สยามชำนาญกิจ
SIAM CHAMNAN KIT

REST APIs Development

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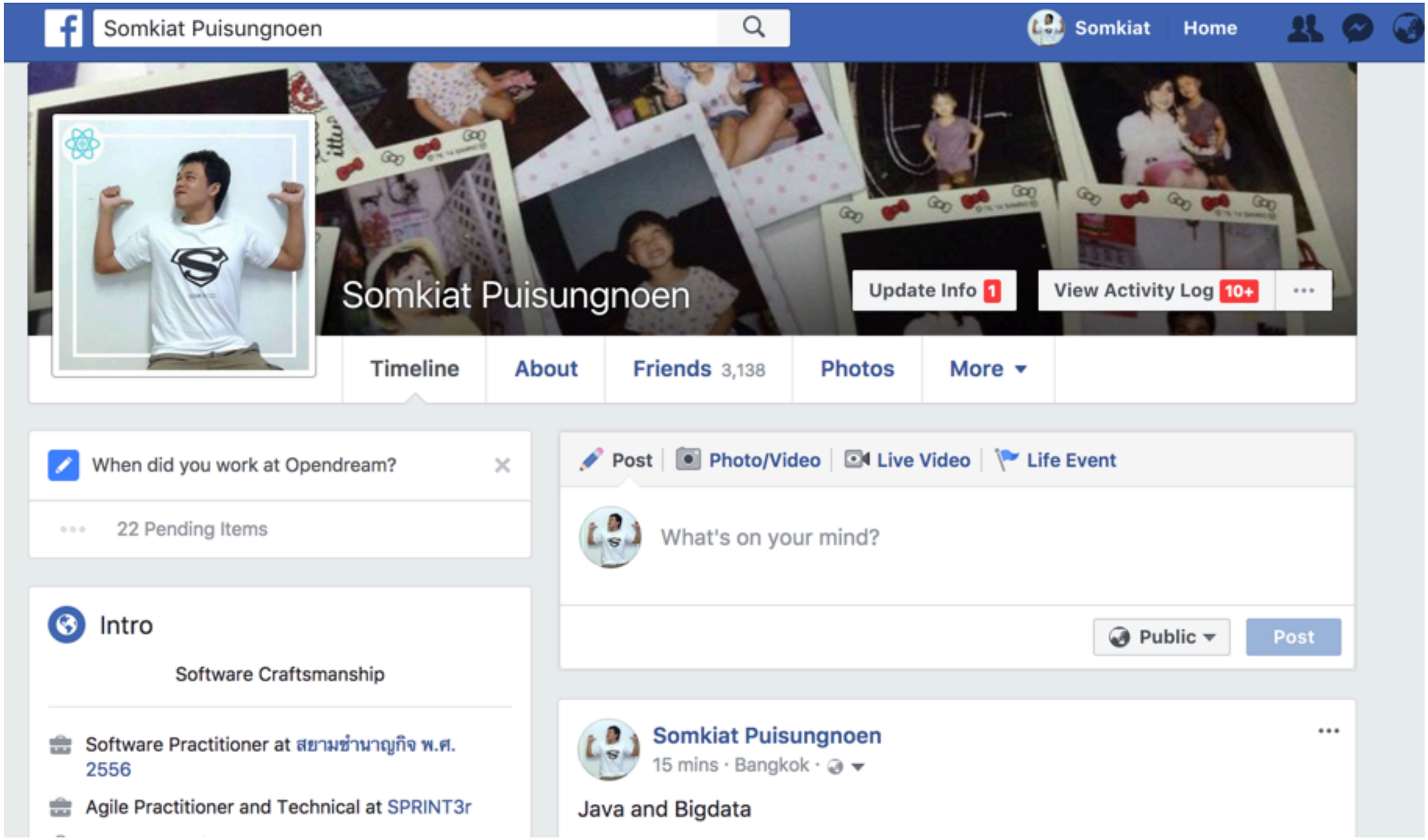

