

Harry Potter API testing

In this assignment, you will test Happy Potter API created based on Harry Potter movie series. Full documentation for Happy Potter API can be found here: <https://www.potterapi.com/>. Watch all the movies or read all the books to better understanding of this API (this is optional). To test this API, you have to register and get access key. Sign up for access key. Access key is required for most of the requests.

Import the Postman collection using this link: <https://www.getpostman.com/collections/5ceaa3e2705188383075>

In postman create an environment for this API. Add the following variables:

1. Variable name: **baseUrl**
Variable value: <https://www.potterapi.com/v1/>
2. Variable name: **apiKey**
Variable value: your api key from the <https://www.potterapi.com/>

Automate the given test cases. You can use any existing project. You can automate all test cases in same class or different classes.

For verifying all of the use *pojos*. Create pojo classes for **Character** and **House** in *pojos* package based on the provided json files.

Verify sorting hat

1. Send a get request to [/sortingHat](#). Request includes :
2. Verify status code **200**, content type **application/json; charset=utf-8**
3. Verify that response body contains one of the following houses:
"Gryffindor", "Ravenclaw", "Slytherin", "Hufflepuff"

Verify bad key

1. Send a get request to [/characters](#). Request includes :
 - Header **Accept** with value **application/json**
 - Query param **key** with value **invalid**
2. Verify status code **401**, content type **application/json; charset=utf-8**
3. Verify response status line include message **Unauthorized**
4. Verify that response body says **"error": "API Key Not Found"**

Verify no key

1. Send a get request to [/characters](#). Request includes :
 - Header **Accept** with value **application/json**
2. Verify status code **409**, content type **application/json; charset=utf-8**
3. Verify response status line include message **Conflict**
4. Verify that response body says **"error": "Must pass API key for request"**

Verify number of characters

1. Send a get request to [/characters](#). Request includes :
 - Header **Accept** with value **application/json**
 - Query param **key** with value **{{apiKey}}**
2. Verify status code **200**, content type **application/json; charset=utf-8**
3. Verify response contains **194** characters

Verify number of character id and house

1. Send a get request to `/characters`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
2. Verify status code `200`, content type `application/json; charset=utf-8`
3. Verify all characters in the response have **id** field which is not empty
4. Verify that value type of the field **dumbledoresArmy** is a boolean in all characters in the response
5. Verify value of the house in all characters in the response is one of the following:
"Gryffindor", "Ravenclaw", "Slytherin", "Hufflepuff"

Verify all character information

1. Send a get request to `/characters`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
2. Verify status code `200`, content type `application/json; charset=utf-8`
3. Select **name** of any **random** character
4. Send a get request to `/characters`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
 - Query param **name** with value from step 3
5. Verify that response contains the same character information from step 3. Compare all fields.

Verify name search

1. Send a get request to `/characters`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
 - Query param **name** with value **Harry Potter**
2. Verify status code `200`, content type `application/json; charset=utf-8`
3. Verify **name** **Harry Potter**
4. Send a get request to `/characters`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
 - Query param **name** with value **Marry Potter**
5. Verify status code `200`, content type `application/json; charset=utf-8`
6. Verify response body is empty

Verify house members

1. Send a get request to `/houses`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
2. Verify status code `200`, content type `application/json; charset=utf-8`
3. Capture the **id** of the **Gryffindor** house
4. Capture the **ids** of the all members of the **Gryffindor** house
5. Send a get request to `/houses/:id`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
 - Path param **id** with value from step 3
6. Verify that response contains the same **member ids** as the step 4

Verify house members again

1. Send a get request to `/houses/:id`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
 - Path param **id** with value `5a05e2b252f721a3cf2ea33f`
2. Capture the ids of all members
3. Send a get request to `/characters`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
 - Query param **house** with value `Gryffindor`
4. Verify that response contains the same member ids from step 2

Verify house with most members

1. Send a get request to `/houses`. Request includes :
 - Header **Accept** with value `application/json`
 - Query param **key** with value `{{apiKey}}`
2. Verify status code `200`, content type `application/json; charset=utf-8`
3. Verify that `Gryffindor` house has the most members