

สยามชั้นนำคิท
SIAM CHANNON KIT



Shu Ha Ri



We Love Bug

API TEST WITH POSTMAN





Shu Ha Ri



We Love Bug

Agenda

Morning

- What is testing level
- Why we should test API
- What is API Documents
- Working with API request
- Working with Collection

Afternoon

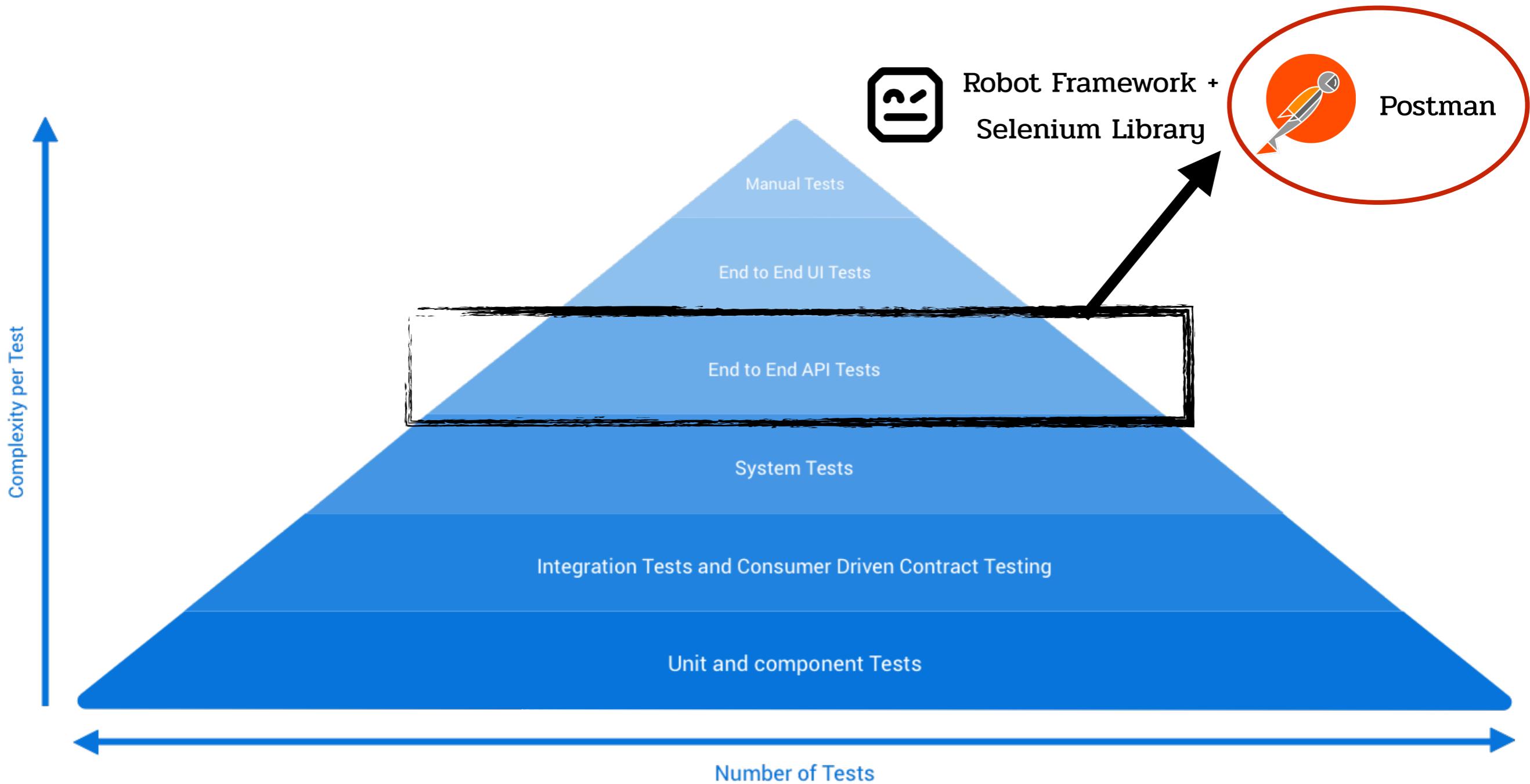
- Working with Test
- Data file (CSV, JSON)
- Environment
- Newman
- Script Test

Morning



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What is testing level



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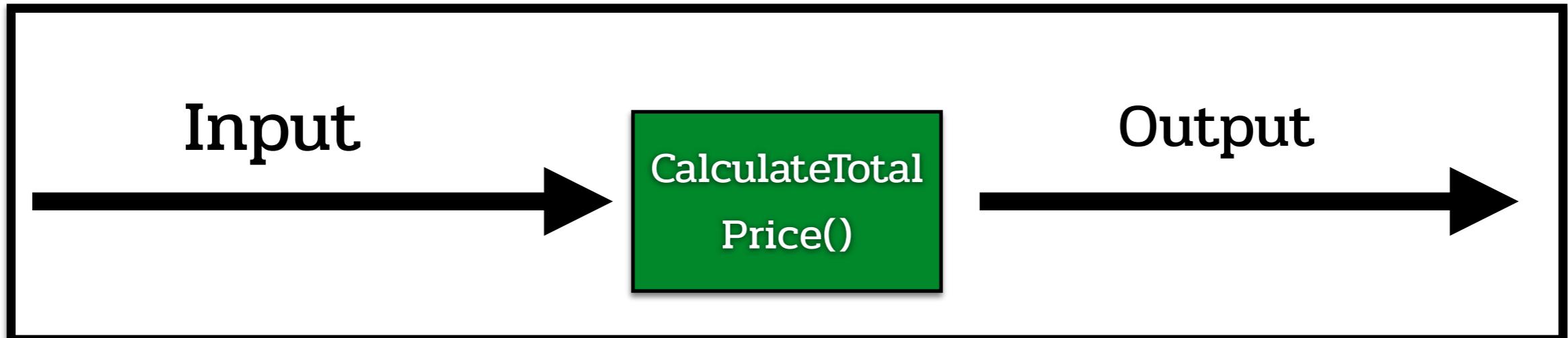
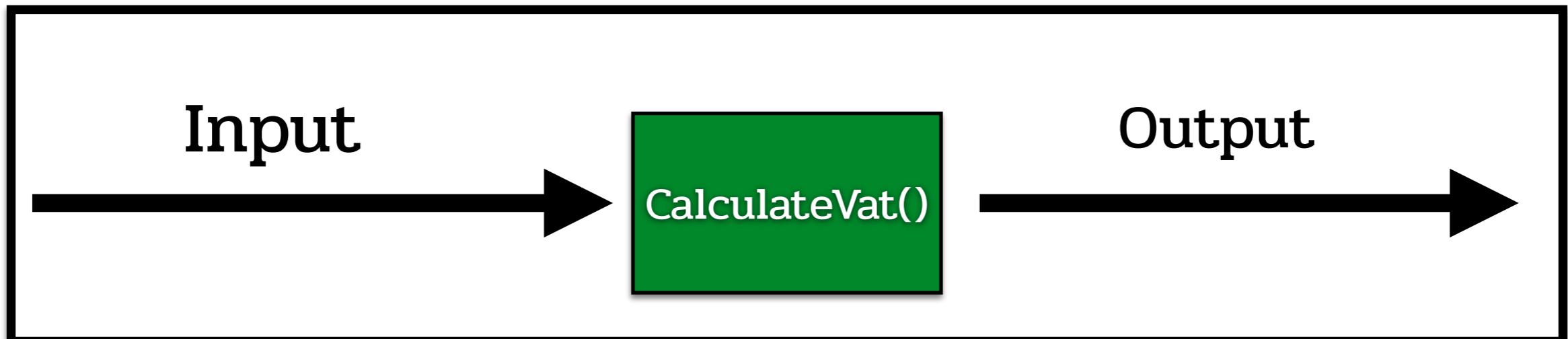
What is testing level

| | | |
|-------------------|---|---|
| UI |  Robot Framework |  Cypress |
| API |  Robot Framework |  Postman |
| Function / Method |  Java |  Jest  Golang |
| Database |  Java |  Jest  Golang |
| Third Party |  Stubby4j |  Mountebank  Golang |



