

# Robot Framework RequestsLibrary



# Sample Test Cases with Shopping Cart

- Test Cases: Checkout Diner Set from Store Service
- Tasks:

## 1. Get Product List

- input URL 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

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

# Sample Test Cases with Shopping Cart

- Test Cases: Checkout Diner Set from Store Service
- Tasks:

## 3.Order Diner Set

- input URL PATH: /api/v1/order
- input HTTP Method: POST
- input HTTP Headers: Accept application/json
- input HTTP Headers: Content-Type application/json
- input HTTP **Body**
- assert http status code should be 200
- assert product total price should be 14.95

## 4.Confirm Payment

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

# Sample Test Cases with Shopping Cart

PATH: /api/v1/product

Method: GET

Headers: Accept application/json

**Get Product List**

http status code is 200

products have 2 items

products contain '43 Piece dinner Set'

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

Method: GET

Headers: Accept application/json

**Get Product Detail**

http status code is 200

product name is '43 Piece dinner Set'

PATH: /api/v1/order

Method: POST

Headers: Accept application/json

Headers: Content-Type  
application/json

Body

**Order**

http status code is 200

product total price is 14.95

PATH: /api/v1/confirmPayment

Method: POST

Headers: Accept application/json

Headers: Content-Type  
application/json

Body

**Confirm Payment**

notification message is 'วันเวลาที่

ชำระเงิน 1/3/2020 13:30:00

หมายเลขคำสั่งซื้อ 8004359104 คุณ

สามารถติดตามสินค้าผ่านช่องทาง

Kerry หมายเลข 1785261900'

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# Sample Test Cases with Shopping Cart

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- How to pass the `id` from 'Get Product List' to 'Get Product Detail' `id`?
- 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



# HTTP RequestsLibrary(Python)

Library for HTTP level testing using Python Requests internally.

[lean more](#)



# Prerequisite

1. Python3

2. Robot Framework

```
pip install robotframework
```

3. HTTP RequestsLibrary(Python)

```
pip install robotframework-requests
```

# Sections in Test Case Files

Robot Framework data is defined in different sections.

[learn more](#)

```
*** Settings ***
```

```
*** Variables ***
```

```
*** Test Cases ***
```

```
*** Keywords ***
```



# Settings in Test Case Files

```
import RequestsLibrary
```

checkout-success-plain.robot

```
*** Settings ***
```

```
Library           RequestsLibrary
```

# Test Cases

## in Test Case Files

---

Get Product List

Assert Product List(Task)

Request:

Get Product List

url = api/v1/product

Get Product List

header = Accept=application/json

Response:

Assert

http status code = 200

Assert

product total = 2

# Test Cases in Test Case Files

Create Checkout Diner Set(Test case)

checkout-success.robot

Create Create Session(Task)

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
    Create Session    toy_store    http://localhost:8000
```

# RequestsLibrary

## Create Session API

[learn more](#)

<b>Create Session</b>	<i>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']</i>
-----------------------	--

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](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 attempts 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

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A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a monospaced font. The command is '\$ robot checkout-success-plain.robot'. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-plain.robot
```

# Test Cases in Test Case Files

Get Product List(Task)

Assert HTTP Status Code(Task)

checkout-success.robot

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

Checkout Diner Set

...

`${productList}`= Get Request toy\_store /api/v1/product headers=&{accept}

Status Should Be 200 `${productList}`

# RequestsLibrary

## Get Request **API**

[learn more](#)

### 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

# Test Cases in Test Case Files

checkout-success.robot

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

Checkout Diner Set

Create Session    toy\_store    http://localhost:8000

`${productList}`=    Get Request    toy\_store    /api/v1/product

Status Should Be    200    `${productList}`



# Run Test Case Files

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```
$ robot checkout-success-plain.robot
```

# Test Cases in Test Case Files

Create Headers(Task)

checkout-success.robot

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

Checkout Diner Set

Create Session toy\_store http://167.99.77.238:8000

&{accept}= Create Dictionary Accept=text/xml

\${productList}= Get Request toy\_store /api/v1/product headers=&{accept}

Status Should Be 200 \${productList}

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a monospaced font. The command is '\$ robot checkout-success-plain.robot'. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-plain.robot
```

# Test Cases in Test Case Files

Assert Product Total(Task)

checkout-success.robot

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
...
```

```
    ${productList}=    Get Request    toy_store    /api/v1/product  
headers=&{accept}
```

```
    Status Should Be    200    ${productList}
```

```
    ${text}=    Decode Bytes To String    ${productList.content}    UTF-8
```

```
    ${xml}    Parse Xml    ${text}
```

```
    ${total}=    Get Element    ${xml}    total
```

```
    Should Be Equal As Integers    ${total.text}    ${2}
```

```
    @{products}=    Get Element    ${xml}    products
```

```
    Length Should Be    ${products}    2
```



# Variables in Robotframework

Dictionary

[learn more](#)

```
response =  
    <product-list>  
        <total>2</total>           Get Element    ${xml}    total  
        <products>                 Get Element    ${xml}    product  
            <product>  
                <id>1</id>  
                <product_name>Balance Training Bicycle</product_name>  
                <product_price>119.95</product_price>  
                <product_image>/Balance_Training_Bicycle.png</product_image>  
            </product>  
            <product>  
                <id>2</id>  
                <product_name>43 Piece dinner Set</product_name>  
                <product_price>12.95</product_price>  
                <product_image>/43_Piece_dinner_Set.png</product_image>  
            </product>  
        </products>  
    </product-list>
```

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a monospaced font. The command is '\$ robot checkout-success-plain.robot'. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-plain.robot
```

# Test Cases in Test Case Files

Get Product Detail

Assert Product Detail(Task)

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



# Test Cases in Test Case Files

Get Product Detail

Assert Product Detail(Task)

checkout-success.robot

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

Checkout Diner Set

...

