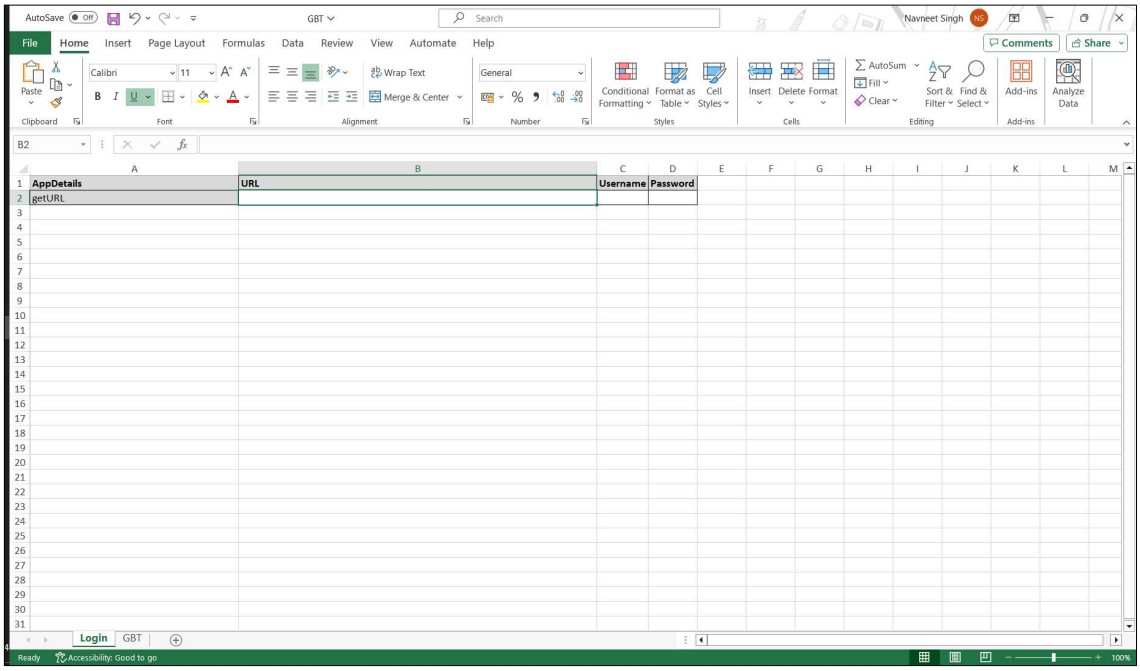
Setup/Installation

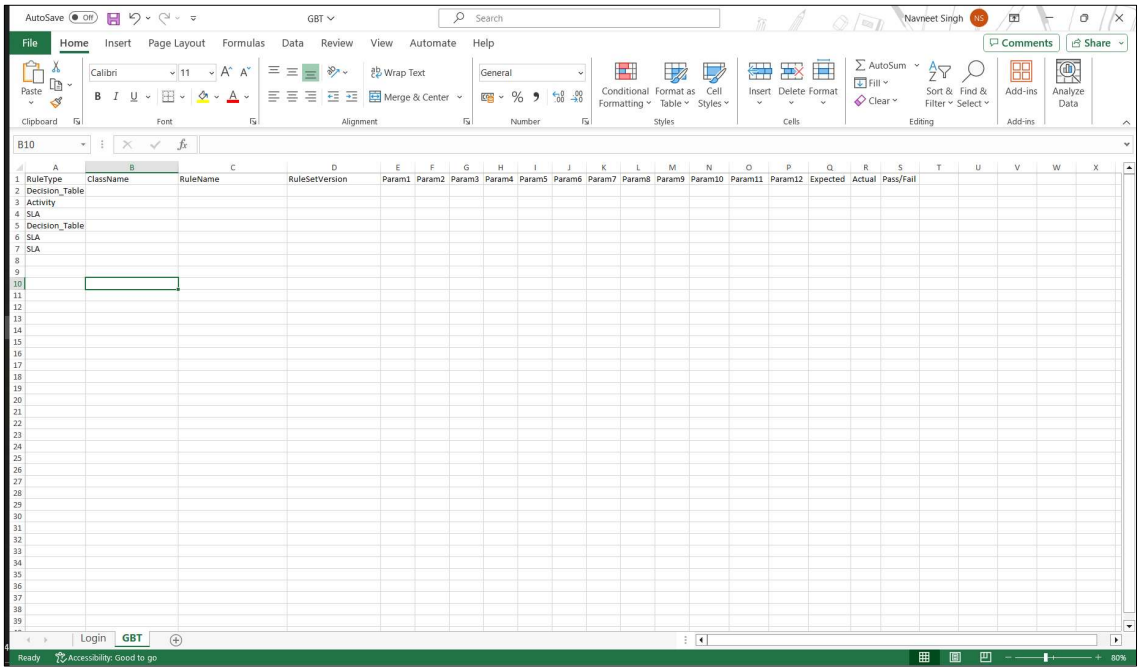
1. Create a directory named 'GBT' on your drive and download all the necessary files into it.
   Downloaded Files: 'GBT.xlsx', 'gbtr.jar', 'testng_activity.xml', 'testng_decsTable.xml', 'testng_sla.xml', 'testng.xml' & 'GBT.exe'