What is testing level

Unit Test = Functions, Methods



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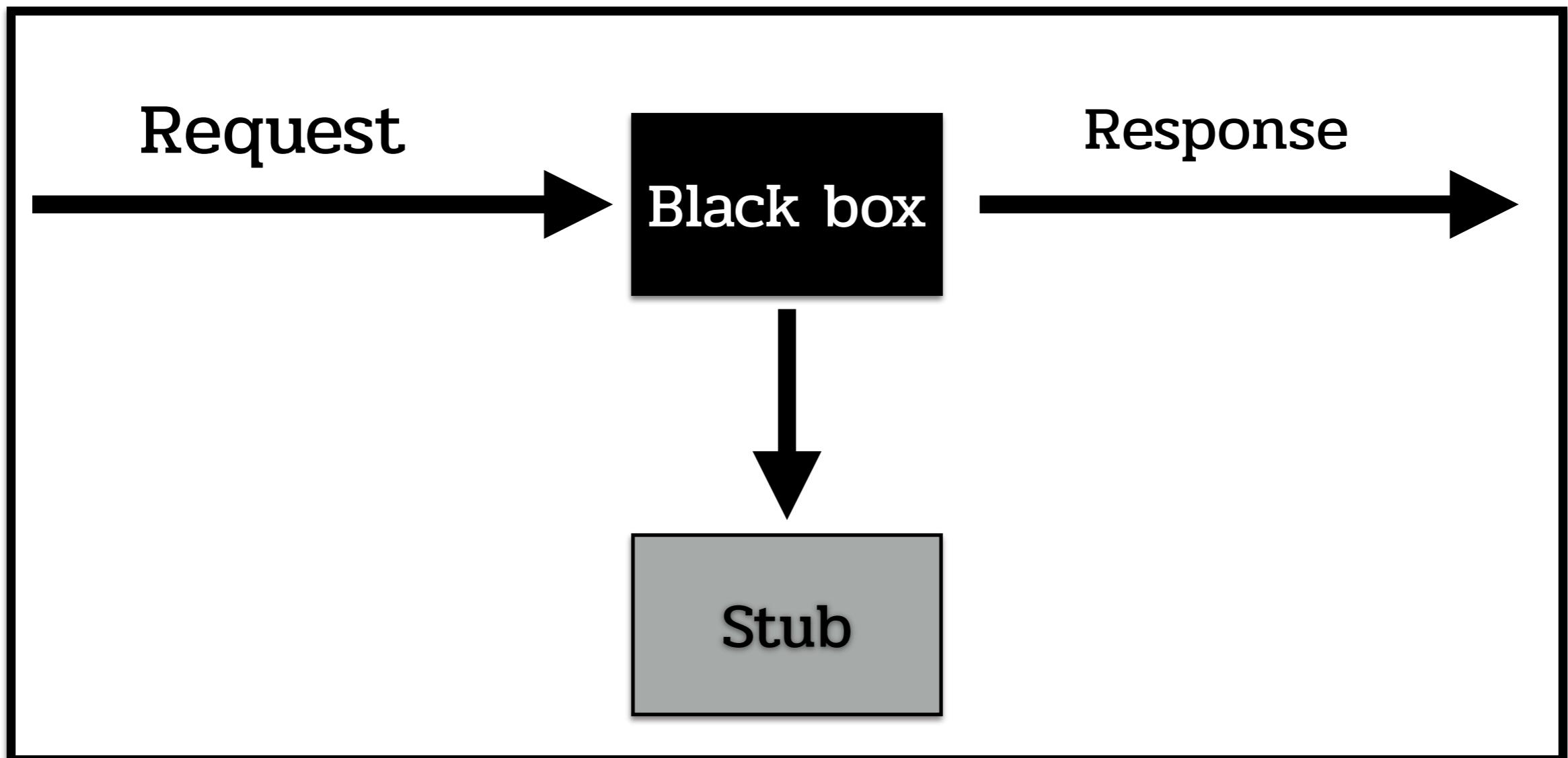
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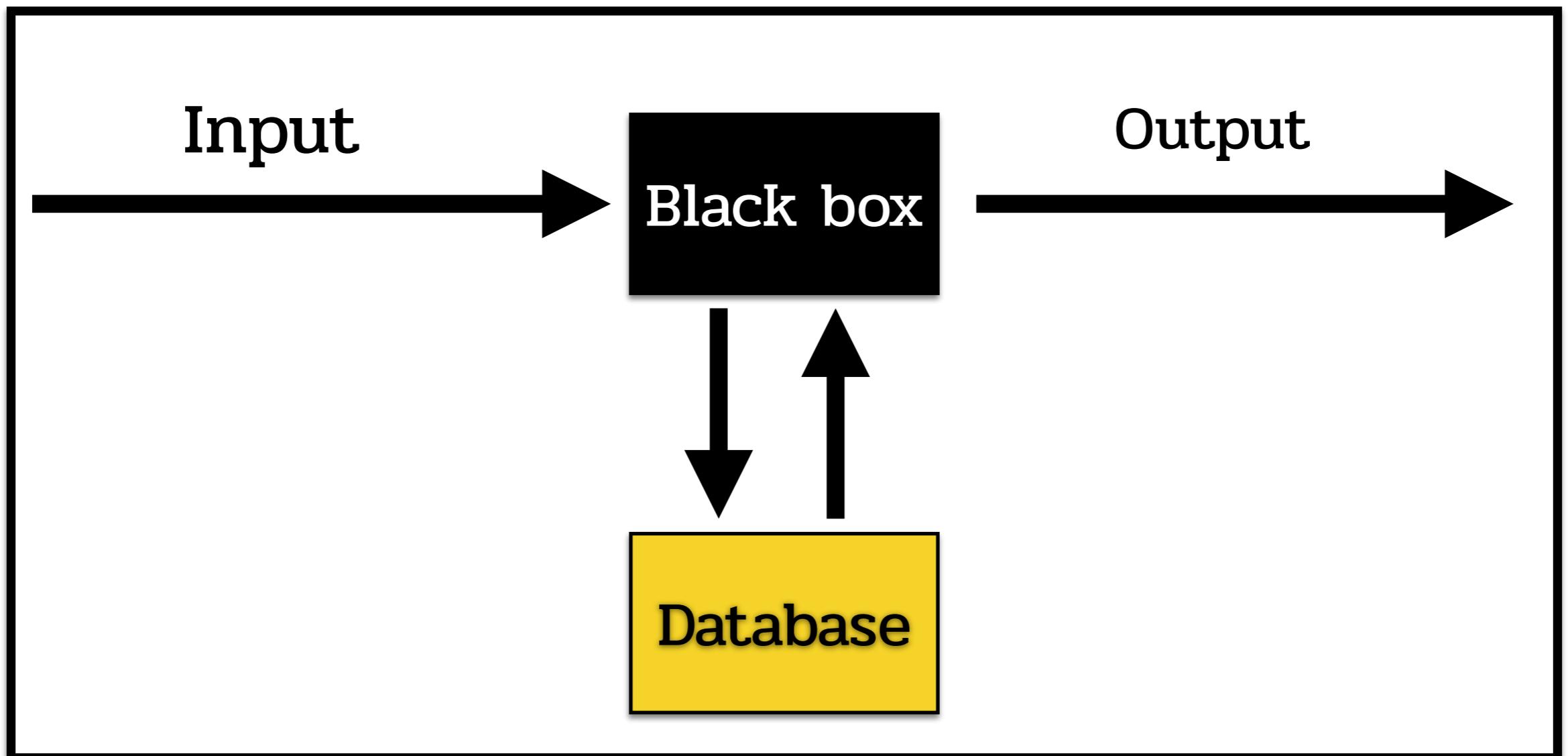
What is testing level

Component Test = Functions + System + API



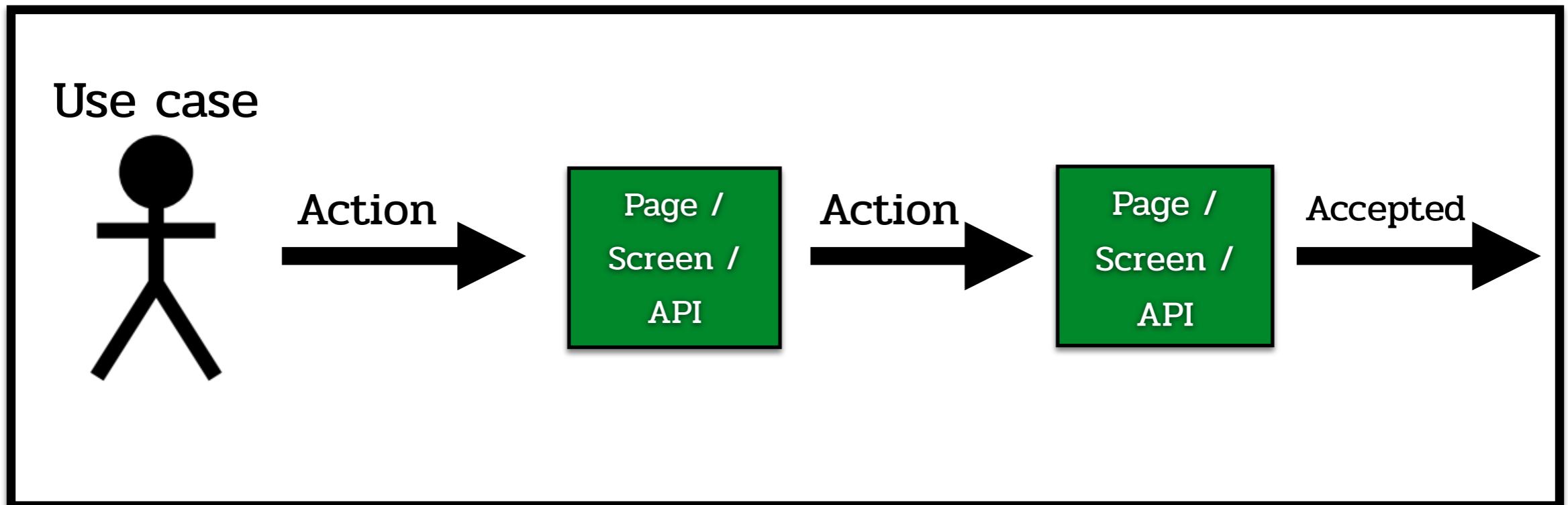
What is testing level

Integration Test = Functions, Classes, Modules



What is testing level

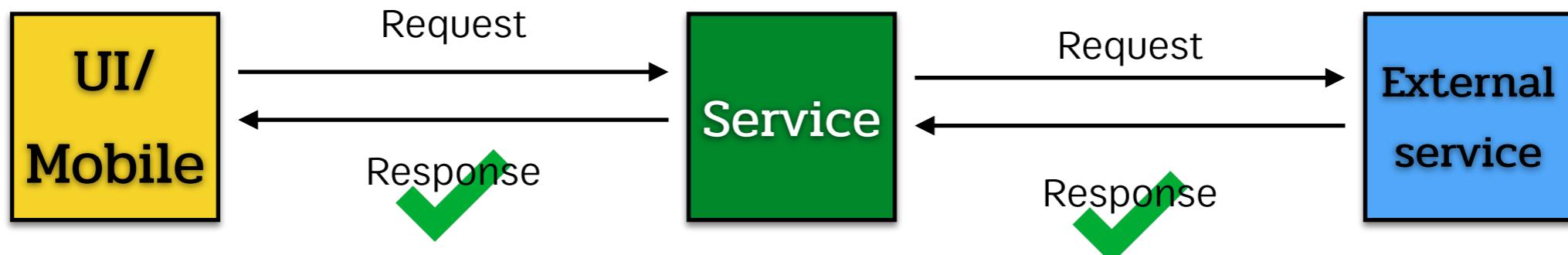
End-to-End Test / Functional = Simulate User Interaction



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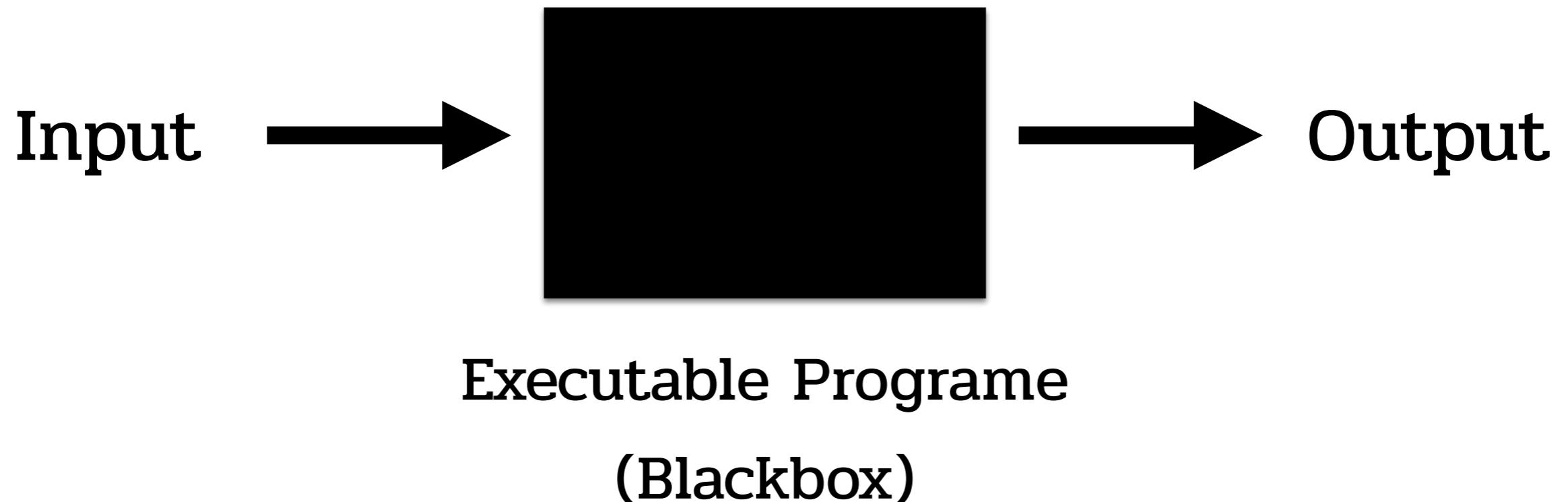
Why we should test API

