

## Robot Framework RequestsLibrary



- Checkout Product from Store Service flow
- 1.Get Product List
- 2.Get Product Detail
- 3.Order Product
- 4.Confirm Payment

- Test Cases: Checkout Dinner Set from Store Service
- 1.Get Product List
  - o input URI PATH: /api/v1/product
  - input HTTP Method: GET
  - input HTTP Headers: Accept application/json
  - assert http status code should be 200
  - assert products should have 2 items
  - assert products should contain '43 Piece dinner Set'

#### 2.Get Product Detail

- o input URI PATH: /api/v1/product/{product id}
- o input HTTP Method: GET
- input HTTP Headers: Accept application/json
- o assert http status code should be 200
- assert product name should contain '43 Piece dinner Set'

- Test Cases: Checkout Dinner Set from Store Service
- 3.Order Product
  - o input URI PATH: /api/v1/order
  - input HTTP Method: POST
  - input HTTP Headers: Accept application/json
  - o input HTTP Headers: Content-Type application/json
  - o input HTTP Body
  - assert http status code should be 200
  - o assert product total price should be 14.95

#### 4.Confirm Payment

- o input URI PATH: /api/v1/confirmPayment
- input HTTP Method: POST
- input HTTP Headers: Accept application/json
- input HTTP Headers: Content-Type application/json
- input HTTP Body
- o assert http status code should be 200
- o assert notification message should be 'วันเวลาที่ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งซื้อ 8004359104 คุณสามารถติดตามสินค้าผ่านช่องทาง Kerry หมายเลข 1785261900'

PATH: /api/v1/product

Method: GET

Headers:

Accept application/json

PATH: /api/v1/product/{product id}

Method: GET

Headers:

Accept application/json

PATH: /api/v1/order

Method: POST

Headers:

Accept application/json

Content-Type application/json

Body

PATH: /api/v1/confirmPayment

Method: POST

Headers:

Accept application/json

Content-Type application/json

Body



http status code is 200 product total price is 14.95 order id is 8004359104



notification message is 'วันเวลาที่ ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งชื้อ 8004359104 คุณ สามารถติดตามสินค้าผ่านช่องทาง

Kerry หมายเลข 1785261900'

Get Product List

http status code is 200 products have 2 items



http status code is 200 product name is '43 Piece dinner Set'



PATH: /api/v1/product

Method: GET

Headers:

Accept application/json

PATH: /api/v1/product/{product id}

Method: GET

Headers:

Accept application/json

PATH: /api/v1/order

Method: POST

Headers:

Accept application/json

Content-Type application/json

Body

PATH: /api/v1/confirmPayment

Method: POST

Headers:

Accept application/json

Content-Type application/json

Body



http status code is 200 product total price is 14.95 order id is 8004359104



notification message is 'วันเวลาที่ ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งชื้อ 8004359104 คุณ สามารถติดตามสินค้าผ่านช่องทาง

Kerry หมายเลข 1785261900'

Get Product List

http status code is 200 products have 2 items



http status code is 200 product name is '43 Piece dinner Set'



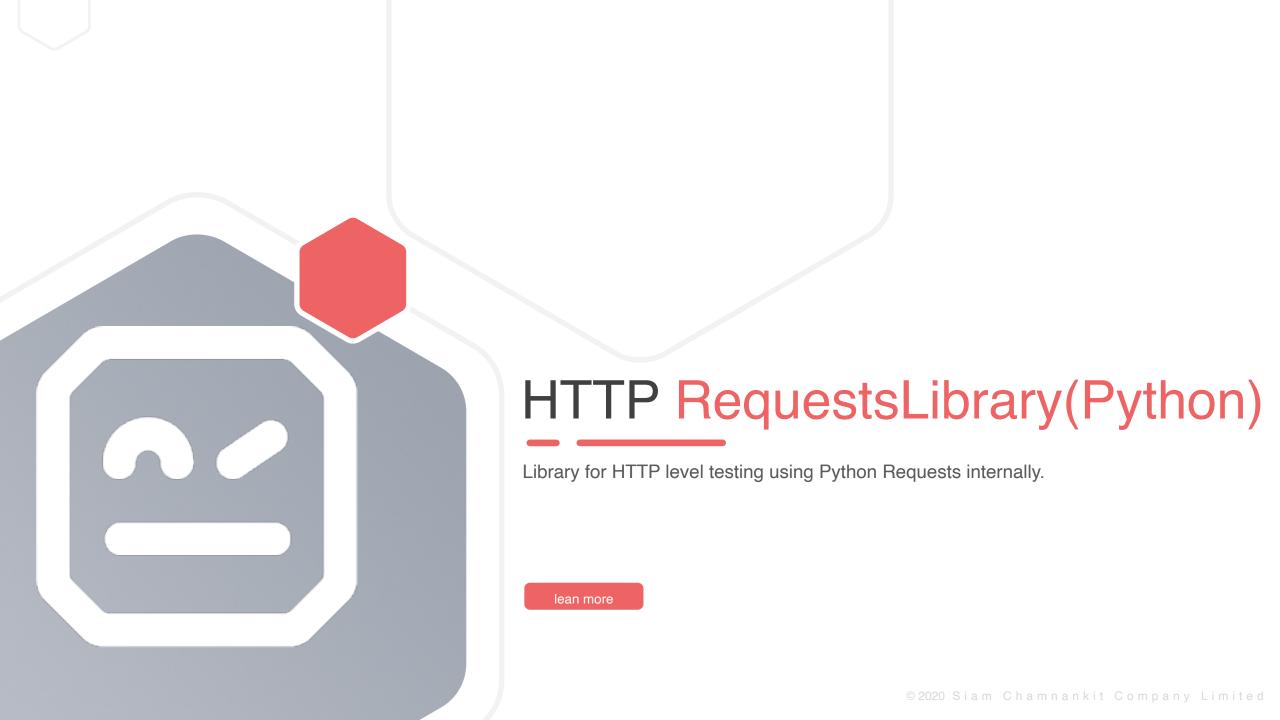
### HTTP underneath

Call Get Product List

via curl

```
curl -i -v http://localhost:8000/api/v1/product -H "Accept:application/json"
> GET /api/v1/product HTTP/1.1
> Host: localhost:8000
> User-Agent: curl/7.64.1
> Accept:application/json
< HTTP/1.1 200 OK
< Content-Type: application/json; charset=utf-8
< Connection: close
< Date: Thu, 10 Dec 2020 09:10:08 GMT
< Transfer-Encoding: chunked
  "total": 2,
  "products": [
      "id": 1.
      "product name": "Balance Training Bicycle",
      "product price": 119.95,
      "product image": "/Balance Training Bicycle.png"
      "id": 2.
      "product name": "43 Piece dinner Set",
      "product price": 12.95,
      "product_image": "/43_Piece_dinner_Set.png"
* Closing connection 0
```