`${productDetail}=`    Get Request    `toy_store`    `/api/v1/product/2`

`headers=&{accept}`

Request Should Be Successful    `${productDetail}`

`${xml}`    Parse Xml    `${productDetail.content}`

`${name}=`    Get Element Text    `${xml}`    `product_name`

Should Be Equal    `${name}`    `43 Piece dinner Set`



# Test Cases in Test Case Files

Order Dinner Set

Assert Order Status(Task)

Request:

Order Dinner Set

Order Dinner Set

Order Dinner Set

list of [product id = 2, quantity = 1]

shipping address

headers = Accept=text/xml

Content-Type=text/xml

Response:

Assert

total price = 14.95

# RequestsLibrary

## Get Request **API**

[learn 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

# Test Cases in Test Case Files

Order Dinner Set

Assert Order Status

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

Checkout Diner Set

checkout-success-plain.robot

...

```
${order}=    Encode String To Bytes    <orders><cart><order><product_id>2</product_id><quantity>1</quantity></order></cart><shipping_method>Kerry</shipping_method><shipping_address>405/37 ถ.มหิดล</shipping_address><shipping_sub_district>ท่าศาลา</shipping_sub_district><shipping_district>เมือง</shipping_district><shipping_province>เชียงใหม่</shipping_province><shipping_zip_code>50000</shipping_zip_code><recipient_name>ณัฐญา ชุตินทร</recipient_name><recipient_phone_number>0970809292</recipient_phone_number></orders>    UTF-8
```

```
&{post_headers}=    Create Dictionary    Accept=text/xml  
Content-Type=text/xml
```

```
${orderStatus}=    Post Request    toy_store    /api/v1/order  
data=${order}    headers=&{post_headers}
```

# Test Cases in Test Case Files

Order Dinner Set

Assert Order Status(Task)

checkout-succes.robot

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

```
...  
${orderStatus}=      Post Request      toy_store      /api/v1/order  
data=${order}        headers=&{post_headers}  
  
Status Should Be     200      ${orderStatus}  
${xml}      Parse Xml      ${orderStatus.content}  
${total_price}=      Get Element Text      ${xml}      total_price  
Should Be Equal      ${total_price}      14.95  
${order_id}=      Get Element Text      ${xml}      order_id
```

# Order Status Response

---

```
<order>  
  <order_id>8004359122</order_id>  
  <total_price>14.95</total_price>  
</order>
```

# Run Test Case Files

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a monospaced font. The command is '\$ robot checkout-success-plain.robot'. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-plain.robot
```

# Test Cases

## in Test Case Files

Confirm Payment

Assert Confirm Payment Status(Task)

Request:

Confirm Payment

/api/v1/confirmPayment

Confirm Payment

order id = 8004359122

Confirm Payment

payment method

Confirm Payment

total price = 14.95

Confirm Payment

headers = Accept=application/json

Content-Type=application/json

Response:

Assert

notification message =

วันที่ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งซื้อ  
8004359122 คุณสามารถติดตามสินค้าผ่านทาง Kerry

หมายเลข 1785261900

# Test Cases in Test Case Files

Confirm Payment

checkout-success.robot

Assert Confirm Payment Status(Task)

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

Checkout Diner Set

...

```
${confirmPayment}=    Encode String To Bytes    <confirm-  
payment><order_id>${order_id}</order_id><payment_type>credit</  
payment_type><type>visa</type><card_number>4719700591590995</  
card_number><cvv>752</cvv><expired_month>7</  
expired_month><expired_year>20</expired_year><card_name>Karnwat  
Wongudom</card_name><total_price>${total_price}</total_price></confirm-  
payment>    UTF-8
```





# Test Cases in Test Case Files

checkout-success.robot

Confirm Payment

Assert Confirm

Payment Status(Task)

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

Checkout Diner Set

...