Application programming interface(API) example RESTs, SOAP

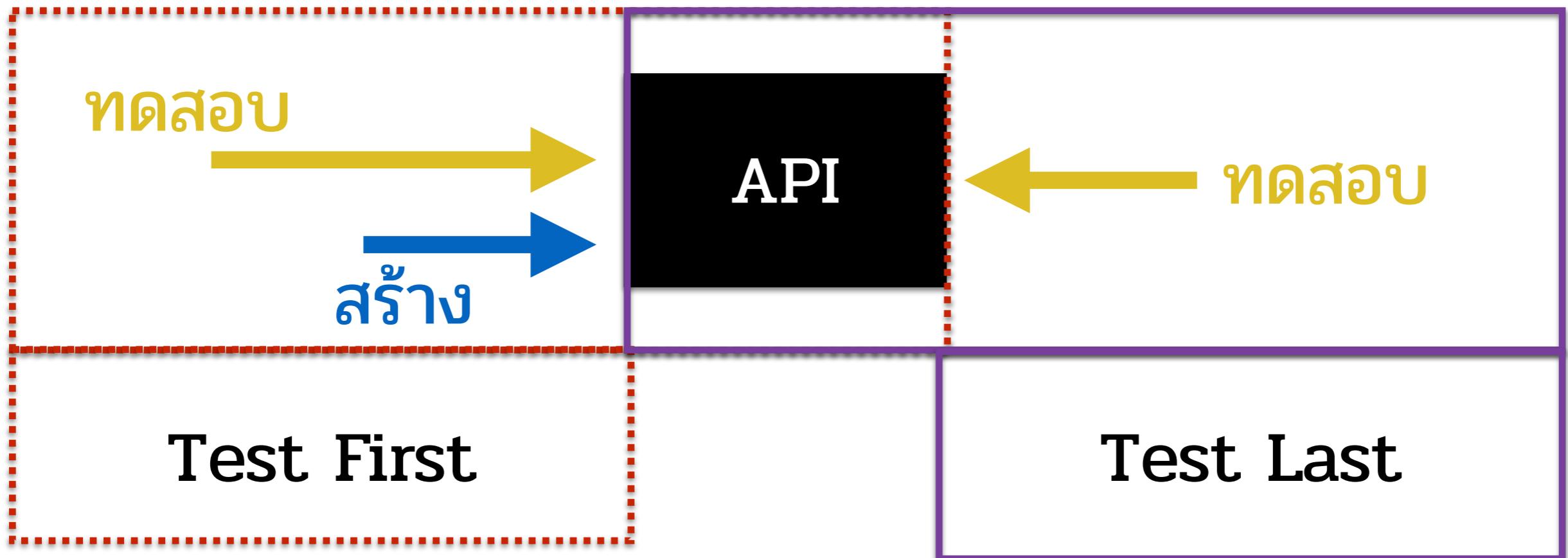


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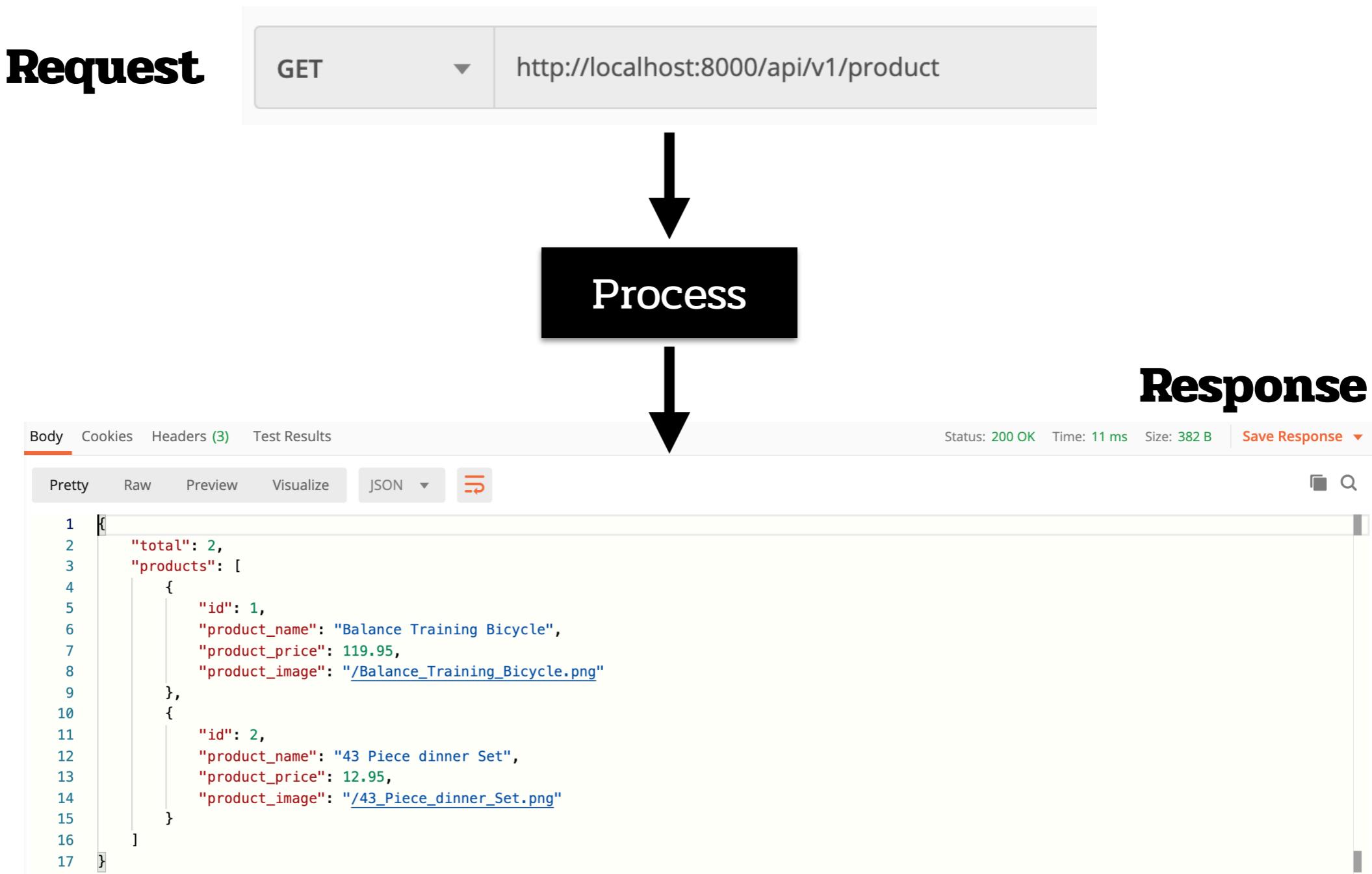
Why API testing is important



API : Test First vs Test Last



API Testing Methodologies



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Before write test API

Acceptance test

Data test

API Specification

HTTP Methods

HTTP Status code



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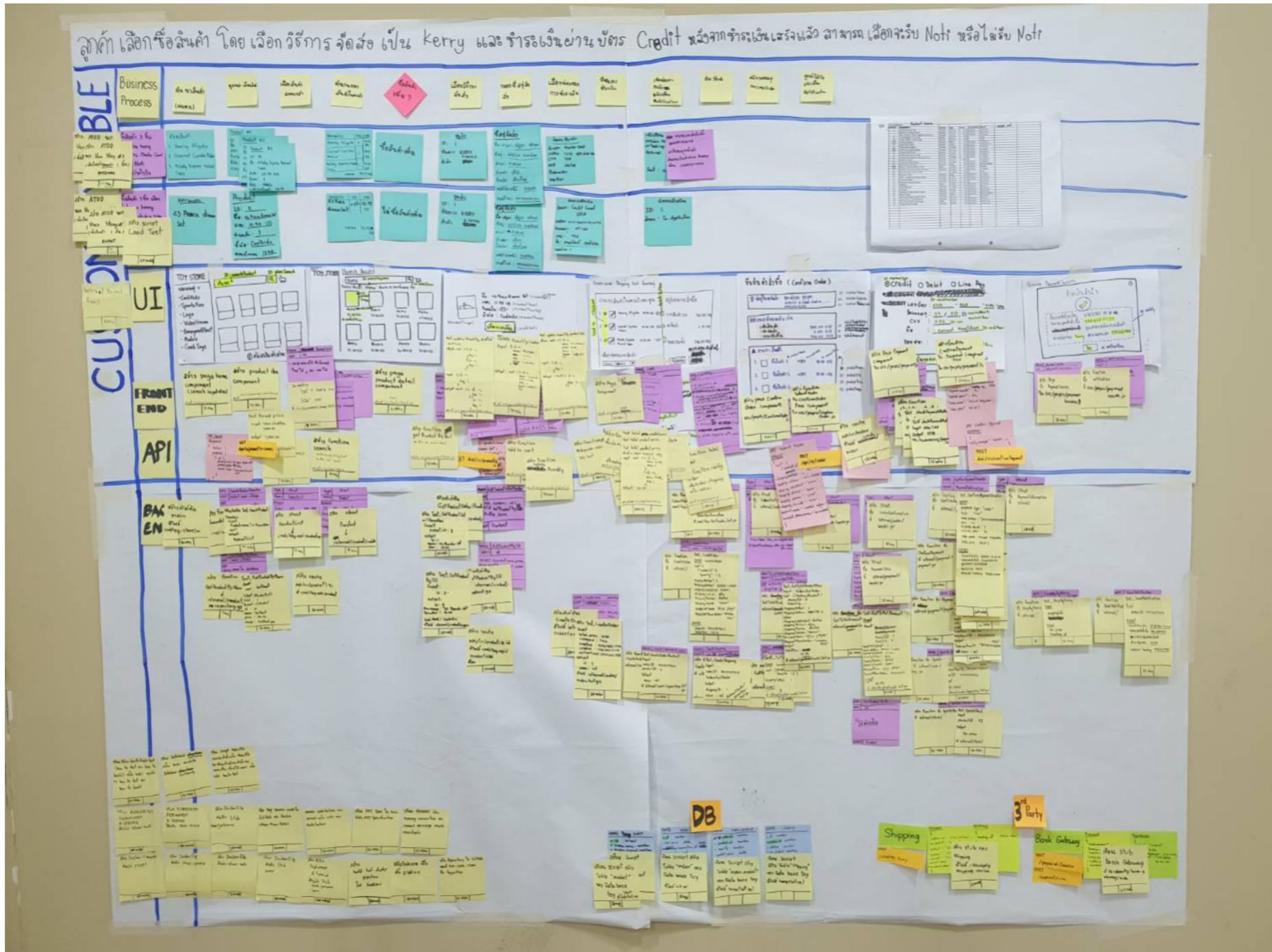
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Acceptance Test