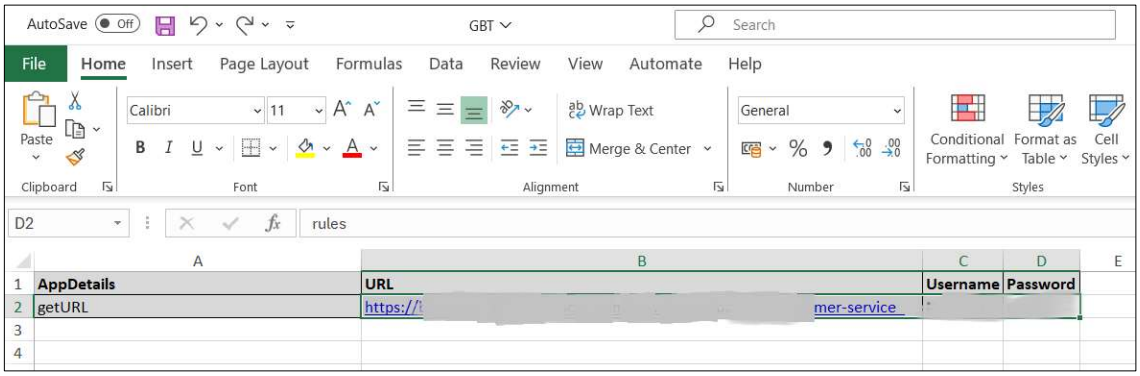
1.a. Also create a result folder named "GBT-Output" inside the GBT folder.

2. Open the ‘GBT.xlsx’ file which will be served as an input sheet to the tool.

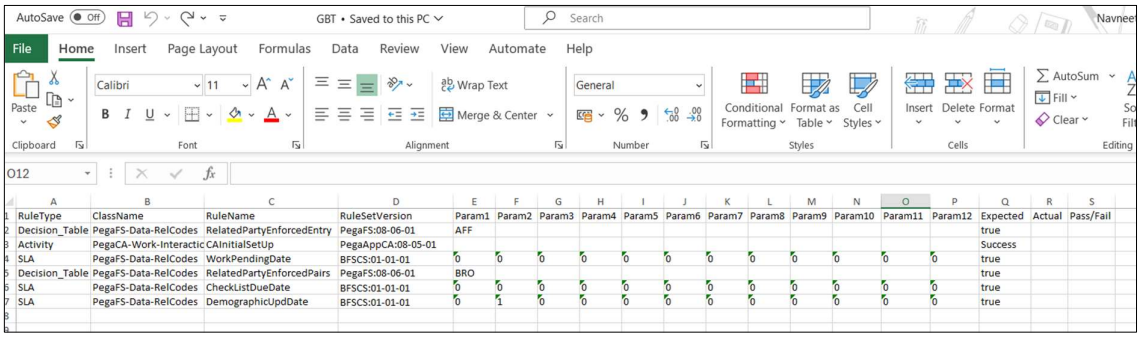




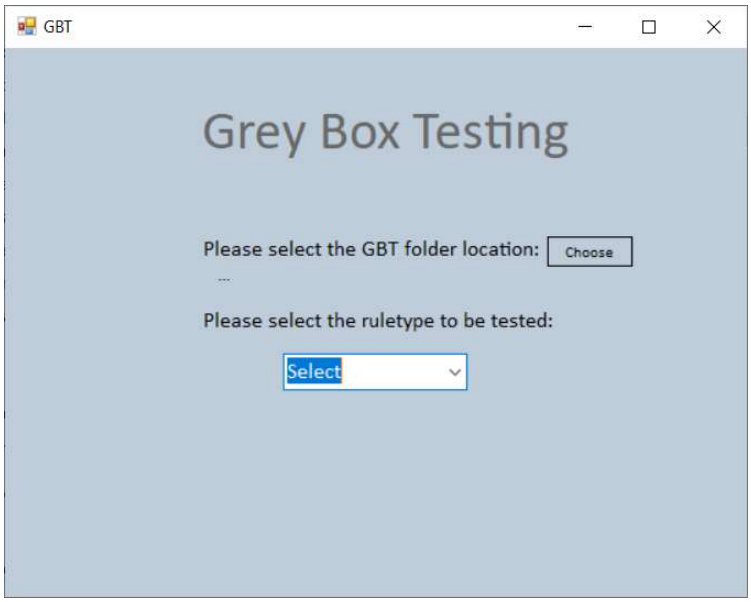
3. Provide the application's Dev studio login credentials & URL in the fields under 'Login' sheet.