```
${confirmPaymentStatus}=      Post Request      toy_store      /api/v1/  
confirmPayment      data=${confirmPayment}      headers=&{post_headers}  
Request Should Be Successful      ${confirmPaymentStatus}
```

```
${text}=      Decode Bytes To String      ${confirmPaymentStatus.content}      UTF-8
```

```
${xml}      Parse Xml      ${text}
```

```
${message}=      Get Element Text      ${xml}
```

```
Should Be Equal As Strings      ${message}      วันเวลาที่ชำระเงิน 1/3/2020 13:30:00  
หมายเลขคำสั่งซื้อ 8004359122 คุณสามารถติดตามสินค้าผ่านช่องทาง Kerry หมายเลข 1785261900
```

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a monospaced font. The command is '\$ robot checkout-success-plain.robot'. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-plain.robot
```

# Test Cases in Test Case Files

Create Checkout Diner Set(Test case)

Delete Session(Task)

checkout-success.robot

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
...
```

```
Delete All Sessions
```

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a monospaced font. The command is '\$ robot checkout-success-plain.robot'. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-plain.robot
```



# HTTP RequestsLibrary(Python)

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

[lean more](#)

# Test Cases in Test Case Files

Hard Code!

checkout-success-variables.robot

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

Checkout Diner Set

Create Session toy\_store http://localhost:8000

&{accept}= Create Dictionary Accept=text/xnk

\${productList}= Get Request toy\_store /api/v1/product

headers=&{accept}

Status Should Be 200 \${productList}

# Test Cases in Test Case Files

Hard Code!

checkout-success-variables.robot

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

`${toy_store}`

`${URL}`            `http://localhost:8000`

`&{ACCEPT}`        `Accept=text/xml`

`${OK}`            `200`

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

Checkout Diner Set

Create Session    `${toy_store}`    `${URL}`

`${productList}`=    Get Request    `${toy_store}`    `/api/v1/`

product        headers=`&{ACCEPT}`

Status Should Be    `${OK}`                    `${productList}`

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a black monospaced font. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-variables.robot
```



# Test Cases in Test Case Files

Hard Code!

checkout-success-variables.robot

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

Checkout Diner Set

...

```
Encode String To Bytes    <orders><cart><order><product_id>${id}</  
product_id><quantity>2</quantity></order></cart><shipping_method>Kerry</  
shipping_method><shipping_address>405/37 ถ.มหิดล</  
shipping_address><shipping_sub_district>ท่าศาลา</  
shipping_sub_district><shipping_district>เมือง</  
shipping_district><shipping_province>เชียงใหม่</  
shipping_province><shipping_zip_code>50000</  
shipping_zip_code><recipient_name>ณัฐญา ชุติบุตร</  
recipient_name><recipient_phone_number>0970809292</  
recipient_phone_number></orders>    UTF-8
```

```
&{post_headers}=    Create Dictionary    Accept=text/xml  
Content-Type=text/xml
```

# Test Cases in Test Case Files

checkout-success-variables.robot

## Hard Code!

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

\${toy\_store}

\${URL} http://167.99.77.238:8000

&{CONTENT\_TYPE} Content-Type=text/xml

&{ACCEPT} Accept=text/xml

&{POST\_HEADERS} &{ACCEPT} &{CONTENT\_TYPE}

\${ORDER\_TEMPLATE} <orders><cart><order><product\_id>2</

product\_id><quantity>1</quantity></order></cart><shipping\_method>Kerry</

shipping\_method><shipping\_address>405/37 ถ.มหิดล</

shipping\_address><shipping\_sub\_district>ท่าศาลา</

shipping\_sub\_district><shipping\_district>เมือง</

shipping\_district><shipping\_province>เชียงใหม่</

shipping\_province><shipping\_zip\_code>50000</

shipping\_zip\_code><recipient\_name>ณัฐญา ชุตินบุตร</

recipient\_name><recipient\_phone\_number>0970809292</

recipient\_phone\_number></orders>

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

Checkout Diner Set

...

&{post\_headers}= Create Dictionary Accept=text/xml

Content-Type=text/xml

\${orderStatus}= Post Request \${toy\_store} /api/v1/order

json=\${order} headers=&{POST\_HEADERS}

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a black monospaced font. The command is '\$ robot checkout-success-variables.robot'. The device has a thin grey border and a small grey dot at the top center, representing a camera or sensor.

```
$ robot checkout-success-variables.robot
```

# Test Cases in Test Case Files

Hard Code!

checkout-success-variables.robot

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
...
```

```
${confirmPayment}=    Encode String To Bytes    <confirm-  
payment><order_id>${order_id}</  
order_id><payment_type>credit</payment_type><type>visa</  
type><card_number>4719700591590995</card_number><cvv>752</  
cvv><expired_month>7</expired_month><expired_year>20</  
expired_year><card_name>Karnwat Wongudom</  
card_name><total_price>${total_price}</total_price></confirm-  
payment>
```



# Test Cases in Test Case Files

Hard Code!

checkout-success-variables.robot

```
*** Variables ***
```

```
${CONFIRM_PAYMENT_TEMPLATE}    <confirm-payment><order_id>$  
{order_id}</order_id><payment_type>credit</payment_type><type>visa</  
type><card_number>4719700591590995</card_number><cvv>752</  
cvv><expired_month>7</expired_month><expired_year>20</  
expired_year><card_name>Karnwat Wongudom</card_name><total_price>$  
{total_price}</total_price></confirm-payment>
```

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
...
```

```
    ${confirmPayment}=    To Json    ${CONFIRM_PAYMENT_TEMPLATE}
```

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a black monospaced font. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-variables.robot
```