Story #1 : ลูกค้าเลือกชื่อสินค้าโดยเลือกวิธีการจัดส่งเป็น Kerry และชำระเงินผ่านบัตร Credit หลังจากชำระเงินเสร็จแล้ว สามารถเลือกจะรับการแจ้งเตือนหรือไม่รับแจ้งเตือน



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Data test

| ชื่อสินค้า | ราคา | จำนวน | ที่อยู่ | รูปแบบการ ชำระเงิน | ประเภทการ ขนส่ง | ค่าสั่ง | เลขบัตร เครดิต |
|---------------------|-------|-------|--|-----------------------|--------------------|---------|----------------------|
| 43 Piece dinner set | 12.95 | 1 | 405/37 ถ.มหิดล ต.ท่าศาลา อ.เมือง จ.เชียงใหม่ 50000 | Credit Visa | Kerry | 2 | 47197005 91590995 |

| เลข CVV | วันหมดอายุบัตร (MM/YY) | ชื่อ-นามสกุล | ราคารวม ทั้งหมด | ข้อความการแจ้งเตือน |
|---------|---------------------------|-------------------|--------------------|---|
| 752 | 02/20 | Karnawat Wongudom | 14.95 | วันเวลาที่ชำระเงิน 1/3/2020 13:30:00 หมายเลข คำสั่งซื้อ 8004359103 คุณสามารถติดตามสินค้า ผ่านช่องทาง Kerry ด้วยหมายเลข 1785261900 |



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API Specification

Home

Nareenart edited this page yesterday · 4 revisions

API Specification

1. [API Search](#)
2. [API Product detail](#)
3. [API Submit Order](#)
4. [API Confirm Payment](#)

Database and Data Dictionary

- Database name : [toy](#)
- Table name : [products](#)
- Table name : [order_product](#)
- Table name : [shipping](#)
- Table name : [orders](#)

S



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HTTP Methods

C → Create → Post

R → Read → Get

U → Update → Put

D → Delete → Delete



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HTTP Methods

Using HTTP Methods for RESTful Services

[Quick-Tips](#)[Resource Naming](#)

The HTTP verbs comprise a major portion of our “uniform interface” constraint and provide us the action counterpart to the noun-based resource. The primary or most-commonly-used HTTP verbs (or methods, as they are properly called) are POST, GET, PUT, PATCH, and DELETE. These correspond to create, read, update, and delete (or CRUD) operations, respectively. There are a number of other verbs, too, but are utilized less frequently. Of those less-frequent methods, OPTIONS and HEAD are used more often than others.

Below is a table summarizing recommended return values of the primary HTTP methods in combination with the resource URIs:

| HTTP Verb | CRUD | Entire Collection (e.g. /customers) | Specific Item (e.g. /customers/{id}) |
|-----------|----------------|--|--|
| POST | Create | 201 (Created), 'Location' header with link to /customers/{id} containing new ID. | 404 (Not Found), 409 (Conflict) if resource already exists.. |
| GET | Read | 200 (OK), list of customers. Use pagination, sorting and filtering to navigate big lists. | 200 (OK), single customer. 404 (Not Found), if ID not found or invalid. |
| PUT | Update/Replace | 405 (Method Not Allowed), unless you want to update/replace every resource in the entire collection. | 200 (OK) or 204 (No Content). 404 (Not Found), if ID not found or invalid. |
| PATCH | Update/Modify | 405 (Method Not Allowed), unless you want to modify the collection itself. | 200 (OK) or 204 (No Content). 404 (Not Found), if ID not found or invalid. |
| DELETE | Delete | 405 (Method Not Allowed), unless you want to delete the whole collection—not often desirable. | 200 (OK). 404 (Not Found), if ID not found or invalid. |

Below is a more-detailed discussion of the main HTTP methods. Click on a tab for more information about the desired HTTP method.

ที่มา : <https://www.restapitutorial.com/lessons/httpmethods.html>



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HTTP Status code

200 - The request is OK

201 - The request is complete

400 - Bad request

401 - You're not getting in

403 - Access is forbidden to the requested page

404 - Can't find it

500 - The server met an unexpected condition

502 - The server received an invalid response

from the upstream server.

ที่มา : https://www.tutorialspoint.com/http/http_status_codes.htm



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What is Postman?



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Install Postman

<https://www.postman.com/downloads/>

POSTMAN Product ▾ How Collaboration Works Use Cases ▾ Pricing Enterprise Explore Learning Center Dashboard

Get Postman for Mac

Join 10 million developers and download the **ONLY** complete API Development Environment.

Version 7.19.1 | [RELEASE NOTES](#) | [PRODUCT ROADMAP](#)

Not your OS? Download for Windows ([x32](#) / [x64](#)) or Linux ([x64](#))

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Got it!

Postman

My Workspace Invite Sign In

No Environment Comments (0)

Send Save

Untitled Request

GET postman-echo.com/get

Params Auth Headers Body Pre-req. Tests Settings Cookies Code Response

none

form-data

Request does not have a body



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หน้าหลัก Postman

The screenshot shows the Postman application interface. At the top, there's a navigation bar with 'New', 'Import', 'Runner', and other icons. Below it is a search bar labeled 'Filter' and tabs for 'History', 'Collections', and 'APIs'. A 'Save Responses' toggle is also present. The main area is titled 'Launchpad' and displays a message: 'Good afternoon, Karnawat ss!'. It encourages users to start something new, pick up where they left off, or explore resources. Below this, there are sections for 'Recent workspaces' (ArtisanSCK, Team Workspace) and 'Customize' (Dark mode, Enable Launchpad). On the right side, there are two large boxes: 'Work smarter with Postman' containing six lessons (Designing and mocking APIs, Debugging and manual testing, Automated testing, API documentation, Monitoring, Collaboration), and 'What's new with Postman' containing news about v7.24 and improved filters for monitoring results.



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Working with API request

1. กดเครื่องหมายลักษณ์ +

2. เลือก Method = GET

3. พิมพ์ URL = <https://api.umd.io/v1/courses>

4. กด Send

5. ดู Response

The screenshot shows the Postman interface with the following details:

- Method:** GET
- URL:** https://api.umd.io/v1/courses
- Body:** (Empty)
- Headers:** (14 items)
- Test Results:** (1/1)
- Status:** 200 OK
- Time:** 1266 ms
- Size:** 21.05 KB
- Save Response:** (button)

The response body is displayed in JSON format:

```
1 [  
2 {  
3   "course_id": "AASP100",  
4   "semester": "202008",  
5   "name": "Introduction to African American Studies",  
6   "dept_id": "AASP",  
7   "department": "African American Studies",  
8   "credits": "3",  
9   "description": "Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present.",  
10  "grading_method": [  
11    "Regular",  
12    "Pass-Fail",  
13    "Audit"  
14  ],  
15  "gen_ed": [  
16    [  
17      "DSHS",  
18      "DVUP"  
19    ]  
20  ],  
21  "core": [  
22    "SH",  
23    "D"  
24  ],  
25  "relationships": {  
26    "  
27    "
```



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Working with API request

Filter

History Collections APIs

Save Responses Clear all

▼ Today

GET https://api.umd.io/v1/courses

GET https://api.umd.io/v1/courses

GET https://api.umd.io/v1/courses

GET https://api.umd.io/v1/courses

GET https://api.umd.io/v1/bus/route
S

GET https://api.umd.io/v1/bus

หลังกด Send มาเลือก History จะเห็นว่ามีประวัติการเรียก Request



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Working with API request

The screenshot shows the Postman interface with a successful API request. The request URL is `https://api.umd.io/v1/courses/list`. The response status is 200 OK, time is 3.99 s, and size is 324.6 KB. The response body is a JSON array of course objects:

```
1
2 {
3     "course_id": "AASP100",
4     "name": "Introduction to African American Studies"
5 },
6 {
7     "course_id": "AASP100H",
8     "name": "Introduction to African American Studies"
9 },
10 {
11     "course_id": "AASP101",
12     "name": "Public Policy and the Black Community"
13 },
14 {
15     "course_id": "AASP200",
16     "name": "African Civilization"
17 },
18 {
19     "course_id": "AASP202",
20     "name": "Black Culture in the United States"
21 },
```

A large blue overlay box with white text reads: "เพิ่ม API request อีก 1 เส้น".



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Working with API request

Untitled Request

Comments 0

GET https://api.umd.io/v1/courses

GET https://api.umd.io/v1/courses/list

GET https://api.umd.io/v1/courses/s...

No Environment

Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

| KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|-----|-------|-------------|-----|-----------|
| Key | Value | Description | | |

Body Cookies Headers (11) Test Results Status: 200 OK Time: 656 ms Size: 759 B Save Response ▾

Pretty Raw Preview Visualize JSON

```
1 [
2 {
3   "course": "ENGL101",
4   "section_id": "ENGL101-0101",
5   "semester": "202008",
6   "number": "0101",
7   "seats": "16",
8   "meetings": [
9     {
10       "days": "MWF",
11       "room": "0201",
12       "building": "TWS",
13       "classtype": "",
14       "start_time": "9:00am",
15       "end_time": "9:50am"
16     }
17   ],
18   "open_seats": "14",
19   "waitlist": "0",
20   "instructors": [
21     "William Pittman"
22   ]
23 }
```

เพิ่ม API request อีก 1 เส้น



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Working with API request

Untitled Request Comments 0

GET https://api.umd.io/v1/courses/MATH140 Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

| KEY | VALUE | DESCRIPTION | ... | Bulk Edit |
|-----|-------|-------------|-----|-----------|
| Key | Value | Description | | |

Body Cookies Headers (11) Test Results Status: 200 OK Time: 1141 ms Size: 2.22 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 [
2 {
3     "course_id": "MATH140",
4     "semester": "202008",
5     "name": "Calculus I",
6     "dept_id": "MATH",
7     "department": "Mathematics",
8     "credits": "4",
9     "description": "Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite integrals, and applications of integration.",
10    "grading_method": [
11        "Regular",
12        "Pass-Fail",
13        "Audit"
14    ],
15    "gen_ed": [
16        [
17            "FSAR",
18            "FSMA"
19        ]
20    ],
21    "core": [
22        "MS"
23    ],
24 }
```

เพิ่ม API request อีก 1 เส้น



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Working with API request

The screenshot shows the Postman interface with a GET request to `https://api.umd.io/v1/courses/MATH140`. The response status is 200 OK, time is 1141 ms, and size is 2.22 KB. The response body is a JSON object:

```
1 [ { 2   "course_id": "MATH140", 3   "semester": "Fall", 4   "name": "Calculus I", 5   "dept_id": "MAT", 6   "department": "Mathematics", 7   "credits": "4", 8   "description": "Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals.", 9   "grading_method": [ 10     "Regular", 11     "Pass-Fail", 12     "Audit" 13   ], 14   "gen_ed": [ 15     [ 16       "FSAR", 17       "FSMA" 18     ] 19   ], 20   "core": [ 21     "MS" 22   ], 23 } ]
```



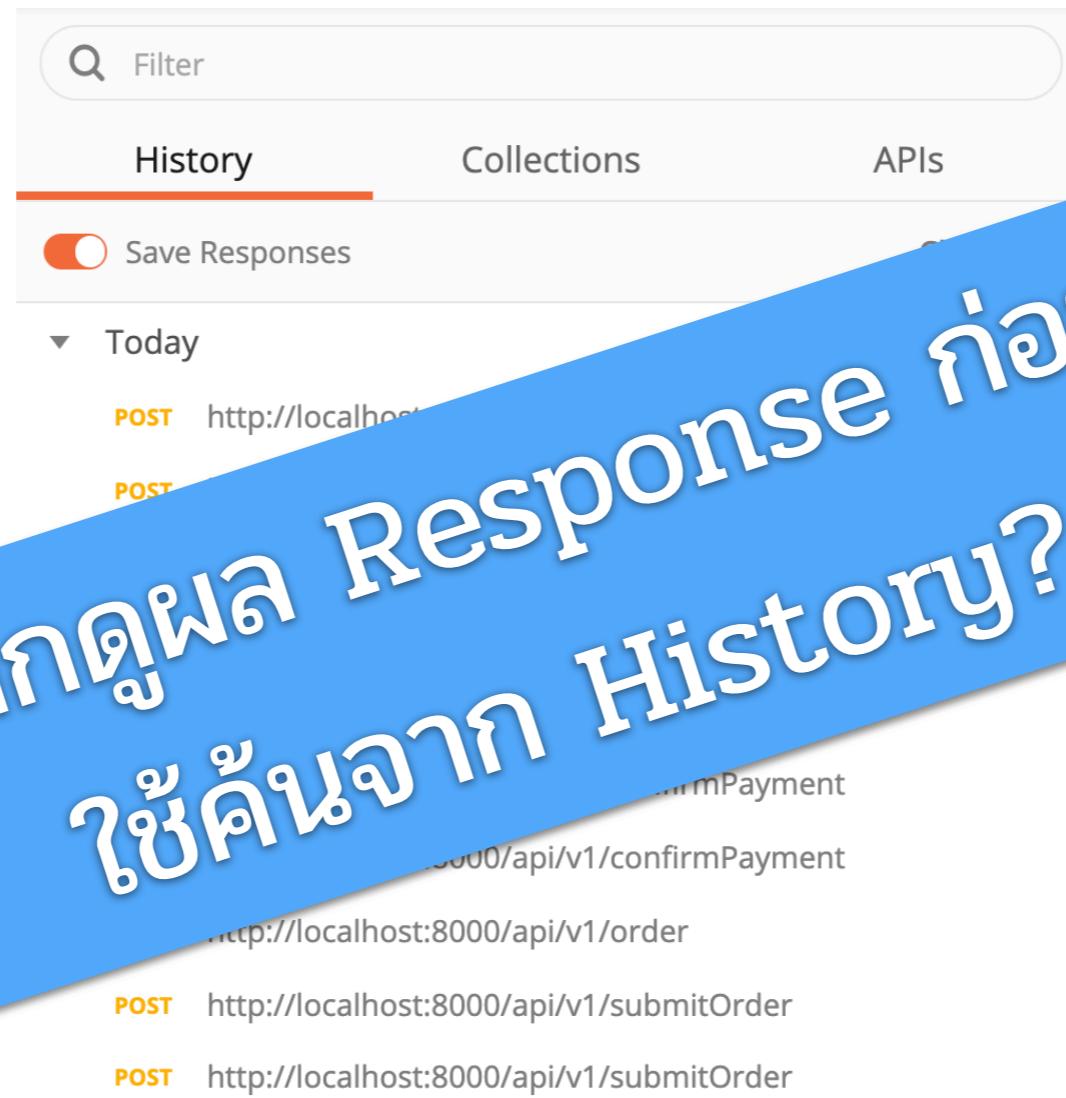
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Working with API request



The screenshot shows a REST client interface with a search bar labeled 'Filter' and three tabs: 'History' (selected), 'Collections', and 'APIs'. A 'Save Responses' toggle is turned off. Below the tabs, a date dropdown is set to 'Today'. The main area displays a list of API requests:

- POST http://localhost:8000/api/v1/confirmPayment
- POST http://localhost:8000/api/v1/confirmPayment
- POST http://localhost:8000/api/v1/order
- POST http://localhost:8000/api/v1/submitOrder
- POST http://localhost:8000/api/v1/submitOrder
- GET http://localhost:8000/api/v1/product/1
- GET http://localhost:8000/api/v1/product/:id
- GET http://localhost:8000/api/v1/product
- GET http://localhost:8000/api/v1/product
- GET http://localhost:8000/api/v1/product

A large blue diagonal banner across the middle of the screen contains the text 'ถ้าอยากดูผล Response ก่อนหน้า
ใช้ค้นจาก History?' in white.



Working with Collection

The screenshot shows a top navigation bar with a search bar labeled 'Filter'. Below it are four tabs: 'History', 'Collections' (which is highlighted with a red border), 'APIs', and 'Trash'. At the bottom left, there is a red-bordered button labeled '+ New Collection'.

1. เลือก “+ New Collection”

The dialog box has a title 'CREATE A NEW COLLECTION'. It contains a 'Name' field with the placeholder 'Collection Name', which is also highlighted with a red border. Below the name field are tabs for 'Description', 'Authorization', 'Pre-request Scripts', 'Tests', and 'Variables', with 'Description' being the active tab. A note below the tabs states: 'This description will show in your collection's documentation, along with the descriptions of its folders and requests.' A large text area for the description is present, with the placeholder 'Make things easier for your teammates with a complete collection description.' Below this area, a note says 'Descriptions support Markdown'.

2. ตั้งชื่อ Collection

3. ระบุ Description
ว่าทดสอบงานของอะไร (optional)

4. Create



Working with Collection

หลังจากสร้างจะบันทึก Collection ที่สร้างขึ้นมา
ให้กลับมาที่ Request ที่สร้างไว้

Example UMD

0 requests

This collection is empty. [Add requests](#) to this collection and create folders to organize them

1. กด Save Request

GET https://api.umd.io/v1/courses

GET https://api.umd.io/v1/courses/list

SAVE REQUEST

2. ตั้งชื่อ (Request name)

Request name

https://api.umd.io/v1/courses

Request description (Optional)

Make things easier for your teammates with a complete request description.

Descriptions support [Markdown](#)

3. เลือก Collection ที่สร้างไว้

Search for a collection or folder

◀ Example UMD + Create Folder

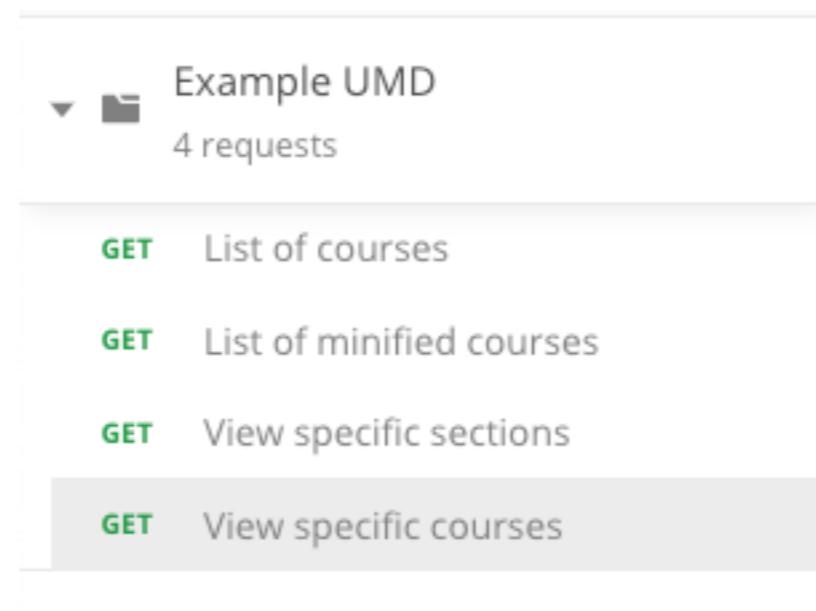
4. Save to Collection ที่สร้างไว้

Cancel Save to Example UMD



Working with Collection

หลังจาก Save to Collection จะมี API ที่สร้างไว้ตอนแรกเพิ่มมาใน Collection ดังรูป



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Working with Collection

Example UMD

API This collection is not linked to any API

Share Run View in web ...

กด Run เพื่อเข้าสู่หน้า Collection Runner

Add a description

GET List of courses

GET List of minified courses

GET View specific sections

GET View specific courses



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Working with Collection

The screenshot shows the Collection Runner interface. At the top, there's a navigation bar with 'Collection Runner' on the left, 'My Workspace' in the center, and 'Run In Command Line' and 'Docs' on the right. Below the navigation bar, there's a search bar labeled 'Search for a collection or folder'. To the right of the search bar is a 'RUN ORDER' section containing four items, each with a checked checkbox and a 'GET' method. The items are: 'List of courses', 'List of minified courses', 'View specific sections', and 'View specific courses'. At the bottom right of this section are three buttons: 'Deselect All', 'Select All', and 'Reset'. On the left side of the main area, there's a sidebar with 'Example UMD' expanded, showing five 'GET' requests: 'List of courses', 'List of minified courses', 'View specific sections', 'View specific courses', and another 'List of courses'. Below this sidebar are configuration options: 'Environment' set to 'No Environment', 'Iterations' set to 1, 'Delay' set to 0 ms, 'Data' with a 'Select File' button, and several checkboxes for saving responses, keeping variable values, running without cookies, and saving cookies after run. At the bottom, there are two large blue buttons: 'Run Example UMD' (which has a red border) and 'Run'.



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Working with Collection

The screenshot shows the Collection Runner interface with the following details:

- Collection Runner** tab is selected.
- Run Results** tab is visible.
- My Workspace** dropdown shows "My Workspace".
- Run In Command Line** and **Docs** buttons are present.
- Example UMD** run was just now completed.
- Iteration 1** contains four requests:
 - GET List of courses** (https://api.umd.io/v1/co...): Status 200 OK, 1553 ms, 21.552 KB. This request does not have any tests.
 - GET List of minified courses** (https://api.umd.io/v1/co...): Status 200 OK, 2442 ms, 332.395 KB. This request does not have any tests.
 - GET View specific sections** (https://api.umd.io/v1/co...): Status 200 OK, 514 ms, 759 B. This request does not have any tests.
 - GET View specific courses** (https://api.umd.io/v1/co...): Status 200 OK, 533 ms, 2.277 KB. This request does not have any tests.
- A large blue button at the bottom center says **ผลลัพธ์ที่ได้** (Results obtained).



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Afternoon



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Install Mountebank



