MIL tesing Framework

Start

Click on "**Browse**" button to browse and select the software model which needs to be tested.

Selected model will be displayed in the GUI. and checks for the Test Plan, Test Vector and Test harness model in the same directory of the selected model.

Source SW model: sw_name.slx
Test Plan: <sw_name>_TestPlan.xlsx or <sw_name>_TestPlan.xls
Test Vector file: <sw_name>_TestVector.xlsm
Test Harness model name: <sw_name>_MIL_Test.slx
Data disctionary: <name>_dd.sldd or <name>_dd.m

If Test plan, Test Vector and Test harness model exists

No → Message: Test Environment not exists. Please create

Click on"**Create test harness**" button once it enables

Resolve the issue manually by referring to error message

Framework creates the Test Harness model and Test Plan ,Test Vector templates and saved in the same directory of selected software model.

Yes

Test plan, Test Vector and Test Harness model names will be displayed in respective fields of GUI.

Yes ← If Test Environment created successfully → No → Message: Test Environment creation fail

User can open Test plan, Test Vector and Test Harness model files by clicking button next to respective fields in GUI.

If Test Plan contains Test cases data

No → Message: Test Plan suspected as Template only.

Yes

Click on "**Update Data**" button to update the test cases from Test Plan to Test vector

Update Test Plan with test cases in specified format

Framework will update the test cases from Test Plan to Test vector

If Test Vector updated successfully

No → Error message

Yes

If user wants to execute other Testing type

No

Yes → Select the **Testing Type**

If Testing type is "Cumulative"

Yes → Select "**Coverage**" check (optional) and Click on "**Execute**" button → Framework executes all testcases in individual simulations and update the results in Test Vector

else

If Testing type is "Requirement ID"

Yes → Select the **Req. ID** which needs to be tested and Select "**Plot**" check(optional) and Click on "**Execute**" button → Framework executes all testcases which are mapped to the selected Req. ID and displays the consolidated result in Message box window.

else

If Testing type is "Test Case ID"

Yes → Select the **TestCase ID** which needs to be tested and Select "**Plot**" check(optional) and Click on "**Execute**" button → Framework executes selected TC and displays the result in Message box window.