- •How to pass the return order id from 'Order Diner Set' to 'Confirm Payment' order id?
- •Which parameters in each task that we have to concern?
  - consequence
  - •specific





## Prerequisite(Global Install)

- 1. Python3
- 2. Robot Framework pip install robotframework
- 3. HTTP RequestsLibrary(Python) pip install robotframework-requests
- 4. Check the installed lib pip list



### Prerequisite(Local Install): Linux/Mac

- 1. Python3
- 2. Create Virtual Env
  python -m venv env
  source env/bin/activate
- 3. Robot Framework pip install robotframework
- 4. HTTP RequestsLibrary(Python) pip install robotframework-requests
- 5. Check the installed lib pip list



### Prerequisite(Local Install): Windows

- 1. Python3
- 2. Create Virtual Env
  python -m venv env
  env\Scripts\activate.bat
- 3. Robot Framework pip install robotframework
- 4. HTTP RequestsLibrary(Python) pip install robotframework-requests
- 5. Check the installed lib pip list

## Sections in Test Case Files

Robot Framework data is defined in different sections.

lean more

Create Directory call request-json

### checkout-success.robot

\*\*\* Settings \*\*\*

\*\*\* Variables \*\*\*

\*\*\* Test Cases \*\*\*

\*\*\* Keywords \*\*\*

# Settings in Test Case Files

import RequestsLibrary

```
*** Settings ***
Library RequestsLibrary
```

Create Checkout Diner Set(Test case)

```
*** Test Cases ***
Checkout Dinner Set
Get Product List
Get Product Detail
Order Product
Confirm Payment
```

Get Product List(Keywords)

```
*** Keywords ***
Get Product List
    Create Session toy_store http://localhost:8000
```

### RequestsLibrary Create Session API

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Create Session | alias, url, headers={}, cookies={}, auth=None, timeout=None, proxies=None, verify=False, debug=0, max retries=3, backoff factor=0.1, disable warnings=0, retry status list=[], retry method list=['DELETE', 'OPTIONS', 'HEAD', 'PUT', 'GET', 'TRACE']

Create Session: create a HTTP session to a server

alias Robot Framework alias to identify the session

url Base url of the server

headers Dictionary of default headers

cookies Dictionary of cookies

auth List of username & password for HTTP Basic Auth

timeout Connection timeout

proxies Dictionary that contains proxy urls for HTTP and HTTPS communication

verify Whether the SSL cert will be verified. A CA BUNDLE path can also be provided.

debug Enable http verbosity option more information

https://docs.python.org/2/library/httplib.html#httplib.HTTPConnection.set\_debuglevel

max retries Number of maximum retries each connection should attempt. By default it will retry 3 times in case of connection errors only. A 0 value will disable any kind of retries regardless of other retry settings. In case the number of retries is reached a retry exception is raised.

disable warnings Disable requests warning useful when you have large number of testcases

backoff\_factor Introduces a delay time between retries that is longer after each retry. eg. if backoff\_factor is set to 0.1 the sleep between attemps will be: 0.0, 0.2, 0.4 More info here: https://urllib3.readthedocs.io/en/latest/reference/urllib3.util.html

retry\_method\_list List of uppercased HTTP method verbs where retries are allowed. By default retries are allowed only on HTTP requests methods that are considered to be idempotent (multiple requests with the same parameters end with the same state). eg. set to ['POST', 'GET'] to retry only those kind of requests.

retry status list List of integer HTTP status codes that, if returned, a retry is attempted. eg. set to [502, 503] to retry requests if those status are returned. Note that max\_retries must be greater than 0.

## Run Test Case Files

\$ robot checkout-success.robot

**Get Product List** 

```
*** Keywords ***
Get Product List
    Create Session toy_store http://localhost:8000
    &{accept}= Create Dictionary Accept=application/json
    ${productList}= Get Request toy_store /api/v1/product
    headers=&{accept}
```

## RequestsLibrary Get Request API

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**Get Request** 

alias, uri, headers=None, data=None, json=None, params=None, allow\_redirects=None, timeout=None

Send a GET request on the session object found using the given alias

alias that will be used to identify the Session object in the cache

uri to send the GET request to

params url parameters to append to the uri

headers a dictionary of headers to use with the request

data a dictionary of key-value pairs that will be urlencoded and sent as GET data or binary data that is sent as the raw body content

json a value that will be json encoded and sent as GET data if data is not specified

allow\_redirects Boolean. Set to True if POST/PUT/DELETE redirect following is allowed.

timeout connection timeout

**Get Product List** 

Assert HTTP Status Code

```
*** Keywords ***
Get Product List
    Create Session toy_store http://localhost:8000
    &{accept}= Create Dictionary Accept=application/json
    ${productList}= Get Request toy_store /api/v1/product
    headers=&{accept}
    Status Should Be 200 ${productList}
```

## Run Test Case Files

\$ robot checkout-success.robot

**Assert Product Total** 

```
*** Keywords ***
Get Product List
    Create Session toy_store http://localhost:8000
    &{accept}= Create Dictionary Accept=application/json
    ${productList}= Get Request toy_store /api/v1/product
    headers=&{accept}
    Status Should Be 200 ${productList}
    Should Be Equal ${productList.json()["total"]} ${2}
```