```
npm install mountebank -g
```

Requires nodeJS of v6

```
npm install npm -g
```

Start mountebank

```
mb start --configfile deposit.json
```



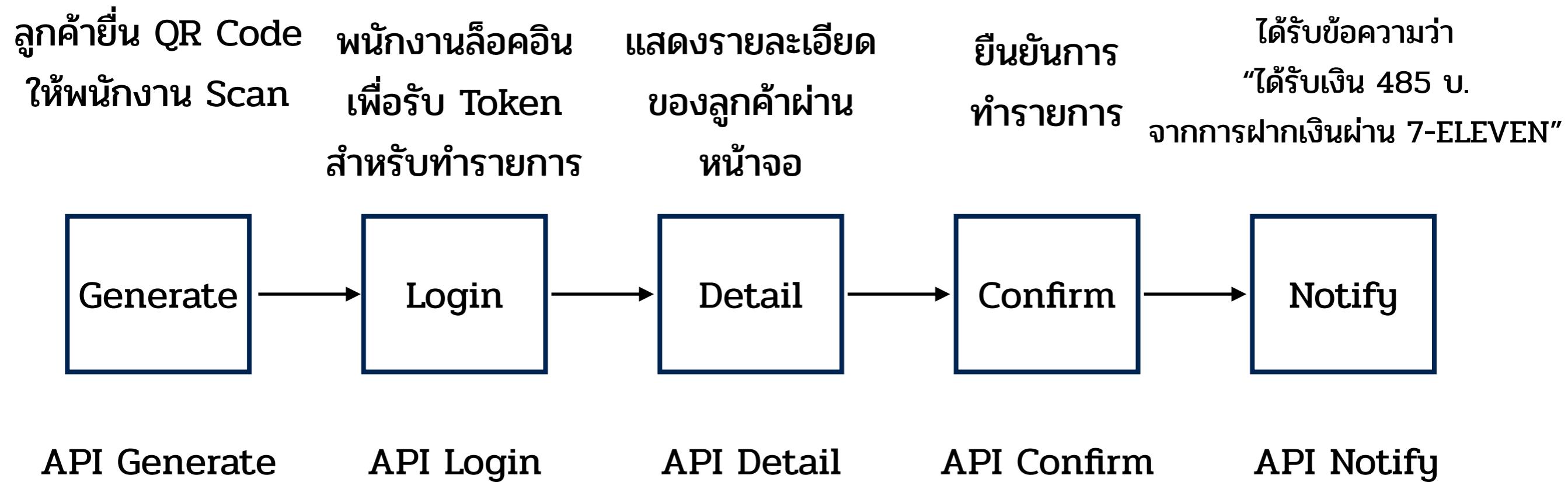
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Working with Test



ดูเพิ่มเติม : [api-specification-for-deposit.pdf](#)



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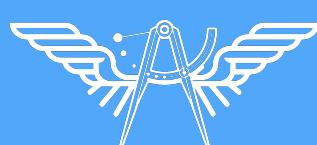
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Working with Test

| Story | API: Generate Reference Code | |
|--|---|---|
| | Method : POST, URL : /api/v1/transaction/generate | |
| | Request | Response |
| <p>เลือกไปฝากเงินผ่าน 7-11 จำนวนเงิน 500 บาท ชั่งเลือกอายุ 24 ปี จึงเสียค่าธรรมเนียม 15 บาท ในวันที่ 27 ธันวาคม 2020 เวลา 14.00 น.</p> <p>ด้วยจำนวนเงิน 500 บาท เสียค่าธรรมเนียมให้กับ 7-11 จำนวน 15 บาท เหลือเงินฝากเข้าจริง คือ 485 บาท</p> <p>พนักงาน 7-11 ล็อคอินเข้าสู่ระบบเพื่อรับ Token สำหรับทำรายการฝากเงินให้กับลูกค้า ทำการสแกน QR Code จากโทรศัพท์ลูกค้า สถานะของ QR Code เปลี่ยนเป็น Used และแสดงรายละเอียดข้อมูลของลูกค้า</p> <p>กดยืนยัน สถานะของ QR Code จะต้องเปลี่ยนเป็น Complete ลูกค้าได้รับข้อความแจ้งเตือนว่าทำรายการฝากเงินสำเร็จ</p> | <pre>{ "type": "deposit", "account_number": "2000000012541", "account_name": "Panumars Saento", "user_id": "573020145", "fee": "15.00", "cash_paid": "500.00", "deposit_amount": "485.00", "transaction_datetime": "20201227140030", "reference_code": "M181130101242968173", "transaction_id": "3258001" }</pre> | <pre>// Success (status code: 200) { "status": "ready to scan", "type": "deposit", "account_number": "2000000012541", "account_name": "Panumars Saento", "fee": "15.00", "cash_paid": "500.00", "deposit_amount": "485.00", "reference_code": "M181130101242968173", "expired_datetime": "20201227140219" }</pre> |

ดูเพิ่มเติม : Google Sheet ใน MATERIAL/Day2/DATA-TEST-DEPOST



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Working with Test

GET http://localhost:8000/api/v1/product Send Save

Params Authorization Headers (7) Body Pre-request Script Tests ● Settings Cookies Code

```
1 pm.test("Status code is 200", function () {  
2     pm.response.to.have.status(200);  
3 };  
4  
5 pm.test("มีสินค้าชื่อ 43 Piece dinner Set", function () {  
6     var jsonData = pm.response.json();  
7     pm.expect(jsonData.products[1].product_name).to.eql("43 Piece dinner Set");  
8 };  
9  
10 pm.test("สินค่าราคา 12.95", function () {  
11     var jsonData = pm.response.json();  
12     pm.expect(jsonData.products[1].product_price).to.eql(12.95);  
13 };  
14  
15 pm.  
16     1 {  
17         "total": 2,  
18     };  
19         "products": [  
20             {  
21                 "id": 1,  
22                 "product_name": "Balance Training Bicycle",  
23                 "product_price": 119.95,  
24                 "product_image": "/Balance_Training_Bicycle.png"  
25             },  
26             {  
27                 "id": 2,  
28                 "product_name": "43 Piece dinner Set",  
29                 "product_price": 12.95,  
30                 "product_image": "/43_Piece_dinner_Set.png"  
31             }  
32         ]  
33     };
```

2. ตั้งชื่อ Test Case

3. Assert ของที่คาดหวัง

1. เลือกว่าจะทดสอบอะไร

Learn more about tests scripts

SNIPPETS

Send a request

Status code: Code is 200

Response body: Contains string

Response body: JSON value check

Response body: Is equal to a string

Response headers: Content-Type header check

Response time is less than 200ms

Status code: Successful POST request



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Working with Test

Run Collection Runner สิ่งที่เปลี่ยนไปจาก จะมี Test Case เพิ่มเข้ามา

The screenshot shows the Postman Collection Runner interface. At the top, there are two circular icons: a green one labeled "10 PASSED" and a red one labeled "0 FAILED". Below them, the title "Example (Class Postman)" and the status "just now" are displayed. To the right are buttons for "Run Summary", "Export Results", "Retry", and "New".

The main area displays three API requests under "Iteration 1":

- GET search product**: Status code is 200, มีสินค้าชื่อ 43 Piece dinner Set, สินค้าราคา 12.95, จัดตั้งแสดงรูป 43_Piece_dinner_Set. A blue box with the text "หลังเบี่ยน Test" is overlaid on this section.
- GET selected product**: Status code is 200, เลือกสินค้า 43 Piece dinner Set id = 2, สินค้าชื่อ 43 Piece dinner Set, สินค้ามีราคา 12.95, เลือกจำนวนสินค้า 10 ชิ้น, อยู่ในหมวดหมู่ของ CoolKidz. A blue box with the text "ก่อนเบี่ยน Test" is overlaid on this section.
- POST order**: This request does not have any tests.

Each request row includes a "Run Summary" button, a "200 OK" status indicator, a "6 ms" response time, and a "382 B" size indicator.



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Working with Test

ເບີນກາຣທດສອບໃຫ້ຮົບ



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10 Minutes Break



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Working with Test

- ▶  Example (Class Postman)
4 requests
 - ▶  Example2 (Class Postman)
4 requests
 - ▶  Example3 (Class Postman)
4 requests



```
1 pm.test("Status code is 200", function () {
2     pm.response.to.have.status(200);
3 });
4
5 pm.test("เลือกสินค้า 43 Piece dinner Set id = 2", function () {
6     var jsonData = pm.response.json();
7     pm.expect(jsonData.id).to.eql(2);
8 });
9
10 pm.test("สินค้าชื่อ 43 Piece dinner Set", function () {
11     var jsonData = pm.response.json();
12     pm.expect(jsonData.product_name).to.eql("43 Piece dinner Set");
13 });
14
15 pm.test("สินค้ามีราคา 12.95", function () {
16     var jsonData = pm.response.json();
17     pm.expect(jsonData.product_price).to.eql(12.95);
18 });
19
20 pm.test("เลือกสินค้า 43 Piece dinner Set id = 2", function () {
21     var jsonData = pm.response.json();
22     pm.expect(jsonData.id).to.eql(2);
23 });
24
25 pm.test("สินค้าชื่อ 43 Piece dinner Set", function () {
26     var jsonData = pm.response.json();
27     pm.expect(jsonData.product_name).to.eql("43 Piece dinner Set");
28 });
29
30 pm.test("สินค้ามีราคา 12.95", function () {
31     var jsonData = pm.response.json();
32     pm.expect(jsonData.product_price).to.eql(12.95);
33 });
34
```

```
1 pm.test("Status", function () {
2     pm.expect(pm.response.status).to.eql(200);
3 });
4
5 pm.test("ลิ้นค้าชื่อ 43 Piece dinner Set id = 2", function () {
6     var jsonData = pm.response.json();
7     expect(jsonData.id).to.eql(2);
8 });
9
10 pm.test("ลิ้นค้าชื่อ 43 Piece dinner Set", function () {
11     var jsonData = pm.response.json();
```



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Data File

| product_id | product_name | product_price | product_brand | product_image |
|------------|---------------------|---------------|---------------|--------------------------|
| 2 | 43 Piece dinner Set | 12.95 | CoolKidz | /43_Piece_dinner_Set.png |

CSV : Keyword (Column), Iteration Data (Row)



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Data File

```
1 {  
2   "cart": [  
3     {  
4       "product_id": "{{product_id}}",  
5       "quantity": "{{quantity}}"  
6     }  
7   ],  
8   "shipping_method": "{{shipping_method}}",  
9   "shipping_address": "405/37 ถ.มหิดล",  
10  "shipping_sub_district": "ต.ท่าศาลา",  
11  "shipping_district": "อ.เมือง",  
12  "shipping_province": "จ.เชียงใหม่",  
13  "shipping_zip_code": "50000",  
14  "recipient_name": "ณัฐญา ชุดบุตร",  
15  "recipient_phone_number": "0970809292"  
16 }
```

การกำหนดชีวตัวแปรใน postman ให้ใส่ {{ตัวแปร}}



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Data File

Params Authorization Headers (7) Body Pre-request Script **Tests** ● Settings

