Problem:

Use the Star Wars API to retrieve some information

Scenario:

You are an SDET tasked with creating automated tests for the Star Wars API (SWAPI) to ensure its functionality is working as expected. The SWAPI base URL is https://swapi.dev/api. Your goal is to implement automated tests using Mocha and axios to cover essential scenarios.

Requirements:

Retrieve a List of Characters:
1. Write a test case to retrieve a list of all Star Wars characters from the API
   a. Verify that the response status is 200.
   b. Verify that at least one character is returned.
2. Write a test case to verify that details for a specific character (e.g., Luke Skywalker) can be retrieved successfully:
   a. Verify that the response status is 200.
   b. Verify that the response includes the correct character details, and only one result is returned.
3. Write a test case to verify that a list of all Star Wars films can be retrieved.
   a. Verify that the response status is 200.
   b. Verify that at least one film is returned.
4. Write a test case to verify that the details for a specific film (e.g., A New Hope) can be retrieved.
   a. Verify that the response status is 200.
   b. Verify that the response includes the correct film details, and that only one result is returned.

Follow the below steps to set up the testing environment:
- npm install -g mocha
- npm install axios
- Mocha <filename>

Additional Considerations:
- Handle potential exceptions and errors appropriately in your code.

- Parameterize the requests (e.g., include character and film names) to demonstrate flexibility.
- Ensure that the function is reusable and follows best practices.
- Provide comments in your code to explain your thought process and any assumptions made.

Evaluation Criteria:

- Candidates will be evaluated based on the following criteria:
  - Correctness of the automated test cases.
  - Proper use of Mocha and axios.
  - Handling of edge cases and exceptions.
  - Code readability and organization.
  - Reusability and maintainability of the test script.

Starter Code: (Feel free to use different techniques. This is just a suggestion.)

```javascript
const axios = require('axios');
const assert = require('assert');
// SWAPI endpoint
const swapiUrl = "https://swapi.dev/api";



// Test Suite
describe('Star Wars API Tests', function () {


    // Test Case 1: Retrieve a list of all Star Wars characters
    it('should retrieve a list of all Star Wars characters', async
function () {
        const response = await axios.get(`${swapiUrl}/people`);
        assert.strictEqual(response.status, 200, 'Unexpected status
code');
        // TODO: Implement the remainder of this test case
    });


    // Test Case 2: Retrieve details for a specific Star Wars character
    it('should retrieve details for a specific Star Wars character',
async function () {
```

```
        const characterName = "Luke Skywalker";
        // TODO: Implement the remainder of this test case
    });


    // Test Case 3: Retrieve a list of all Star Wars films
    it('should retrieve a list of all Star Wars films', async function ()
{
        // TODO: Implement the test case
    });


    // Test Case 4: Retrieve details for a specific Star Wars film
    it('should retrieve details for a specific Star Wars film', async
function () {
        // TODO: Implement the test case
    });
});


// Run the tests
// This is just a placeholder, candidates might need to customize this
based on their project structure.
// For example, if the script is in a "test" folder, candidates can use
`mocha test/*.js`.
// Make sure Mocha is installed either globally or as a devDependency.
// npm install -g mocha
// or
// npm install --save-dev mocha
```

Estimated time to complete: 1 hour (+-).
Please return the test file and time to complete to Tate Illian for
evaluation.