# Run with Options

---

[learn more](#)

```
$ robot -v URL:https://xxx.xxx.xx.x  
checkout-success-variables.robot
```

# Test Cases in Test Case Files

Hard Code!

checkout-success-variables.robot

```
*** Settings ***
```

```
Library           RequestsLibrary
```

```
Test Setup        Create Session    ${toy_store}    ${URL}
```

```
Test Teardown     Delete All Sessions
```

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
    Create Session    ${toy_store}    ${URL}
```

```
    ...
```

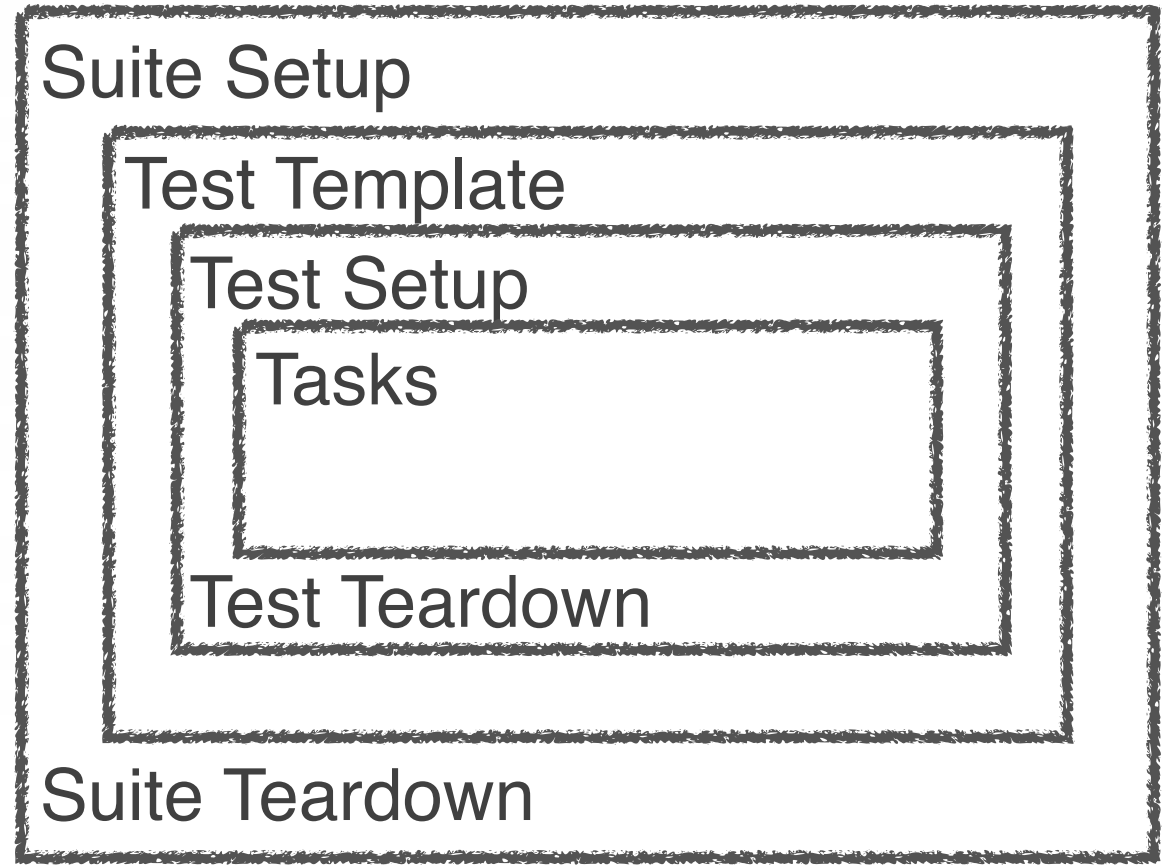
```
    Delete All Sessions
```



# Execution Flow in **Test Case Files**

Robot Framework data is defined in different sections.

[learn more](#)





# HTTP RequestsLibrary(Python)

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

[lean more](#)

# Test Cases in Test Case Files

checkout-success-keywords.robot

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

Checkout Diner Set

`${productList}=`    Get Request    `${toy_store}`    /api/v1/product

`headers=&{ACCEPT}`

`Status Should Be`    200    `${productList}`

`${text}=`    Decode Bytes To String    `${productList.content}`

UTF-8

`${xml}`    Parse Xml    `${text}`

`${total}=`    Get Element    `${xml}`    total

`Should Be Equal As Integers`    `${total.text}`    `${2}`

...

# Test Cases in Test Case Files

checkout-success-keywords.robot

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}
```

```
    ${text}=    Decode Bytes To String    ${productList.content}
```

```
    UTF-8
```

```
    ${xml}    Parse Xml    ${text}
```

```
    ${total}=    Get Element    ${xml}    total
```

```
    Should Be Equal As Integers    ${total.text}    ${2}
```

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a black monospaced font. The command is '\$ robot checkout-success-keywords.robot'. The device has a thin grey border and a small grey dot at the top center, representing a camera or sensor.

```
$ robot checkout-success-keywords.robot
```