```
1 pm.test("Status code is 200", function () {
2   | pm.response.to.have.status(200);
3 );
4
5 pm.test("มีสินค้าชื่อ 43 Piece dinner Set", function () {
6   | var jsonData = pm.response.json();
7   | pm.expect(jsonData.products[1].product_name).to.eql(data["product_name"]);
8 );
9
10 pm.test("สินค่าราคา 12.95", function () {
11   | var jsonData = pm.response.json();
12   | pm.expect(jsonData.products[1].product_price).to.eql(12.95);
13 );
```

เปลี่ยนจาก Hard code ใน Test เป็นดึงจาก Data File
โดยเปลี่ยน data[“variable”]



Data File

Collection Runner My Workspace ▾ Run In Command Line Docs

Choose a collection or folder

Search for a collection or folder

◀ Example (Class Postman)

GET search product
GET selected product
POST order
POST confirm payment

RUN ORDER

Deselect All | Select All | Reset

✓ GET search product
✓ GET selected product
✓ POST order
✓ POST confirm payment

Environment No Environment

Iterations 1

Delay 0 ms

Data Select File example.csv X

Data File Type text/csv ▾ Preview

Save responses ⓘ
 Keep variable values ⓘ
 Run collection without using stored cookies
 Save cookies after collection run ⓘ

Run Example (Clas...)

Import file data ที่สร้างไว้เข้ามา



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Data File

ผลของ Collection Runner ยังต้องเหมือนเดิม

The screenshot shows the Collection Runner interface with the following details:

- Collection Runner** tab is selected.
- Run Results** tab is visible.
- My Workspace** dropdown shows "No Environment".
- Run Summary**, **Export Results**, **Retry**, and **New** buttons are present.
- Iteration 1** results:
 - GET search product**: Status code is 200, 200 OK, 6 ms, 382 B. Includes tests: สินค้าชื่อ 43 Piece dinner Set, สินค่าราคา 12.95, จะต้องแสดงรูป 43_Piece_dinner_Set.
 - GET selected product**: Status code is 200, 200 OK, 10 ms, 276 B. Includes tests: เลือกสินค้า 43 Piece dinner Set id = 2, สินค้าชื่อ 43 Piece dinner Set, สินค่ามีราคา 12.95, เลือกจำนวนสินค้า 10 ชิ้น, อัญหราดหมุ่ของ CoolKidz.
 - POST order**: This request does not have any tests.



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Data File

เปลี่ยนจาก Hard code ให้ใช้ Data File แทน



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Data File

ปัญหาที่เจอใน Excel แปลง CSV
ในการนี้ที่ Response / Output เป็น String

Excel

| | A | B | C |
|---|----------------|-------|-----------|
| 1 | account_number | fee | cash_paid |
| 2 | 2000000012541 | 15.00 | 500.00 |
| 3 | | | |



CSV

```
data-file > Book1.csv
1 account_number,fee,cash_paid
2 2000000012541,15.00,500.00
```



Data File

ผลลัพธ์ที่ได้

| Iteration | account_number | fee | cash_paid |
|-----------|----------------|-----|-----------|
| 1 | 2000000012541 | 15 | 500 |

Postman จะอ่านเป็น float โดยจะไม่มีทศนิยม 00 แสดง



POST generate http://localhost:3000/api... deposit_csv แบบ 3 / generate 200 OK 13 ms 473 B

- Status code is 200
- reference code is M181130101242968173
- status is ready to scan
- type is deposit

ผลลัพธ์ที่ได้จะไม่ผ่าน เนื่องจาก response เป็น 15.00 (string) เทียบกับ 15 (float)

- fee is 15.00 | AssertionError: expected '15.00' to deeply equal 15
- cash_paid is 500.00
- deposit_amount is 485.00



Data File

วิธีแก้

แบบที่ 1 แก้ใน file CSV โดยใส่ “-” เข้าไป

```
data-file > Book2.csv
1 account_number,fee,cash_paid
2 2000000012541,"15.00",500.00
```



| Iteration | account_number | fee | cash_paid |
|-----------|----------------|---------|-----------|
| 1 | 2000000012541 | "15.00" | 500 |

Field ที่ใส่ “-”

Field ที่ไม่ใส่ “-”



Data File

ผลลัพธ์ที่ได้

POST generate http://localhost:3000/api... deposit_csv แบบ 3 / generate 200 OK 37 ms 473 B

- Status code is 200
- reference code is M181130101242968173
- status is ready to scan
- type is deposit
- fee is 15.00
- cash_paid is 500.00
- deposit_amount is 485.00

สามารถเทียบกันได้



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Data File

วิธีแก้

แบบที่ 2 แก้ใน test postman โดยใส่ data["fee"] + ".00" เข้าไป

```
20 pm.test("fee is 15.00", function () {  
21     var jsonData = pm.response.json();  
22     pm.expect(jsonData.fee).to.eql(data["fee"] + ".00");  
23 };  
24
```



| Iteration | account_number | fee | cash_paid |
|-----------|----------------|-----|-----------|
| 1 | 2000000012541 | 15 | 500 |

จะต่อค่า ".00" มาให้



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Data File

ผลลัพธ์ที่ได้

POST generate http://localhost:3000/api... deposit_csv แบบ 3 / generate

200 OK 37 ms 473 B

- Status code is 200
- reference code is M181130101242968173
- status is ready to scan
- type is deposit
- fee is 15.00
- cash_paid is 500.00
- deposit_amount is 485.00

สามารถเทียบกันได้



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Data File

วิธีแก้

แบบที่ 2 แก้ใน test postman โดยใส่ data["fee"] + ".00" เข้าไป

```
20 pm.test("fee is 15.00", function () {  
21     var jsonData = pm.response.json();  
22     var newValue = data["fee"].toFixed(2).toString();  
23     pm.expect(jsonData.fee).to.eql(newValue);  
24 });
```



| Iteration | account_number | fee | cash_paid |
|-----------|----------------|-----|-----------|
| 1 | 2000000012541 | 15 | 500 |

จะรับค่าใน file data และ fix ให้มีพจนนิยม 2 ตำแหน่ง
จากนั้นทำการแปลงให้เป็น type string



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Data File

ผลลัพธ์ที่ได้

POST generate http://localhost:3000/api... deposit_csv แบบ 3 / generate

200 OK 37 ms 473 B

- Status code is 200
- reference code is M181130101242968173
- status is ready to scan
- type is deposit
- fee is 15.00
- cash_paid is 500.00
- deposit_amount is 485.00

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Data File

```
[  
  {  
    "product_id": 2,  
    "product_name": "43 Piece dinner Set",  
    "product_price": 12.95,  
    "product_brand": "CoolKidz",  
    "product_image": "/43_Piece_dinner_Set.png"  
  }  
]
```

JSON : key, value



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Environment



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Environment

1. เลือกที่芬飛อง

The screenshot shows the Postman application interface. At the top, there are buttons for 'New', 'Import', 'Runner', and a dropdown for 'My Workspace'. Below the header, there's a search bar labeled 'Filter' and tabs for 'History', 'Collections' (which is selected), and 'APIs'. In the center, there are two API requests: 'GET product detail' and 'POST submit order'. To the right, it says 'No Environment' and has 'Comments (0)', 'Examples (0)', 'Send', and 'Save' buttons. On the far right, there's a gear icon with a red box around it. A modal window titled 'MANAGE ENVIRONMENTS' is open in the center. It contains a description: 'An environment is a set of variables that allow you to switch the context of your requests. Environments can be shared between multiple workspaces.' with a link 'Learn more about environments'. It lists three environments: 'local', 'token_thaipostData', and 'UAT', each with 'Share', 'Download', and 'More' buttons. At the bottom of the modal, there are buttons for 'Globals', 'Import', and a large orange 'Add' button, which is also highlighted with a red box.

2. กด Add



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Environment

MANAGE ENVIRONMENTS X

1. Name environment

Environment Name
local

2. ชื่อตัวแปร และ endpoint ที่ใช้ยิง request

| VARIABLE | INITIAL VALUE i | CURRENT VALUE i |
|---|---|---|
| <input checked="" type="checkbox"/> url | http://localhost:8000 | http://localhost:8000 |

Add a new variable ... Persist All Reset All

3. Update

Cancel Update

i Use variables to reuse values in different places. Work with the current value of a variable to prevent sharing sensitive values with your team. [Learn more about variable values](#) X



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Environment

1. เลือกจาก No Environment -> local ที่สร้างไว้

GET search product

search product

local

Comments 0 Examples 0

Send Save

Params Authorization Headers (7) Body Pre-request Script Tests ● Settings Cookies Code

2. เปลี่ยน URL จาก <http://localhost:8000> เป็น {{url}}