# Variables in Robotframework

Dictionary

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```
response = {
   "total": 2,
   "products": [
       { "id": 1,
           "product_name": "Balance Training Bicycle",
            "product_price": 119.95,
            "product_image": "/Balance_Training_Bicycle.png"
       },
           "id": 2,
            "product_name": "43 Piece dinner Set",
            "product_price": 12.95,
            "product image": "/43 Piece dinner Set.png"
response["total"] == 2
response["products"][0]["id"] == 1
response["products"][0]["product_name"] == "Balance Training Bicycle"
```

## Run Test Case Files

\$ robot checkout-success.robot

Get Product Detail

**Assert Product Detail** 

### Request:

```
Get Product Detail /api/v1/product/2
Get Product Detail product id = 2
```

### Response:

```
Assert product id = 2

Assert product name = 43 Piece dinner Set

Assert product price = 12.95
```



Get Product Detail

checkout-success.robot

**Assert Product Detail** 

```
*** Keywords ***
Get Product Detail
   Create Session
                     toy_store http://localhost:8000
    ${productDetail}=
                        Get Request
                                       toy store
                                                   /api/v1/product/2
    headers=&{accept}
   Request Should Be Successful
                                   ${productDetail}
                     ${productDetail.json()["id"]}
    Should Be Equal
    Should Be Equal
                     ${productDetail.json()["product_name"]}
                                                                43 Piece
dinner Set
    Should Be Equal
                      ${productDetail.json()["product_price"]}
                                                                  ${12.95}
```

Order Dinner Set

**Assert Order Status** 

#### Request:

Order Dinner Set list of [product id = 2, quantity = 1]
Order Dinner Set shipping address
Order Dinner Set headers = Accept=application/json

Content-Type=application/json

#### Response:

Assert total price = 14.95

## RequestsLibrary Get Request API

lean more

**Post Request** 

alias, uri, data=None, json=None, params=None, headers=None, files=None, allow\_redirects=None, timeout=None

Send a POST request on the session object found using the given alias

alias that will be used to identify the Session object in the cache

uri to send the POST request to

data a dictionary of key-value pairs that will be urlencoded and sent as POST data or binary data that is sent as the raw body content or passed as such for multipart form data if files is also defined or file descriptor retrieved by Get File For Streaming Upload

json a value that will be json encoded and sent as POST data if files or data is not specified

params url parameters to append to the uri

headers a dictionary of headers to use with the request

files a dictionary of file names containing file data to POST to the server

allow\_redirects Boolean. Set to True if POST/PUT/DELETE redirect following is allowed.

timeout connection timeout

Order Product

checkout-success.robot

**Assert Order Status** 

```
*** Keywords ***
Order Product
    Create Session toy_store http://localhost:8000
    ${order}=
                To Json {"cart":[{"product_id": 2,"quantity": 1}],
    "shipping method": "Kerry", "shipping address": "405/37 ถ.มหิดล",
    "shipping_sub_district": "ท่าศาลา", "shipping_district": "เมือง",
    "shipping_province": "เชียงใหม่", "shipping_zip_code": "50000",
    "recipient_name": "ณัฐญา ชุติบุตร", "recipient_phone_number": "0970809292"}
    &{post_headers}= Create Dictionary
                                            Accept=application/ison
    Content-Type=application/json
    ${orderStatus}=
                       Post Request
                                      toy store
                                                   /api/v1/order
    json=${order}
                     headers=&{post headers}
```

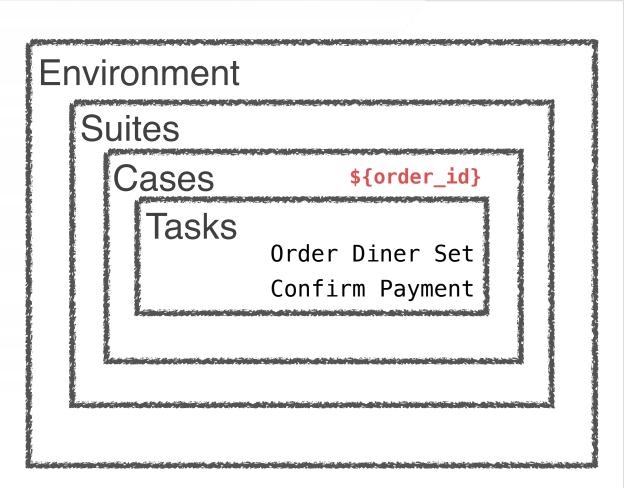
**Order Product** 

```
Assert Order Status
                   *** Keywords ***
                   Order Product
                       Create Session toy store http://localhost:8000
                                    To Json {"cart":[{"product_id": 2,"quantity": 1}],
                        ${order}=
                        "shipping_method": "Kerry", "shipping_address": "405/37 ถ.มหิดล",
                        "shipping_sub_district": "ท่าศาลา", "shipping_district": "เมือง",
                        "shipping_province": "เชียงใหม่", "shipping_zip_code": "50000",
                        "recipient_name": "ณัฐญา ชุติบุตร", "recipient_phone_number": "0970809292"}
                       &{post_headers} = Create Dictionary Accept=application/json
                       Content-Type=application/json
                        ${orderStatus}=
                                          Post Request
                                                         toy store
                                                                       /api/v1/order
                        json=${order}
                                        headers=&{post_headers}
                       Request Should Be Successful $\{\text{orderStatus}\}\
                       Should Be Equal $\{\text{orderStatus.json()["total_price"]}\} $\{14.95\}
                        Set Test Variable ${order_id} ${orderStatus.json()["order_id"]}
```

## Scope in Test Case Files

Robot Framework data is defined in different sections.

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## Run Test Case Files

\$ robot checkout-success.robot

### **Confirm Payment**

**Assert Confirm Payment Status** 

```
Request:
```

```
Confirm Payment /api/v1/confirmPayment

Confirm Payment order id = ${order_id}

Confirm Payment payment method

Confirm Payment total price = 14.95

Confirm Payment headers = Accept=application/json

Content-Type=application/json
```

### Response:

```
Assert status code = 200

Assert payment date = format d/m/yyyy HH:MM:SS

Assert tracking id = format number 10 digits
```

Confirm Payment

checkout-success.robot

**Assert Confirm Payment Status** 

```
*** Keywords ***
Confirm Payment
    Create Session toy_store http://localhost:8000
    ${confirmPayment} = To Json {"order_id": ${order_id},
    "payment_type": "credit", "type": "visa", "card_number":
    "4719700591590995", "cvv": "752", "expired_month": 7, "expired_year":
    20, "card_name": "Karnwat Wongudom", "total_price": 14.95}
```



Confirm Payment

### checkout-success.robot

**Assert Confirm Payment Status** 

```
*** Keywords ***
Confirm Payment
    Create Session toy_store http://localhost:8000
    &{post_headers} = Create Dictionary Accept=application/json
    Content-Type=application/json
    ${confirmPayment}= To Json {"order_id": ${order_id}, "payment_type":
    "credit", "type": "visa", "card number": "4719700591590995", "cvv":
    "752", "expired_month": 7, "expired_year": 20, "card_name": "Karnwat
    Wongudom","total_price": 14.95}
    ${confirmPaymentStatus}= Post Request
                                             toy store
                                                            /api/v1/
    confirmPayment json=${confirmPayment}
                                              headers=&{post_headers}
    Request Should Be Successful $\{\confirmPaymentStatus\}\
    Should Match Regexp ${confirmPaymentStatus.json()["payment_date"]}
    \d{1,2}/\d{1,2}/\d{4} \d{2}:\d{2}:\d{2}
    Should Match Regexp ${confirmPaymentStatus.json()["tracking_id"]}
                                                                          ^\
    d{10}$
```

\$ robot checkout-success.robot

Create Checkout Diner Set(Test case)

**Delete Session** 

checkout-success.robot

```
*** Test Cases ***
Checkout Diner Set

Delete All Sessions
```

\$ robot checkout-success.robot



**Hard Code!** 

#### **Hard Code!**

```
*** Variables ***
${toy_store}
${URL}
             http://localhost:8000
&{ACCEPT}
             Accept=application/json
${0K}
             200
*** Keywords ***
Get Product List
   Create Session
                      <u>${toy_store}</u>
                                      ${URL}
   ${productList}=
                      Get Request
                                      ${toy_store}
                                                      /api/v1/product
   headers=&{ACCEPT}
                                         ${productList}
    Status Should Be ${OK}
```

\$ robot checkout-success-variables.robot

**Hard Code!** 

```
*** Keywords ***
Order Product
   ${order}= To json {"cart":[{"product_id": 2,"quantity":
   1}], "shipping_method": "Kerry", "shipping_address": "405/37
   ถ.มหิดล", "shipping_sub_district":
   "ท่าศาลา", "shipping_district": "เมือง", "shipping_province":
   "เชียงใหม่", "shipping_zip_code": "50000", "recipient_name":
   "ณัฐญา ชุติบุตร","recipient_phone_number": "0970809292"}
   &{post_headers}= Create Dictionary Accept=application/
   ison Content-Type=application/json
```

#### **Hard Code!**

```
*** Variables ***
&{CONTENT_TYPE}
                    Content-Type=application/json
&{ACCEPT}
          Accept=application/json
&{POST_HEADERS} &{ACCEPT} &{CONTENT_TYPE}
${ORDER_TEMPLATE} {"cart":[{"product_id": 2,"quantity":
1}],"shipping_method": "Kerry","shipping_address": "405/37
ถ.มหิดล", "shipping sub district": "ท่าศาลา", "shipping district":
"เมือง", "shipping_province": "เชียงใหม่", "shipping_zip_code":
"50000","recipient_name": "ณัฐญา ชุติบุตร","recipient_phone_number":
"0970809292"}
*** Keywords ***
Order Product
   ${order}= To json ${ORDER_TEMPLATE}
   ${orderStatus}= Post Request ${toy_store}
                                                     /api/v1/order
   json=${order} headers=&{POST_HEADERS}
```

\$ robot checkout-success-variables.robot

**Hard Code!** 

```
*** Keywords ***
Confirm Payment
    ${confirmPayment} = To Json {"order_id": $
    {order_id}, "payment_type": "credit", "type":
    "visa", "card_number": "4719700591590995", "cvv":
    "752", "expired_month": 7, "expired_year": 20, "card_name":
    "Karnwat Wongudom", "total_price": 14.95}
```



**Hard Code!** 

```
*** Variables ***

${CONFIRM_PAYMENT_TEMPLATE} {"order_id": \${order_id},

"payment_type": "credit","type": "visa","card_number":

"4719700591590995", "cvv": "752", "expired_month": 7, "expired_year":
20, "card_name": "Karnwat Wongudom", "total_price": 14.95}