# Test Cases in Test Case Files

checkout-success-keywords.robot

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
...
```

```
${productDetail}=    Get Request    ${toy_store}    /api/v1/  
product/2    headers=&{ACCEPT}
```

```
Request Should Be Successful    ${productDetail}
```

```
${xml}    Parse Xml    ${productDetail.content}
```

```
${name}=    Get Element Text    ${xml}    product_name
```

```
Should Be Equal    ${name}    43 Piece dinner Set
```

```
...
```



# Test Cases in Test Case Files

checkout-success-keywords.robot

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
    Get Product List
```

```
    Get Product Detail
```

```
    ...
```

```
*** Keywords ***
```

```
...
```

```
Get Product Detail
```

```
    ${productDetail}=    Get Request    ${toy_store}    /api/v1/  
product/2    headers=&{ACCEPT}
```

```
    Request Should Be Successful    ${productDetail}
```

```
    ${xml}    Parse Xml    ${productDetail.content}
```

```
    ${name}=    Get Element Text    ${xml}    product_name
```

```
    Should Be Equal    ${name}    43 Piece dinner Set
```

# Run Test Case Files

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```
$ robot checkout-success-keywords.robot
```



# Test Cases in Test Case Files

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
    Get Product List
```

```
    Get Product Detail
```

```
    Order Diner Set
```

```
    Confirm Payment
```

```
*** Keywords ***
```

```
...
```



# Run Test Case Files

---

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```
$ robot checkout-success-keywords.robot
```

# Test Cases in Test Case Files

Get Product Detail

Assert Product Detail(Task)

Request:

Get Product Detail      product id = 2

Response:

Assert      product id = 2

Assert      product name = 43 Piece dinner Set



# Test Cases in Test Case Files

Hard Code!

checkout-success-keywords.robot

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
    Get Product List
```

```
    Get Product Detail
```

```
    ...
```

```
*** Keywords ***
```

```
...
```

```
Get Product Detail
```

```
    ${productDetail}=    Get Request    ${toy_store}    /api/v1/
```

```
    product/2    headers=&{ACCEPT}
```

```
    Request Should Be Successful    ${productDetail}
```

```
    ${xml}    Parse Xml    ${productDetail.content}
```

```
    ${name}=    Get Element Text    ${xml}    product_name
```

```
    Should Be Equal    ${name}    43 Piece dinner Set
```

# Test Cases in Test Case Files

checkout-success-keywords.robot

Hard Code!

```
*** Test Cases ***
```

```
Checkout Diner Set
```

```
    Get Product List
```

```
    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}
```

```
    ${xml}      Parse Xml      ${productDetail.content}
```

```
    ${name}=      Get Element Text      ${xml}      product_name
```

```
    Should Be Equal      ${name}      ${product_name}
```

# Run Test Case Files

---

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```
$ robot checkout-success-keywords.robot
```

# Test Cases in Test Case Files

checkout-success-keywords.robot

Order Dinner Set

Assert Order Status(Task)

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

# Test Cases in Test Case Files

checkout-success-keywords.robot

Hard Code!

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

Checkout Diner Set

Get Product List

Get Product Detail      2      43 Piece dinner Set

Order Diner Set      2      1      14.95

Confirm Payment      14.95      วันที่ชำระเงิน 1/3/2020

13:30:00 หมายเลขคำสั่งซื้อ 8004359122 คุณสามารถติดตามสินค้าผ่านทาง

Kerry หมายเลข 1785261900

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

...





# Test Cases in Test Case Files

checkout-success-keywords.robot

## Hard Code!

```
*** Variables ***
${ORDER_TEMPLATE}

...      <orders>
...      <cart>
...      <order>
...          <product_id>\${product_id}</product_id>
...          <quantity>\${quantity}</quantity>
...      </order>
...      </cart>
...      <shipping_method>Kerry</shipping_method>
...      <shipping_address>405/37 ถ.มหิดล</shipping_address>
...      <shipping_sub_district>ท่าศาลา</
shipping_sub_district>
...      <shipping_district>เมือง</shipping_district>
...      <shipping_province>เชียงใหม่</shipping_province>
...      <shipping_zip_code>50000</shipping_zip_code>
...      <recipient_name>ณัฐญา ชุตินุตร</recipient_name>
...      <recipient_phone_number>0970809292</
recipient_phone_number>
...      </orders>
```

# Test Cases in Test Case Files

checkout-success-keywords.robot

## Hard Code!