```
1 {  
2   "total": 2,  
3   "products": [  
4     {  
5       "id": 1,  
6       "product_name": "Balance Training Bicycle",  
7       "product_price": 119.95,  
8       "product_image": "/Balance_Training_Bicycle.png"  
9     },  
10    {  
11      "id": 2,  
12      "product_name": "43 Piece dinner Set",  
13      "product_price": 12.95,  
14      "product_image": "/43_Piece_dinner_Set.png"  
15    }  
16  ]  
17 }
```

3. กด Send จะต้องได้ Response เหมือนเดิม



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Environment

The screenshot shows the Collection Runner interface in Postman. On the left, the sidebar has tabs for History, Collections (selected), and APIs. A red box highlights the three-dot menu icon next to the 'shopping cart success' collection. The main area shows a 'RUN ORDER' with a selected 'GET product detail' request. A large blue box contains the text '1. เลือก Run จะแสดงหน้า Collection Runner'. Below it, configuration options include 'Environment' set to 'local' (highlighted with a red dashed box), 'Iterations' set to 1, 'Delay' set to 0 ms, 'Data' with a 'Select File' button, and several checkboxes: 'Save responses' (unchecked), 'Keep variable values' (checked), 'Run collection without using stored cookies' (unchecked), and 'Save cookies after collection run' (checked). A red box highlights the 'Run shopping cart...' button. A blue box at the bottom left contains the text '2. Run'.



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Environment

ผลของ Collection Runner ยังต้องเหมือนเดิม

The screenshot shows the Postman Collection Runner interface with the following details:

- Collection Runner** tab is selected.
- Run Results** tab is visible.
- My Workspace** dropdown shows "No Environment".
- Run Summary** button is orange.
- Export Results**, **Retry**, and **New** buttons are also present.
- Iteration 1** results:
 - GET search product**: Status code is 200, 200 OK, 6 ms, 382 B. Includes tests: "Status code is 200", "สินค้าชื่อ 43 Piece dinner Set", "สินค่าราคา 12.95", "จะต้องแสดงรูป 43_Piece_dinner_Set".
 - GET selected product**: Status code is 200, 200 OK, 10 ms, 276 B. Includes tests: "Status code is 200", "เลือกสินค้า 43 Piece dinner Set id = 2", "สินค้าชื่อ 43 Piece dinner Set", "สินค่ามีราคา 12.95", "เลือกจำนวนสินค้า 10 ชิ้น", "อยู่ในหมวดหมู่ของ CoolKidz".
 - POST order**: This request does not have any tests.



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Environment

เปลี่ยนจาก Hard code ให้ใช้ตัวแปร
ของ Environment แทน



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Newman

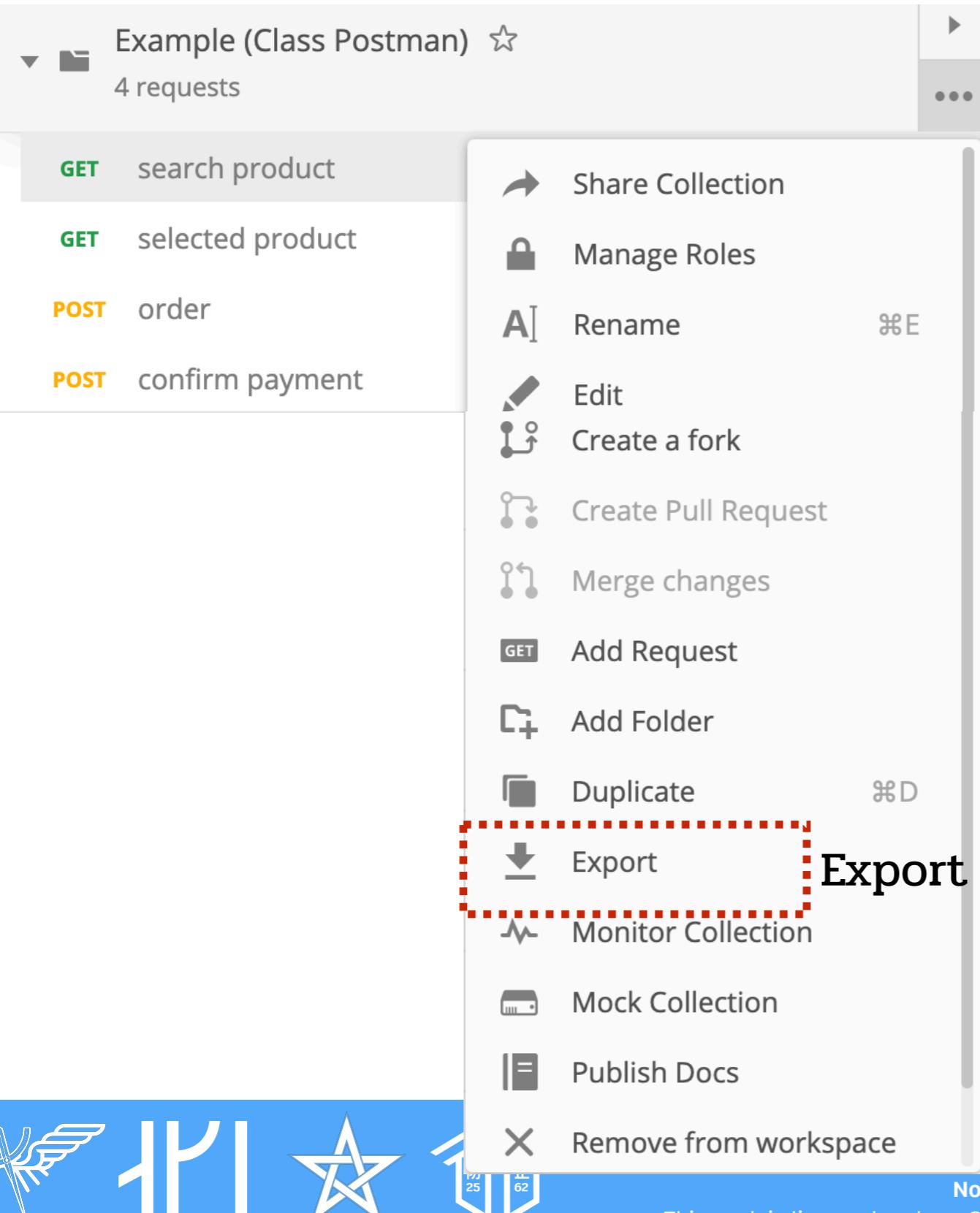


Newman is a command line Collection Runner for Postman. It allows you to run and test a Postman Collection directly from the command line



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Newman



- แนะนำให้เข้าไว้ที่เดียวกับ Project ที่จะทดสอบ
- กำหนดการตั้งชื่อไฟล์

Export Script Test ออกรมา

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Newman

ก่อนติดตั้ง newman เช็คก่อนว่ามี node หรือไม่
<https://nodejs.org/en/>



Node.js® is a JavaScript runtime built on [Chrome's V8 JavaScript engine](#).

Download for macOS (x64)

12.16.3 LTS

Recommended For Most Users

14.3.0 Current

Latest Features

[Other Downloads](#) | [Changelog](#) | [API Docs](#) [Other Downloads](#) | [Changelog](#) | [API Docs](#)

Or have a look at the [Long Term Support \(LTS\) schedule](#).



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Newman

พิมพ์คำสั่งใน command line เพื่อติดตั้ง newman

```
npm install -g newman
```

คำสั่ง run newman

```
newman run (ที่อยู่ของไฟล์)/shopping_cart_success.json -e (ที่อยู่ของไฟล์)/  
local_environment.json
```

อ่านต่อ : <https://www.npmjs.com/package/newman>



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Result

```
→ shopping-cart git:(master) make run_newman
newman run atdd/api/shopping_cart_success.json -e atdd/api/environment/local_environment.json -d atdd/api/data/shopping_cart_success.json
newman

shopping cart success

→ submit order
POST http://localhost:8000/api/v1/order [200 OK, 167B, 71ms]
✓ Status code is 200
✓ OrderId is existed
✓ Total price 14.95

→ confirm payment
POST http://localhost:8000/api/v1/confirmPayment [200 OK, 145B, 11ms]
✓ Status code is 200
1. notify_message วันเวลาที่ชำระเงิน 1/3/2563 13:30:00 หมายเลขคำสั่งซื้อ 8004359103 คุณสามารถติดตามลิ้นค่าพานของทาง Kerry ด้วยหมายเลข 1785261900
```

| | executed | failed |
|------------------------|---|--------|
| iterations | 1 | 0 |
| requests | 2 | 0 |
| test-scripts | 2 | 0 |
| prerequest-scripts | 0 | 0 |
| assertions | 5 | 1 |
| total run duration: | 165ms | |
| total data received: | 66B (approx) | |
| average response time: | 41ms [min: 11ms, max: 71ms, s.d.: 30ms] | |

```
# failure detail
1. AssertionError
    notify_message วันเวลาที่ชำระเงิน 1/3/2563 13:30:00 หมายเลขคำสั่งซื้อ 8004359103 คุณสามารถติดตามลิ้นค่าพานของทาง
    Kerry ด้วยหมายเลข 1785261900
    expected '' to deeply equal 'วันเวลาที่ชำระเงิน 1/3/2563 13:30:00 หมายเลขคำสั่งซื้อ 8004359103
    คุณสามารถติดตามลิ้นค่าพานของทาง Kerry ด้วยหมายเลข 1785261900'
    at assertion:1 in test-script
    inside "confirm payment"
make: *** [run_newman] Error 1
```

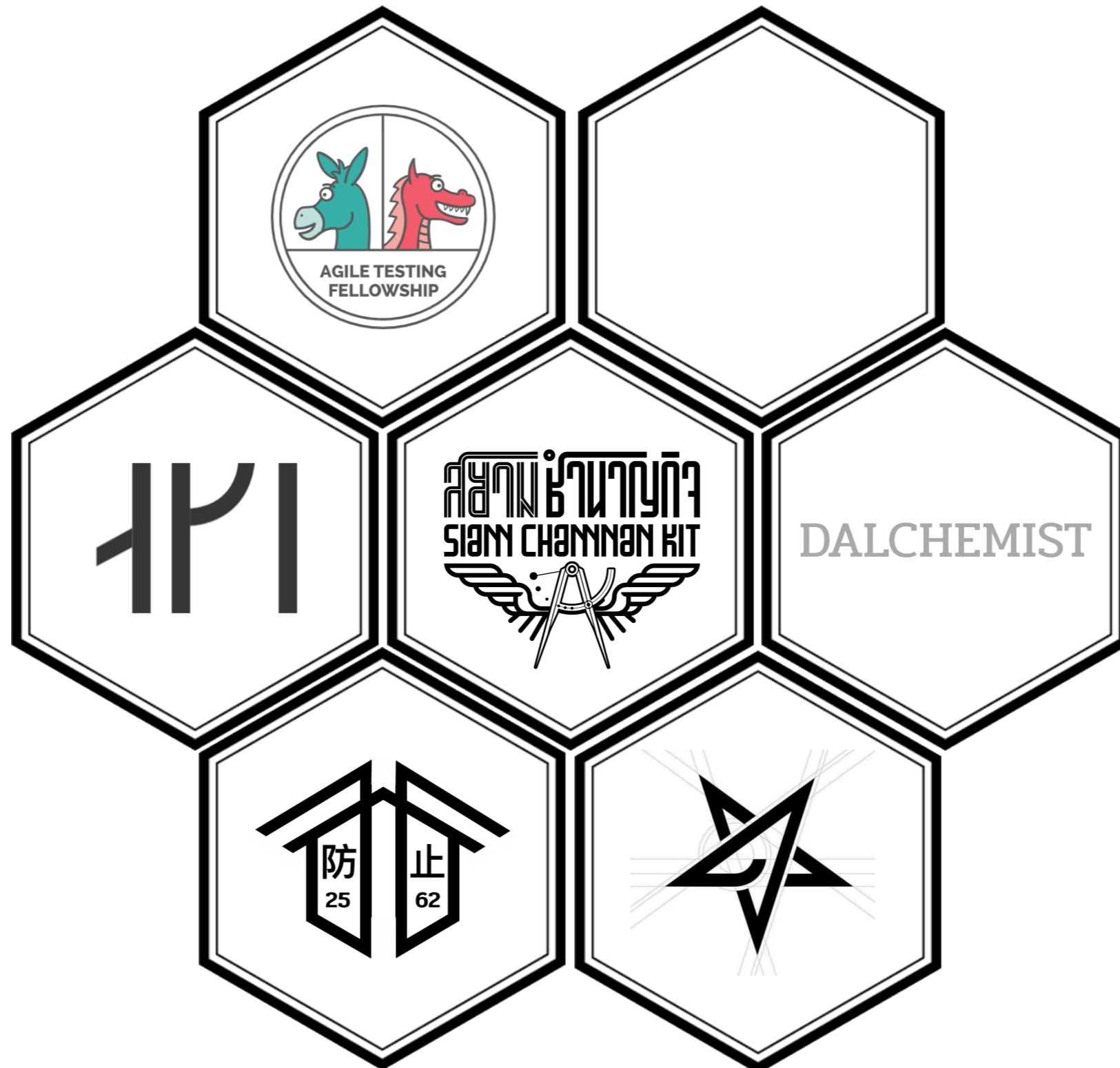


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