**Test Flows and Test Cases for Petstore API**

**Test Flow 1: Handle Error Response**

This flow covers a scenario where an error response is received while trying to create a new pet.

**Test Case 1.1**: Create a new pet with an invalid ID

* **Preconditions:** None
* **Test Steps:**
  1. Create a new pet with an invalid ID.
* **Expected Results:**
  1. Ensure that the response has a status code of 500.
  2. Ensure that the response contains an error message of "something bad happened".

**Test Flow 2: Create a New Pet**

This flow covers a scenario where a new pet is created successfully.

Test Case 2.1: Create a new pet with a random ID, name, and status

* **Preconditions:** None
* **Test Steps:**
  1. Create a new pet with a random ID, name, and status.
* **Expected Results:**
  1. Ensure that the response has a status code of 200.
  2. Ensure that the response contains the same ID, name, and status that were used in the request.

**Test Flow 3: Retrieve a Pet**

This flow covers a scenario where an existing pet is retrieved.

Test Case 3.1: Retrieve an existing pet

* **Preconditions:**
  + **Create a new pet with a random ID, name, and status.**
* **Test Steps:**
  + Retrieve the existing pet using its ID.
* **Expected Results:**
  + Ensure that the response has a status code of 200.
  + Ensure that the response contains the same ID, name, and status that were used to create the pet.

Test Case 3.2: Retrieve a non-existing pet

* **Preconditions:** None
* **Test Steps:**
  1. Retrieve a non-existing pet using a random ID.
* **Expected Results:**
  1. Ensure that the response has a status code of 404.
  2. Ensure that the response contains an error message of "Pet not found".

**Test Flow 4: Update a Pet**

This flow covers a scenario where an existing pet is updated.

Test Case 4.1: Update an existing pet

* **Preconditions:**
  + **Create a new pet with a random ID, name, and status.**
* **Test Steps:**
  + Update the existing pet using its ID with a new name and status.
* **Expected Results:**
  + Ensure that the response has a status code of 200.
  + Ensure that the response contains the updated name and status that were used to update the pet.

**Test Flow 5: Delete a Pet**

This flow covers a scenario where an existing pet is deleted.

Test Case 5.1: Delete an existing pet

* **Preconditions:**
  + Create a new pet with a random ID, name, and status.
* **Test Steps:**
  + Delete the existing pet using its ID.
* **Expected Results:**
  + Ensure that the response has a status code of 200.
  + Ensure that the response contains the same ID that was used to delete the pet.

Test Case 5.2: Delete a non-existing pet

* **Preconditions:** None
* **Test Steps:**
  1. Delete a non-existing pet using a random ID.
* **Expected Results:**
  1. Ensure that the response has a status code of 404.
  2. Ensure that the response contains an error message of "Pet not found".

**Test flows and test cases for UI Test cases**

Test Flows:

1. Navigate to the Automation Test Store and sign in.
2. Validate a specific hair care product.
3. Add and remove products, and proceed to checkout.

**Test Case 1**: Navigate to the Automation Test Store and sign in.

**Steps:**

1. Navigate to the Automation Test Store.
2. Click on the "Sign in" link.
3. Enter valid credentials to sign in.

**Expected Results:**

1. The Automation Test Store should be displayed.
2. The "Sign in" page should be displayed.
3. The user should be able to sign in successfully.

Test Case 2: Validate a specific hair care product.

Steps:

1. Navigate to the Automation Test Store.
2. Click on the "Hair Care" category.
3. Click on the "Conditioner" subcategory.
4. Click on the "Seaweed Conditioner" product.
5. Get the header text.
6. Verify that the product thumbnail includes "Seaweed Conditioner".

**Expected Results:**

1. The Automation Test Store should be displayed.
2. The "Hair Care" category should be displayed.
3. The "Conditioner" subcategory should be displayed.
4. The "Seaweed Conditioner" product should be displayed.
5. The header text should be retrieved.
6. The product thumbnail should be retrieved.
7. The product thumbnail should include "Seaweed Conditioner".

**Test Case 3**: Add and remove products, and proceed to checkout.

**Steps:**

1. Navigate to the Automation Test Store.
2. Click on the "Hair Care" category.
3. Click on the "Conditioner" subcategory.
4. Click on the "Seaweed Conditioner" product.
5. Add 2 items to the cart.
6. Remove the added items from the cart.
7. Click on the "Books" category.
8. Click on the "Paperback" product.
9. Add 1 item to the cart.
10. Proceed to checkout.
11. Click on the "Checkout" button.
12. Verify that the URL includes "success"
13. Click on the "Continue" button.
14. Verify that the welcome message contains **Welcome to the Automation Test Store!**

**Expected Results:**

1. The Automation Test Store should be displayed.
2. The "Hair Care" category should be displayed.
3. The "Conditioner" subcategory should be displayed.
4. The "Seaweed Conditioner" product should be displayed.
5. 2 items should be added to the cart.
6. The added items should be removed from the cart.
7. The "Books" category should be displayed.
8. The "Paperback" product should be displayed.
9. 1 item should be added to the cart.
10. The user should be able to proceed to checkout.
11. The "Checkout" page should be displayed.
12. The URL should include "success".
13. The user should be able to continue to the next page.
14. The welcome message should contain **Welcome to the Automation Test Store!**
15. **Formun Üstü**