*** Keywords ***
Checkout Product

${confirmPayment}= Replace Variables ${CONFIRM_PAYMENT_TEMPLATE}
```

\$ robot checkout-success-variables.robot

# Run with Options

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\$ robot -v URL: https://206.189.42.0
checkout-success-variables.robot

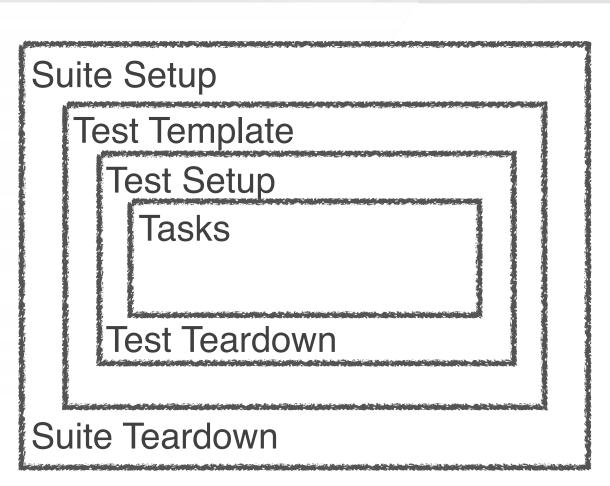
#### **Hard Code!**

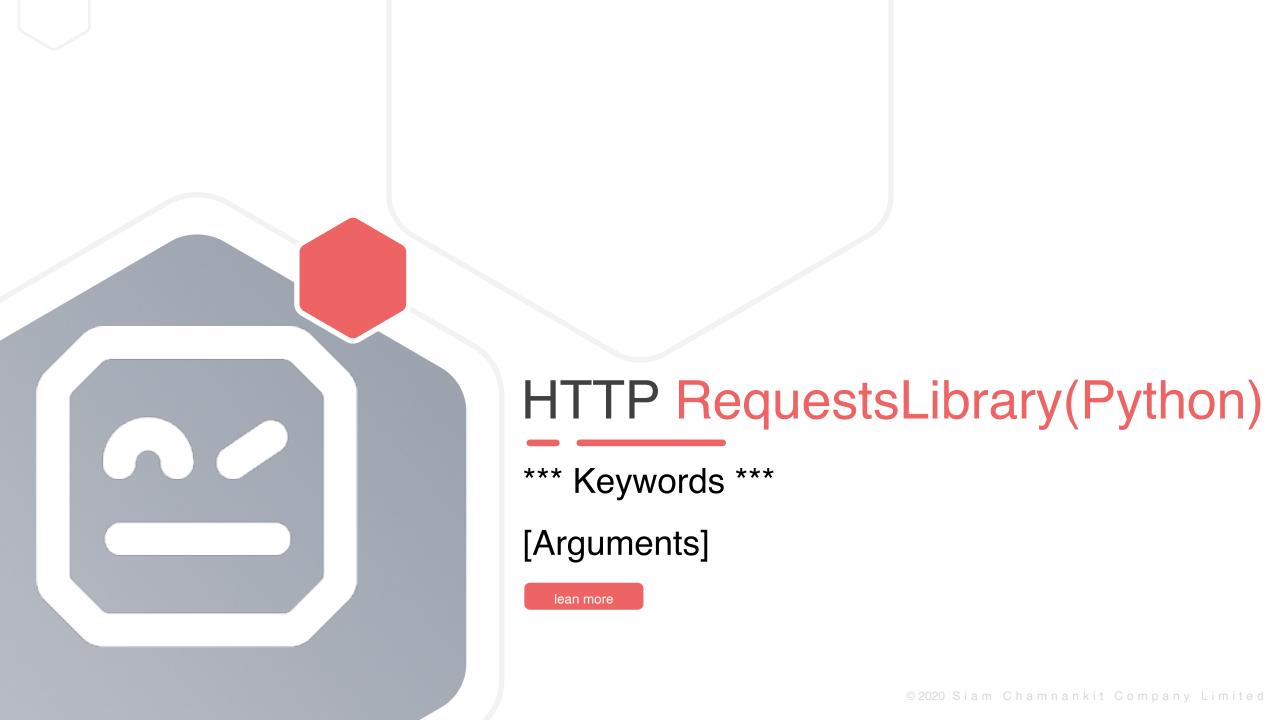
```
*** Settings ***
Library
                  RequestsLibrary
Suite Setup Create Session
                                       ${toy_store}
                                                          ${URL}
Suite Teardown Delete All Sessions
*** Test Cases ***
Checkout Diner Set
    Delete All Sessions
*** Keywords ***
Get Product List
                       <del>-${toy_store}-</del>
    Create Session
Get Product Detail
                                           ${URL}
    Create Session $\{\text{toy_store}\}
Order Product
                       <del>${toy_store}</del>
                                           <del>${URL}</del>
    Create Session
Confirm Payment
    Create Session $\{\text{toy_store}\}
```

## Execution Flow in Test Case Files

Robot Framework data is defined in different sections.

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```
*** Test Cases ***
Checkout Diner Set
    Get Product List
    Get Product Detail
    Order Product
    Confirm Payment

*** Keywords ***
...
```



create Get Product List keyword

```
*** Test Cases ***
Checkout Diner Set
   Get Product List
*** Keywords ***
Get Product List
   ${productList}= Get Request
                                    ${toy_store}
                                                    /api/v1/
   product headers=&{ACCEPT}
   Status Should Be 200
                                     ${productList}
   Should Be Equal $\{\text{productList.json()["total"]}\}
                                                           ${2}
```

create Get Product List keyword

```
*** Test Cases ***
Checkout Diner Set
   Get Product List ${2}
*** Keywords ***
Get Product List
   [Arguments] $\{\total\}
   ${productList}= Get Request ${toy_store}
                                                /api/v1/
   product headers=&{ACCEPT}
   Status Should Be 200
                                  ${productList}
   Should Be Equal $\{\productList.json()["total"]\}
                                                       ${total}
```

\$ robot checkout-success-keywords.robot

**Hard Code!** 

```
*** Test Cases ***
Checkout Diner Set
   Get Product List $\{2\}
    Get Product Detail
   . . .
*** Keywords ***
Get Product Detail
   ${productDetail}= Get Request ${toy_store} /api/v1/
   product/2 headers=&{ACCEPT}
    Request Should Be Successful ${productDetail}
   Should Be Equal $\{\text{productDetail.json()["product_name"]}\}
43 Piece dinner Set
```

**Hard Code!** 

```
*** Test Cases ***
Checkout Diner Set
   Get Product List ${2}
   Get Product Detail 2 43 Piece dinner Set
   . . .
*** Keywords ***
Get Product Detail
   [Arguments] ${product_id} ${product_name}
   ${productDetail}= Get Request ${toy_store}
                                                   /api/v1/
   product/${product_id} headers=&{ACCEPT}
   Request Should Be Successful ${productDetail}
   Should Be Equal $\{\productDetail.json()[\product_name\]\}
   ${product name}
```

\$ robot checkout-success-keywords.robot

checkout-success-keywords.robot

Order Dinner Set

Assert Order Status(Task)

#### Request:

Order Dinner Set

Order Dinner Set

Set

Order Dinner Set

Order Dinner Set

Order Dinner Set

headers = Accept=application/json

Content-Type=application/json

Response:

Assert total price = 14.95

#### **Hard Code!**

```
*** Variables ***
${ORDER_TEMPLATE} {"cart":[{"product_id": \${product_id},"quantity": \$
{quantity}}],"shipping_method": "Kerry","shipping_address": "405/37
ถ.มหิดล", "shipping_sub_district": "ท่าศาลา", "shipping_district":
"เมือง", "shipping_province": "เชียงใหม่", "shipping_zip_code":
"50000","recipient_name": "ณัฐญา ชุติบุตร","recipient_phone_number":
"0970809292"}
*** Keywords ***
Order Product
    [Arguments] $\{\text{product_id}\} $\{\text{quantity}\} $\{\text{total_price}\}
    ${message}=
                   Replace Variables ${ORDER_TEMPLATE}
    ${order}= To json ${message}
    ${orderStatus}= Post Request ${toy_store} /api/v1/order
   json=${order} headers=&{POST_HEADERS}
   Status Should Be ${OK} ${orderStatus}
   Should Be Equal As Strings $\{\text{orderStatus.json()["total_price"]}\}
    {total_price}
   Set Test Variable ${order_id}
                                       ${orderStatus.json()["order_id"]}
```

**Hard Code!** 

```
*** Test Cases ***
Checkout Diner Set
    Get Product List ${2}
    Get Product Detail 2 43 Piece dinner Set
    Order Product 2 1 14.95
    Confirm Payment

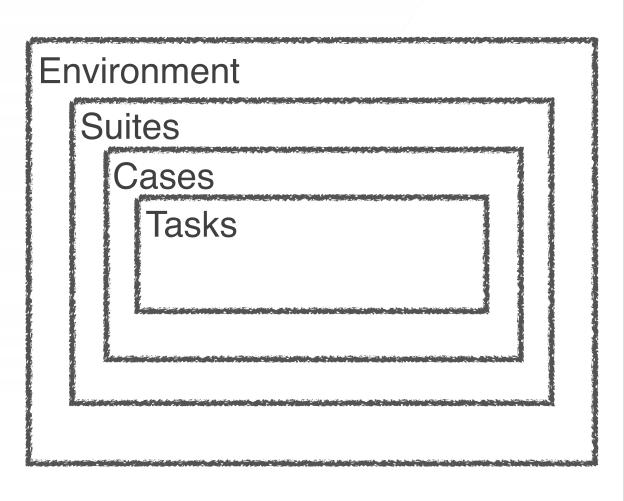
*** Keywords ***
...
```



## Scope in Test Case Files

Robot Framework data is defined in different sections.

lean more



\$ robot checkout-success-keywords.robot

**Confirm Payment** 

Assert Confirm Payment Status(Task)

#### Request:

Confirm Payment order id = \${order\_id}

Confirm Payment payment method

Confirm Payment total price = 14.95

Confirm Payment headers = Accept=application/json

Content-Type=application/json

#### Response:

Assert status code = 200

Assert payment date = format d/m/yyyy HH:MM:SS

Assert tracking id = format number 10 digits

**Hard Code!** 



#### **Hard Code!**

```
*** Variables ***
${CONFIRM_PAYMENT_TEMPLATE} {"order_id": \${order_id}, "payment_type":
"credit", "type": "visa", "card_number": "4719700591590995", "cvv":
"752", "expired_month": 7, "expired_year": 20, "card_name": "Karnwat
Wongudom","total_price": \${total_price}}
*** Keywords ***
Confirm Payment
    [Arguments] ${total_price}
   ${message}= Replace Variables ${CONFIRM_PAYMENT_TEMPLATE}
   ${confirmPayment}= To Json ${message}
   ${confirmPaymentStatus}= Post Request ${toy_store} /api/v1/
   confirmPayment json=${confirmPayment} headers=&{POST_HEADERS}
   Request Should Be Successful $\{\confirmPaymentStatus\}\
   Should Match Regexp ${confirmPaymentStatus.json()["payment_date"]}
   ^\\d{1,2}/\\d{1,2}/\\d{4} \\d{2}:\\d{2}$
   Should Match Regexp $\{\confirmPaymentStatus.json()["tracking_id"]\}
   ^\\d{10}$
```



\$ robot checkout-success-keywords.robot



\$ robot checkout-success-template.robot

#### checkout-success-template.robot

```
*** Test Cases ***
Checkout Diner Set
   Get Product List ${2}
   Get Product Detail
                      2 43 Piece dinner Set
   Order Product
                2 1 14.95
   Confirm Payment
                      14.95
Checkout Bicycle
   Get Product List
                      ${2}
   Get Product Detail
                            Balance Training Bicycle
   Order Product 1 2
                            241.90
   Confirm Payment
                      241.90
```

**Hard Code!** 

### checkout-success-template.robot

```
*** Test Cases ***
Checkout Diner Set
   Checkout Product
                       ${2}
                              2 43 Piece dinner Set 1
                                                              14.95
*** Keywords ***
Checkout Product
    [Arguments]
                  ${total}
                            ${product_id} ${product_name}
                                                             ${quantity}
   ${total_price}
   Get Product List
                       ${total}
                          ${product_name}
   Find Product by Name
   Get Product Detail
                          ${product_name}
   Order Diner Set
                       ${quantity} ${total_price}
   Confirm Payment
                       ${total_price}
```

\$ robot checkout-success-template.robot

#### **Hard Code!**

### checkout-success-template.robot

```
*** Test Cases ***
Checkout Bicycle
   Checkout Product ${2} 1 Balance Training Bicycle 2
   241.90
*** Keywords ***
...
```