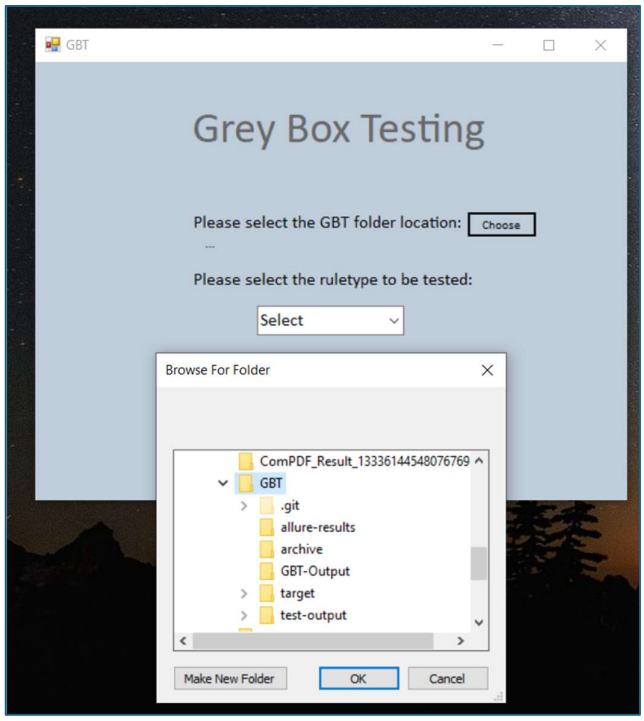
4. Provide the details for 'Activity', 'Decision Table' & 'SLA' which are to be tested, under 'GBT' sheet.