```
*** Keywords ***
```

```
Order Diner Set
```

```
[Arguments]      ${product_id}    ${quantity}    ${expected_total_price}
```

```
${order_message}=    Replace Variables    ${ORDER_TEMPLATE}
```

```
${order}=    Encode String To Bytes    ${order_message}    UTF-8
```

```
${orderStatus}=    Post Request    ${toy_store}    /api/v1/order
```

```
data=${order}    headers=&{POST_HEADERS}
```

```
Status Should Be    200    ${orderStatus}
```

```
${xml}    Parse Xml    ${orderStatus.content}
```

```
${actual_total_price}=    Get Element Text    ${xml}    total_price
```

```
Should Be Equal    ${expected_total_price}    ${actual_total_price}
```

```
${order_id}=    Get Element Text    ${xml}    order_id
```

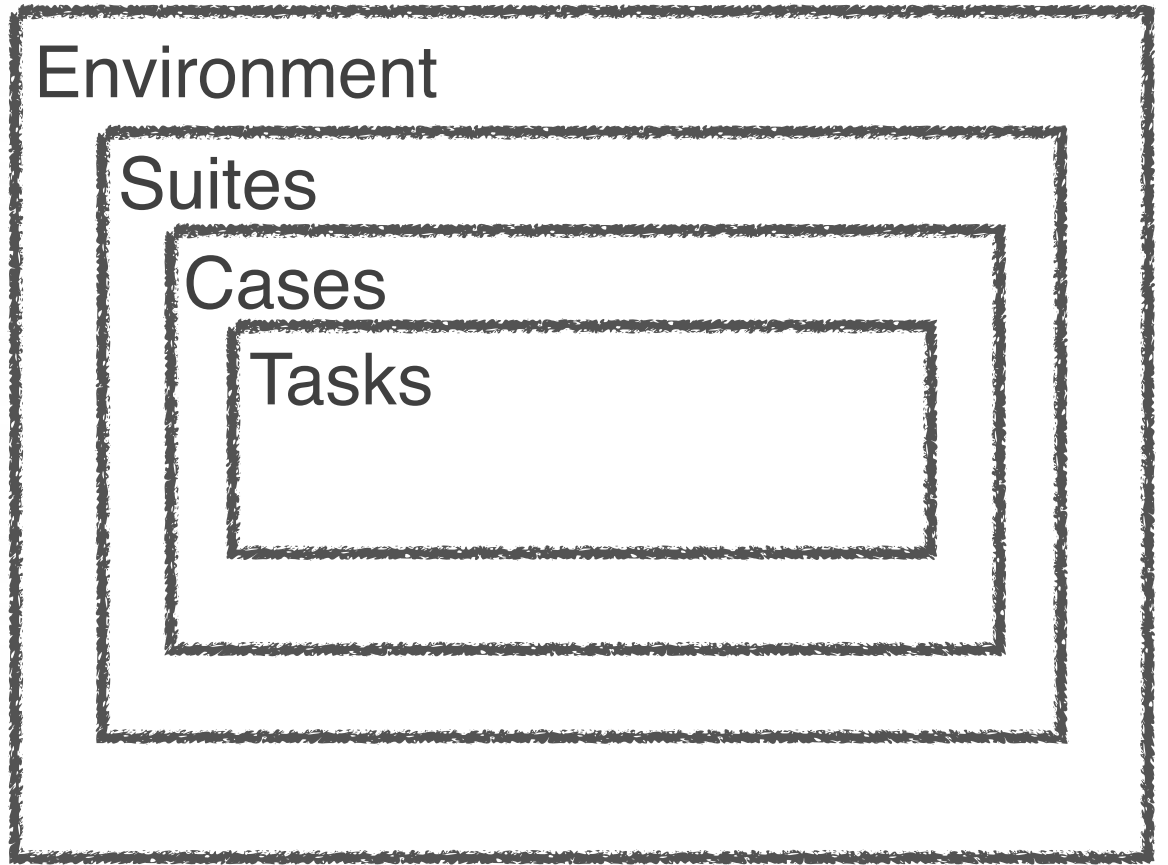
```
Set Test Variable    ${order_id}    ${order_id}
```

```
Set Test Variable    ${total_price}    ${actual_total_price}
```

# Scope in Test Case Files

Robot Framework data is defined in different sections.

[learn more](#)



# Run Test Case Files

---

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```
$ robot checkout-success-keywords.robot
```

# Test Cases in Test Case Files

Confirm Payment

Assert Confirm Payment Status(Task)

Request:

Confirm Payment

Confirm Payment

Confirm Payment

Confirm Payment

**order id = 8004359122**

payment method

total price = 14.95

headers = Accept=text/xml

Content-Type=text/xml

Response:

Assert

notification message =

วันที่ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งซื้อ

8004359122 คุณสามารถติดตามสินค้าผ่านทาง Kerry

หมายเลข 1785261900

# Test Cases in Test Case Files

checkout-success-keywords.robot

Hard Code!

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

Checkout Diner Set

Get Product List

Get Product Detail      2      43 Piece dinner Set

Order Diner Set      2      1      14.95

Confirm Payment      14.95      วันที่ชำระเงิน 1/3/2020

13:30:00 หมายเลขคำสั่งซื้อ 8004359122 คุณสามารถติดตามสินค้าผ่านทาง

Kerry หมายเลข 1785261900

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

...



