Project Name: MODFLOW FLEX	
Test Case	
Test Case ID - Jira Reference: TC-5	**Test Designed by:** Tiago Costa
Test Priority: High	**Test Designed date:** 06-20-2023
Module Name: Groundwater Model Flow	**Test Executed by:** John Doe
Test Title: Groundwater Model Flow creation	**Test Execution date:** 06-28-2023
Description: Create a new groundwater flow model	

Pre-conditions:
1. The Visual MODFLOW Flex 9.0 64-bit application is installed and functioning properly.
2. The user has appropriate access privileges to create groundwater models.
3. The user has a valid dataset or inputs available for creating the groundwater model.
4. All required dependencies, such as software libraries or database connections, are available and properly configured.

Story:

As a hydrogeologist
I want to create a new groundwater model with accurate parameters

Acceptance criteria:

Scenario #1: Create a new groundwater model with validated parameters
Given I am on the model creation page
When I enter valid parameters
Then the model should be created successfully
And all the entered data should be preserved for further analysis and simulations

Post-conditions scenario #1:
- The model is successfully created and stored in the application's database or file system.
- All entered parameter values are accurately associated with the created model.
- The user can proceed with further analysis and simulations using the created model.

Scenario #2: Create a new groundwater model with invalid parameters
Given I am on the model creation page
When I enter invalid parameters
Then an error message should be displayed
And the model should not be created
And the entered data should not be preserved

Post-conditions scenario #2:
- An error message is displayed indicating the validation failures for the entered parameters.
- The model is not created or stored in the application's database or file system.
- The previously entered data remains intact and unaffected

Scenario #3: Create a new groundwater model with missing parameters
Given I am on the model creation page
When I enter some parameters
And leave some parameters empty
Then an error message should be displayed for the missing parameters
And the model should not be created
And the entered data should not be preserved

Post-conditions scenario #3:
- An error message is displayed indicating the missing parameters that need to be entered.
- The model is not created or stored in the application's database or file system.
- The previously entered data remains intact and unaffected.