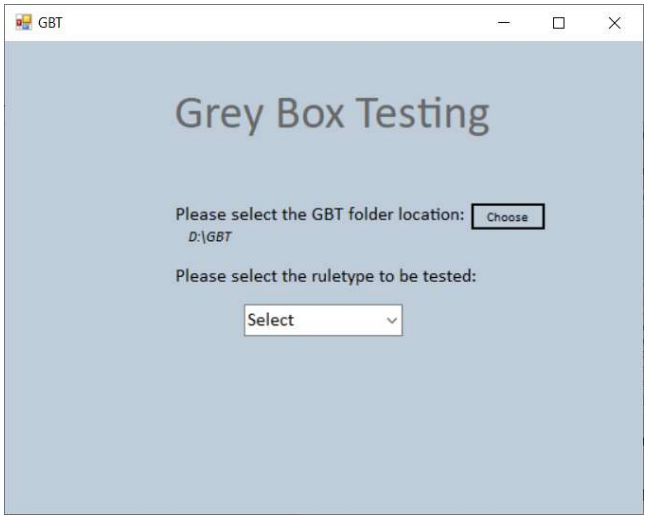


5. Now run the 'GBT.exe' application.

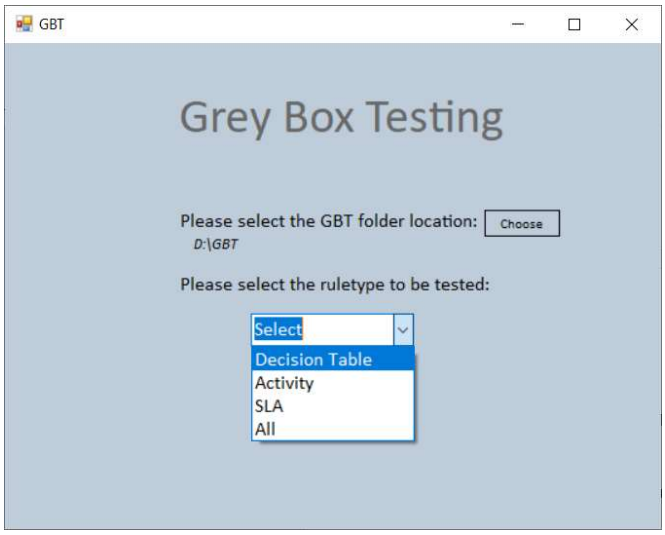


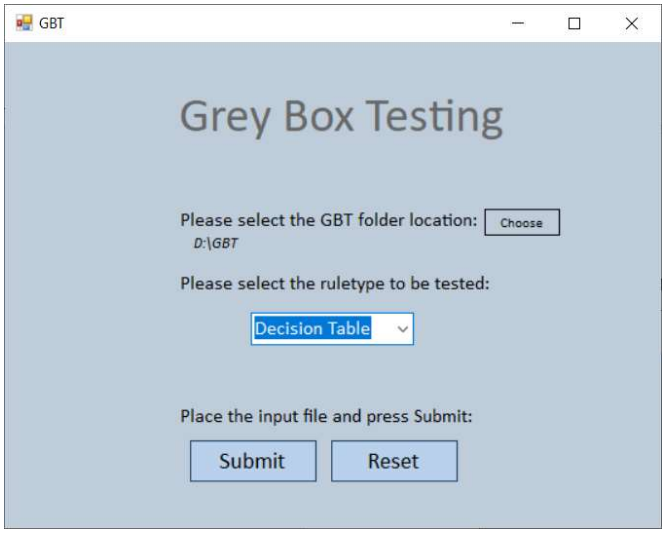
5.a. Select the folder location in which the downloaded files are present for GBT tool.



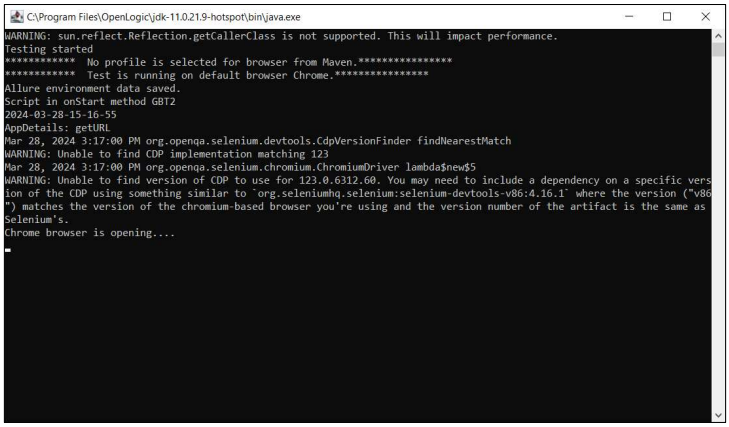


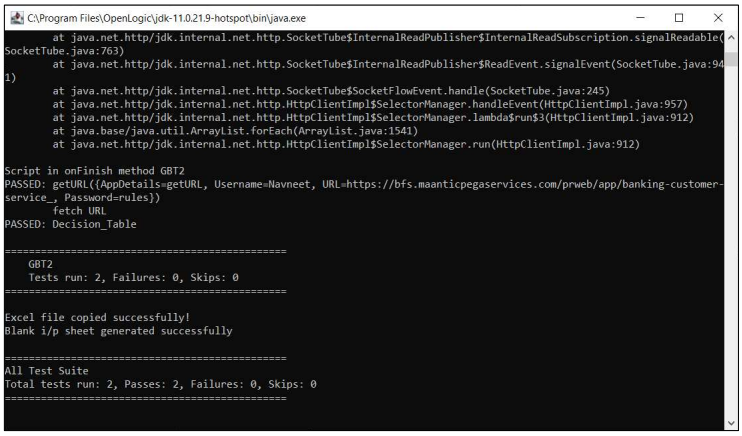
5.b. Now from the dropdown, select the ‘ruletype’ which is to be tested. (Below we are choosing ‘Decision Table’ only.)