# Test Cases in Test Case Files

checkout-success-keywords.robot

## Hard Code!

```
*** Variables ***
${CONFIRM_PAYMENT_TEMPLATE}

...      <confirm-payment>
...      <order_id>\${order_id}</order_id>
...      <payment_type>credit</payment_type>
...      <type>visa</type>
...      <card_number>4719700591590995</card_number>
...      <cvv>752</cvv>
...      <expired_month>7</expired_month>
...      <expired_year>20</expired_year>
...      <card_name>Karnwat Wongudom</card_name>
...      <total_price>\${total_price}</total_price>
...      </confirm-payment>
```

# Test Cases in Test Case Files

checkout-success-keywords.robot

Hard Code!

```
*** Keywords ***
```

```
Confirm Payment
```

```
    [Arguments]    ${total_price}    ${notify_message}
```

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

```
    ${confirmPayment}=    Encode String To Bytes    ${payment_message}
```

```
    UTF-8
```

```
    ${confirmPaymentStatus}=    Post Request    ${toy_store}    /api/v1/
```

```
    confirmPayment    data=${confirmPayment}    headers=&{POST_HEADERS}
```

```
    Request Should Be Successful    ${confirmPaymentStatus}
```

```
    ${xml}    Parse Xml    ${confirmPaymentStatus.content}
```

```
    ${message}=    Get Element Text    ${xml}
```

```
    Should Be Equal As Strings    ${message}    ${notify_message}
```



# Scope in Test Case Files

Robot Framework data is defined in different sections.

[learn more](#)

Environment

Suites

Cases

`${order_id}`

Tasks

Order Diner Set  
Confirm Payment

# Run Test Case Files

---

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```
$ robot checkout-success-keywords.robot
```



# HTTP RequestsLibrary(Python)

\*\*\* Template \*\*\*

[lean more](#)

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a black monospaced font. The command is '\$ robot checkout-success-template.robot'. The device has a thin grey border and a small grey dot at the top center, representing a camera or sensor.

```
$ robot checkout-success-template.robot
```

# Test Cases in Test Case Files

checkout-success-template.robot

Hard Code!

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

Checkout Diner Set

Get Product List

Get Product Detail      2      43 Piece dinner Set

Order Diner Set      2      1      14.95

Confirm Payment      14.95      วันที่ชำระเงิน 1/3/2020 13:30:00 หมายเลข

คำสั่งซื้อ 8004359122 คุณสามารถติดตามสินค้าผ่านทาง Kerry หมายเลข 1785261900

Checkout Bicycle

Get Product List

Get Product Detail      1      Balance Training Bicycle

Order Diner Set      1      2      241.90

Confirm Payment      241.90      วันที่ชำระเงิน 1/3/2020 13:30:00

หมายเลขคำสั่งซื้อ 8004359105 คุณสามารถติดตามสินค้าผ่านทาง Kerry หมายเลข  
1785261901

# Test Cases in Test Case Files

checkout-success-template.robot

Hard Code!

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

Checkout Diner Set

Checkout Product      2      43 Piece dinner Set      1      14.95      วันที่  
ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งซื้อ 8004359122 คุณสามารถติดตามสินค้าผ่าน  
ช่องทาง Kerry หมายเลข 1785261900

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

Checkout Product

[Arguments]      \${product\_id}      \${product\_name}      \${quantity}      \$  
{total\_price}      \${notify\_message}

Get Product List

Find Product by Name      \${product\_name}

Get Product Detail      \${product\_name}

Order Diner Set      \${quantity}      \${total\_price}

Confirm Payment      \${total\_price}      \${notify\_message}

# Run Test Case Files

---

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```
$ robot checkout-success-template.robot
```

# Test Cases in Test Case Files

checkout-success-template.robot

Hard Code!

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

Checkout Bicycle

Checkout Product     1     Balance Training Bicycle     2     241.90 วัน  
เวลาที่ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งซื้อ 8004359105 คุณสามารถติดตาม  
สินค้าผ่านช่องทาง Kerry หมายเลข 1785261901

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

...



# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a black monospaced font. The command is '\$ robot checkout-success-template.robot'. The device has a thin grey border and a small grey dot at the top center, representing a camera or sensor.

```
$ robot checkout-success-template.robot
```

# Test Cases in Test Case Files

checkout-success-template.robot

Hard Code!

\*\*\* 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 43 Piece dinner Set 1 14.95

วันที่ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งซื้อ 8004359122 คุณ  
สามารถติดตามสินค้าผ่านช่องทาง Kerry หมายเลข 1785261900