\$ robot checkout-success-template.robot

#### **Hard Code!**

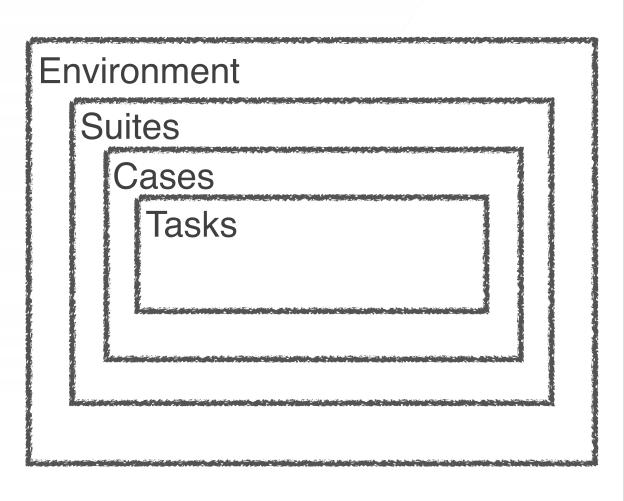
### checkout-success-template.robot

```
*** Settings ***
Library RequestsLibrary
Suite Setup Create Session ${toy_store}
                                             ${URL}
Suite Teardown Delete All Sessions
Test Template Checkout Product
*** Test Cases ***
Checkout Diner Set $\{2\} 2 43 Piece dinner Set 1
14.95
Checkout Bicycle ${2} 1 Balance Training Bicycle
241.90
```

## Scope in Test Case Files

Robot Framework data is defined in different sections.

lean more



\$ robot checkout-success-template.robot



\$ robot checkout-success-resources.robot

#### checkout-success-resources.robot

```
*** Variables ***
${toy_store}
${URL}
           http://localhost:8000
&{CONTENT_TYPE}
                       Content-Type=application/json
&{ACCEPT}
                       Accept=application/json
&{POST_HEADERS}
                       &{ACCEPT} &{CONTENT TYPE}
*** Test Cases ***
Checkout Diner Set ...
*** Keywords ***
Checkout Product
    [Arguments] $\{\text{total}\} $\{\product_id\} $\{\product_name\}\]
                                                                 $
    {quantity} ${total_price} ${notify_message}
   Get Product List ${total}
   Get Product Detail
                         ${product_id}
                                          ${product_name}
   Order Diner Set ${product_id} ${quantity} ${total_price}
   Confirm Payment $\{\text{total_price}\} $\{\text{notify_message}\}
```

#### checkout-success-resources.robot

```
move

*** Variables ***

*** Keywords ***

to resources.robot
```

```
*** Settings ***
Library RequestsLibrary
Library Collections
Suite Setup Create Session $\{\text{toy_store}\} $\{\text{URL}\}
Suite Teardown Delete All Sessions
Test Template Checkout Product
Resource ./resources.robot
*** Test Cases ***
Checkout Diner Set $\{2\} 2 43 Piece dinner Set 1 14.95
Checkout Bicycle $\{2\} 1 Balance Training Bicycle 2
                                                           241.90
*** Keywords ***
Checkout Product
   [Arguments] ${total} ${product_id} ${product_name}
   {quantity} ${total_price} ${notify_message}
   Get Product List ${total}
   Get Product Detail ${product_id} ${product_name}
   Order Diner Set ${product_id} ${quantity} ${total_price}
   Confirm Payment ${total_price} ${notify_message}
```

**Hard Code!** 

#### resources.robot

```
*** Variables ***
${toy_store}
${URL}
          http://localhost:8000
&{CONTENT_TYPE}
                      Content-Type=application/json
&{ACCEPT}
                      Accept=application/json
&{POST_HEADERS}
                      &{ACCEPT} &{CONTENT_TYPE}
*** Keywords ***
Get Product List
Get Product Detail
Order Product
Confirm Payment
```

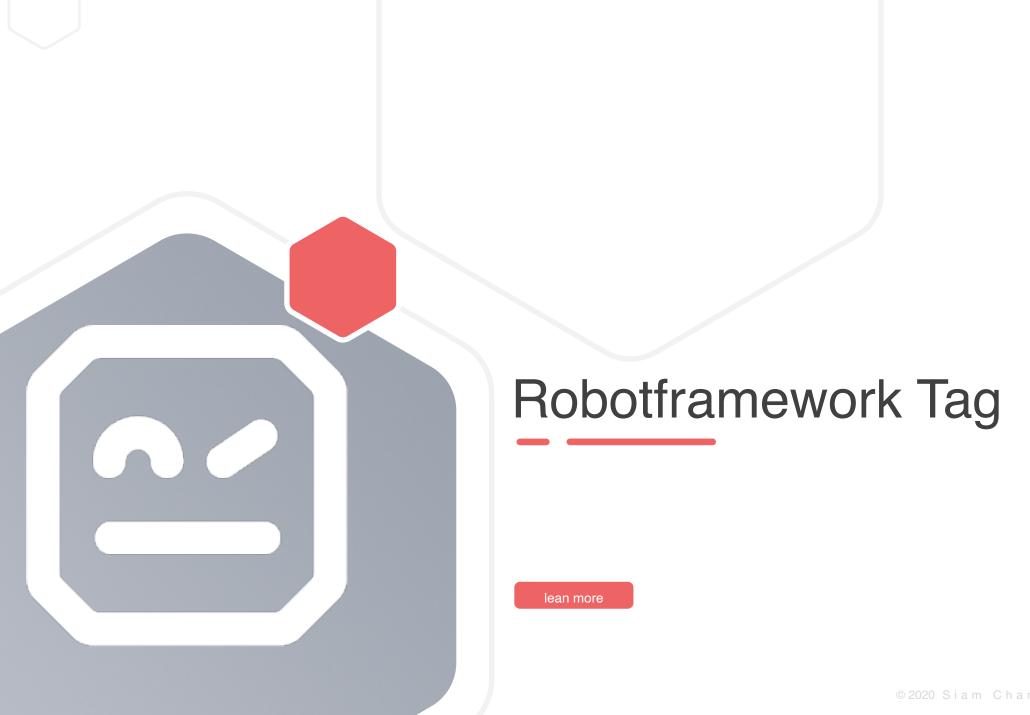
\$ robot checkout-success-resources.robot