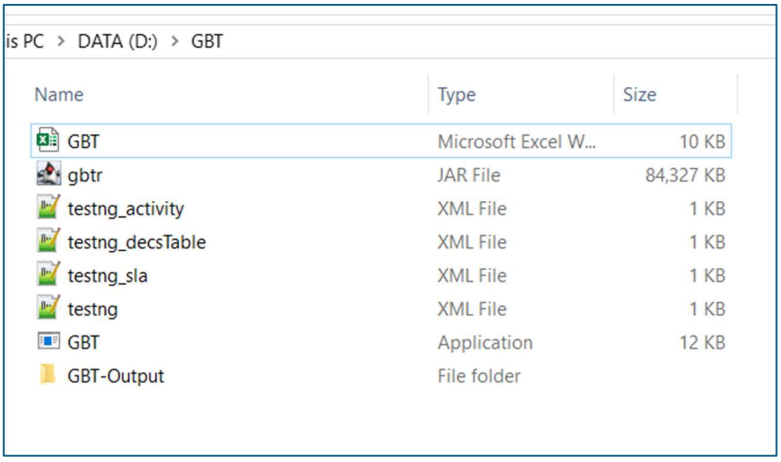


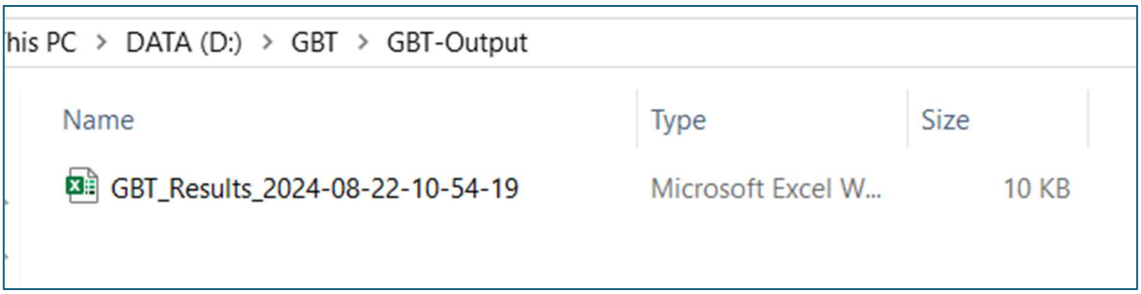
6. Now click on ‘Submit’ and wait for the output report file to be generated.

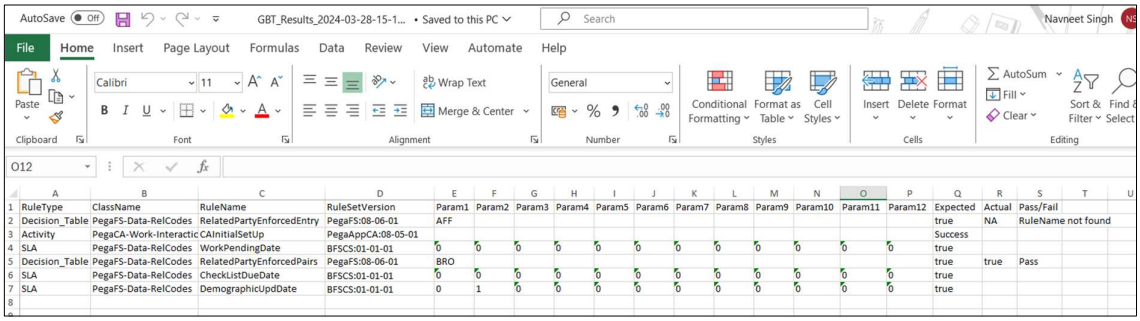




7. After a successful run, open the latest excel report file which is generated ‘GBT_Results_xxxxx.xlsx’ from the **‘GBT-Output’** folder location.







	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	RuleType	ClassName	RuleName	RuleSetVersion	Param1	Param2	Param3	Param4	Param5	Param6	Param7	Param8	Param9	Param10	Param11	Param12	Expected	Actual	Pass/Fail		
2	Decision_Table	PegaFS-Data-RelCodes	RelatedPartyEnforcedEntry	PegaFS:08-06-01	AFF												true	NA	RuleName not found		
3	Activity	PegaCA-Work-Interactic	CAInitialSetUp	PegaAppCA:08-05-01													Success				
4	SLA	PegaFS-Data-RelCodes	WorkPendingDate	BFSCS:01-01-01	0	0	0	0	0	0	0	0	0	0	0	0	true				
5	Decision_Table	PegaFS-Data-RelCodes	RelatedPartyEnforcedPairs	PegaFS:08-06-01	BRO												true	true	Pass		
6	SLA	PegaFS-Data-RelCodes	CheckListDueDate	BFSCS:01-01-01	0	0	0	0	0	0	0	0	0	0	0	0	true				
7	SLA	PegaFS-Data-RelCodes	DemographicUpdDate	BFSCS:01-01-01	0	1	0	0	0	0	0	0	0	0	0	0	true				
8																					

Since we chose to run only 'Decision Table' ruletype, therefore the results for decision table are displayed in the 'Pass/Fail' column in the above image.

Similarly, by selecting different ruletype from the dropdown of the 'GBT.exe' application, we can perform different testing.