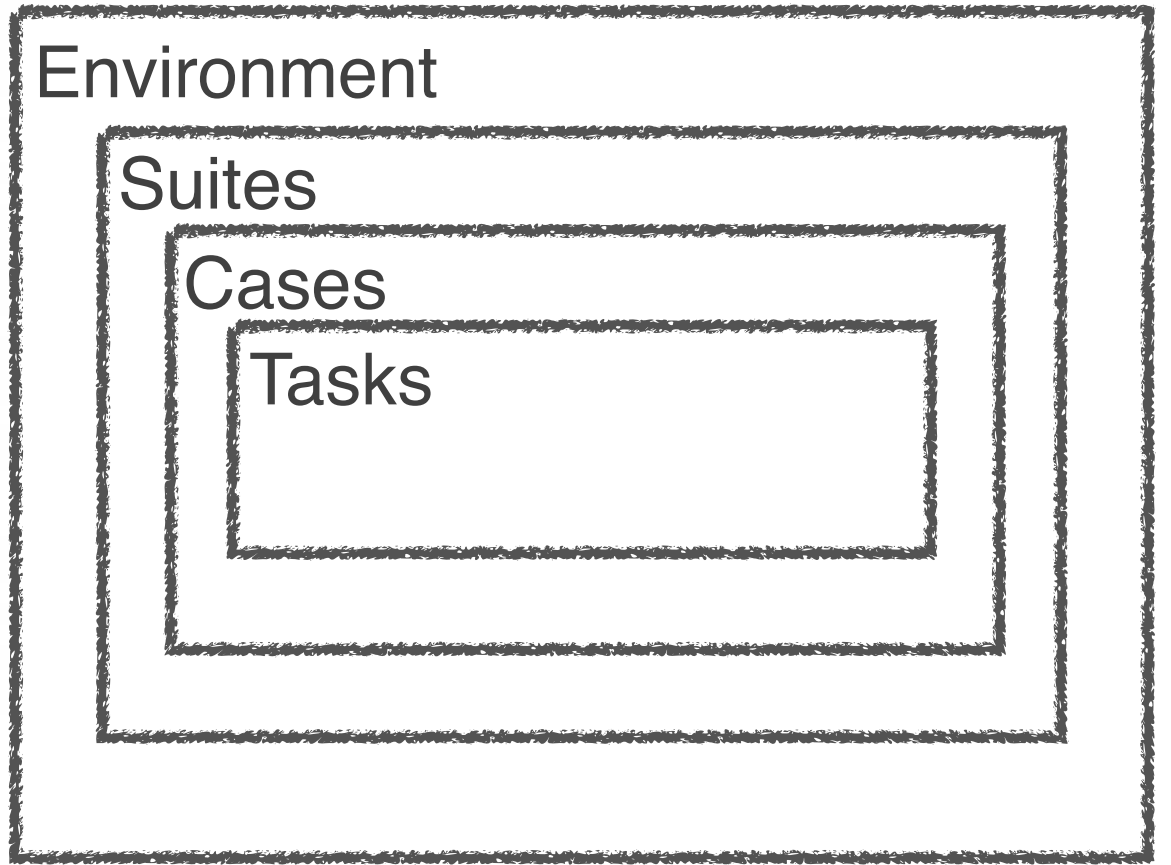
Checkout Bicycle 1 Balance Training Bicycle 2 241.90

วันที่ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งซื้อ 8004359105 คุณ  
สามารถติดตามสินค้าผ่านช่องทาง Kerry หมายเลข 1785261901

# Scope in Test Case Files

Robot Framework data is defined in different sections.

[learn more](#)



# Run Test Case Files

---

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```
$ robot checkout-success-template.robot
```



# HTTP RequestsLibrary(Python)

\*\*\* Resource \*\*\*

[lean more](#)

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a monospaced font. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-resources.robot
```

# Test Cases in Test Case Files

checkout-success-resources.robot

## Hard Code!

\*\*\* 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]` `${product_id}` `${product_name}` `${quantity}` `$`  
`{total_price}` `${notify_message}`

`Get Product List`

`Get Product Detail` `${product_id}` `${product_name}`

`Order Diner Set` `${product_id}` `${quantity}` `${total_price}`

`Confirm Payment` `${total_price}` `${notify_message}`

...

# Test Cases in Test Case Files

checkout-success-resources.robot

move

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

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

to resources.robot

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

Library RequestsLibrary

Library Collections

Suite Setup Create Session \${toy\_store} \${URL}

Suite Teardown Delete All Sessions

Test Template Checkout Product

Resource ./resources.robot

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

Checkout Diner Set 2 43 Piece dinner Set 1 14.95

วันที่ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งซื้อ 8004359122 คุณ  
สามารถติดตามสินค้าผ่านทาง Kerry หมายเลข 1785261900

Checkout Bicycle 1 Balance Training Bicycle 2 241.90

วันที่ชำระเงิน 1/3/2020 13:30:00 หมายเลขคำสั่งซื้อ 8004359105 คุณ  
สามารถติดตามสินค้าผ่านทาง Kerry หมายเลข 1785261901



# Test Cases in Test Case Files

resources.robot

## Hard Code!

```
*** Variables ***
```

```
${toy_store}
```

```
${URL}          http://localhost:8000
```

```
&{CONTENT_TYPE}    Content-Type=application/json
```

```
&{ACCEPT}          Accept=application/json
```

```
&{POST_HEADERS}    &{ACCEPT}    &{CONTENT_TYPE}
```

```
...
```

```
*** Keywords ***
```

```
Checkout Product
```

```
    [Arguments]    ${product_id}    ${product_name}    ${quantity}    $  
{total_price}    ${notify_message}
```

```
    Get Product List
```

```
    Get Product Detail    ${product_id}    ${product_name}
```

```
    Order Diner Set    ${product_id}    ${quantity}    ${total_price}
```

```
    Confirm Payment    ${total_price}    ${notify_message}
```

```
...
```

# Run Test Case Files

---

A stylized illustration of a tablet or smartphone screen. The screen is white and displays a terminal command in a black monospaced font. The device has a thin grey border and a small circular camera lens at the top center.

```
$ robot checkout-success-resources.robot
```



# thanks