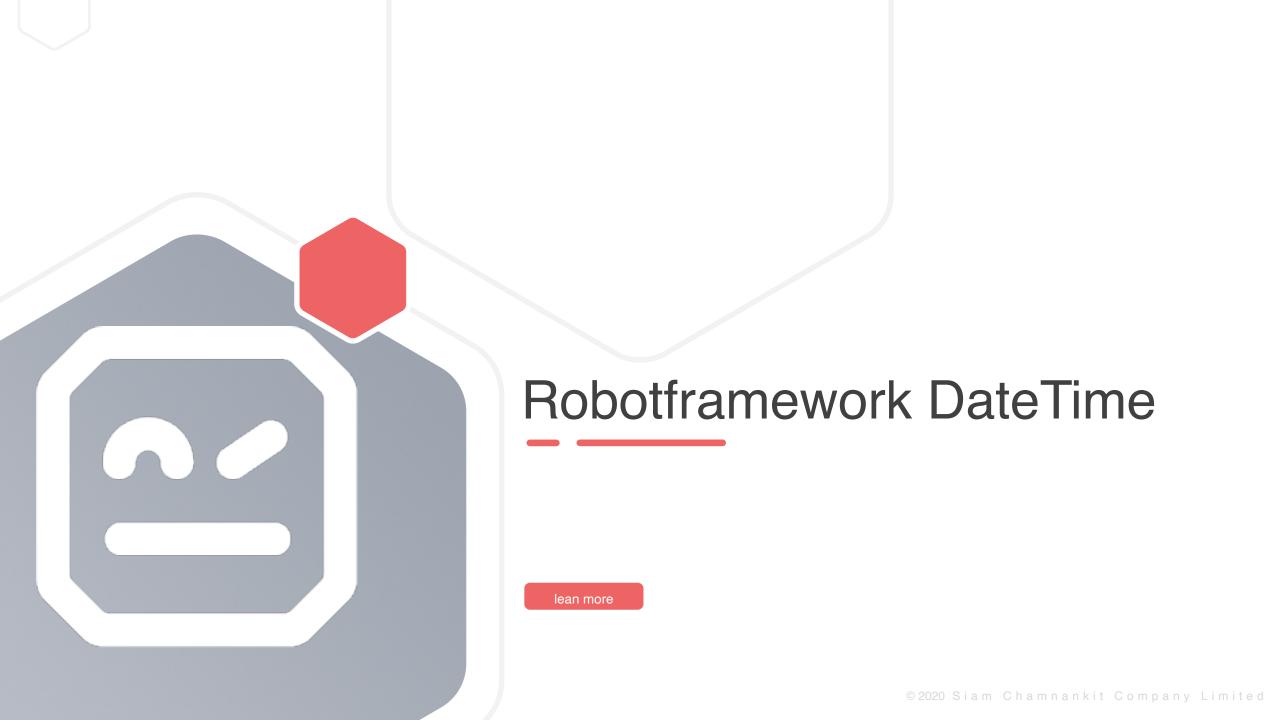


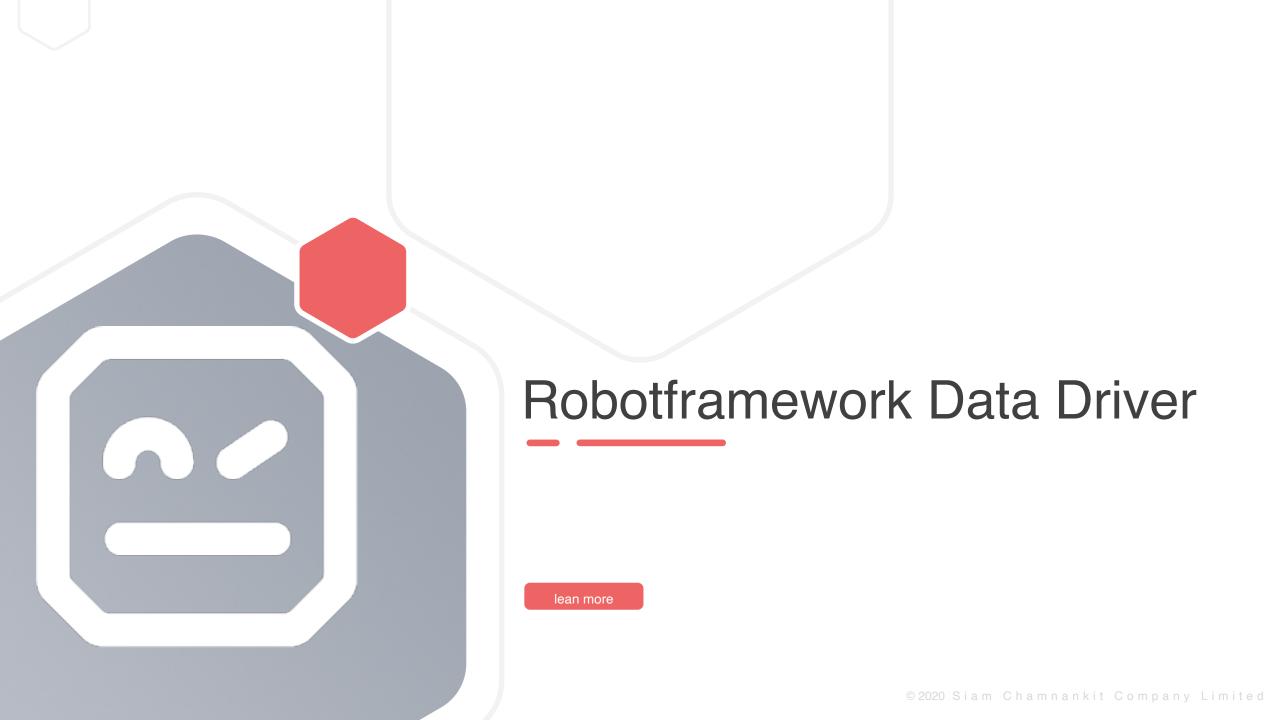


### Prerequisite(Global Install)

- 1. Python3
- 2. Robot Framework pip install robotframework
- 3. HTTP RequestsLibrary(Python)
  pip install Faker
  pip install robotframework-faker
- 4. Check the installed lib pip list









### Prerequisite(Global Install)

- 1. Python3
- 2. Robot Framework pip install robotframework
- 3. HTTP RequestsLibrary(Python) pip install robotframework-datadriver
- 4. Check the installed lib pip list



## thanks