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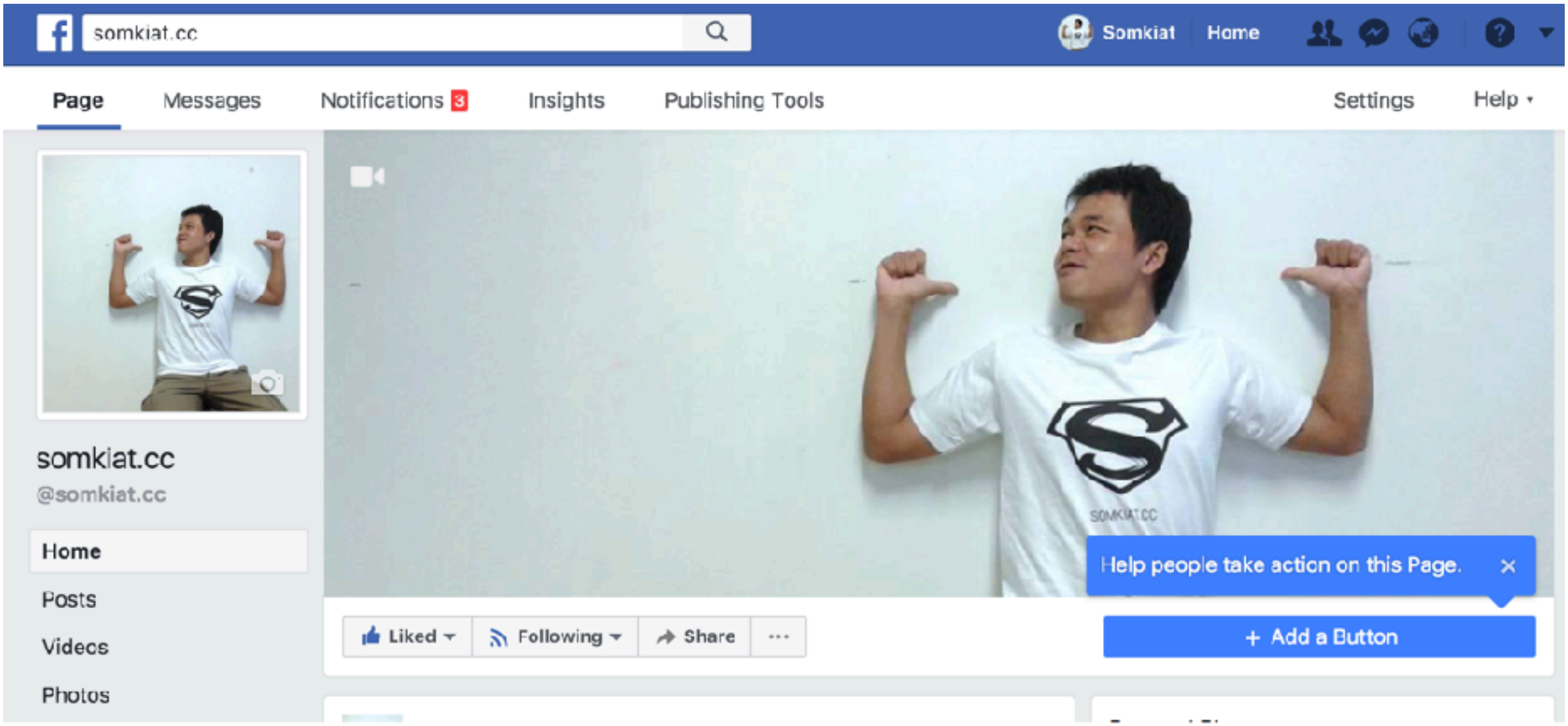

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Writing REST APIs with Node.js

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1. Use HTTP Methods for APIs

Operation	HTTP Method
Create	POST
Read	GET
Update	PUT
Delete	DELETE

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2. API Routes

Alway use **Noun** as resource identifier

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2. API Routes

Alway use **Noun** as resource identifier

Operation	HTTP Method	Routing
Create	POST PUT	/user /user/1
Read	GET	/user /user/1
Update	PATCH	/user/1
Delete	DELETE	/user/1

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3. Use HTTP Status Code

HTTP Status Code	Description
2xx	Everything is OK
3xx	Resource was moved
4xx	Request can’t fulfilled because of a client error
5xx	Something wrong in the API side

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4. Use HTTP Header to send metadata

Authentication

Pagination

Rate limiting

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5. Choose the right framework

express

Feathers

restify

koa

next generation web framework for node.js

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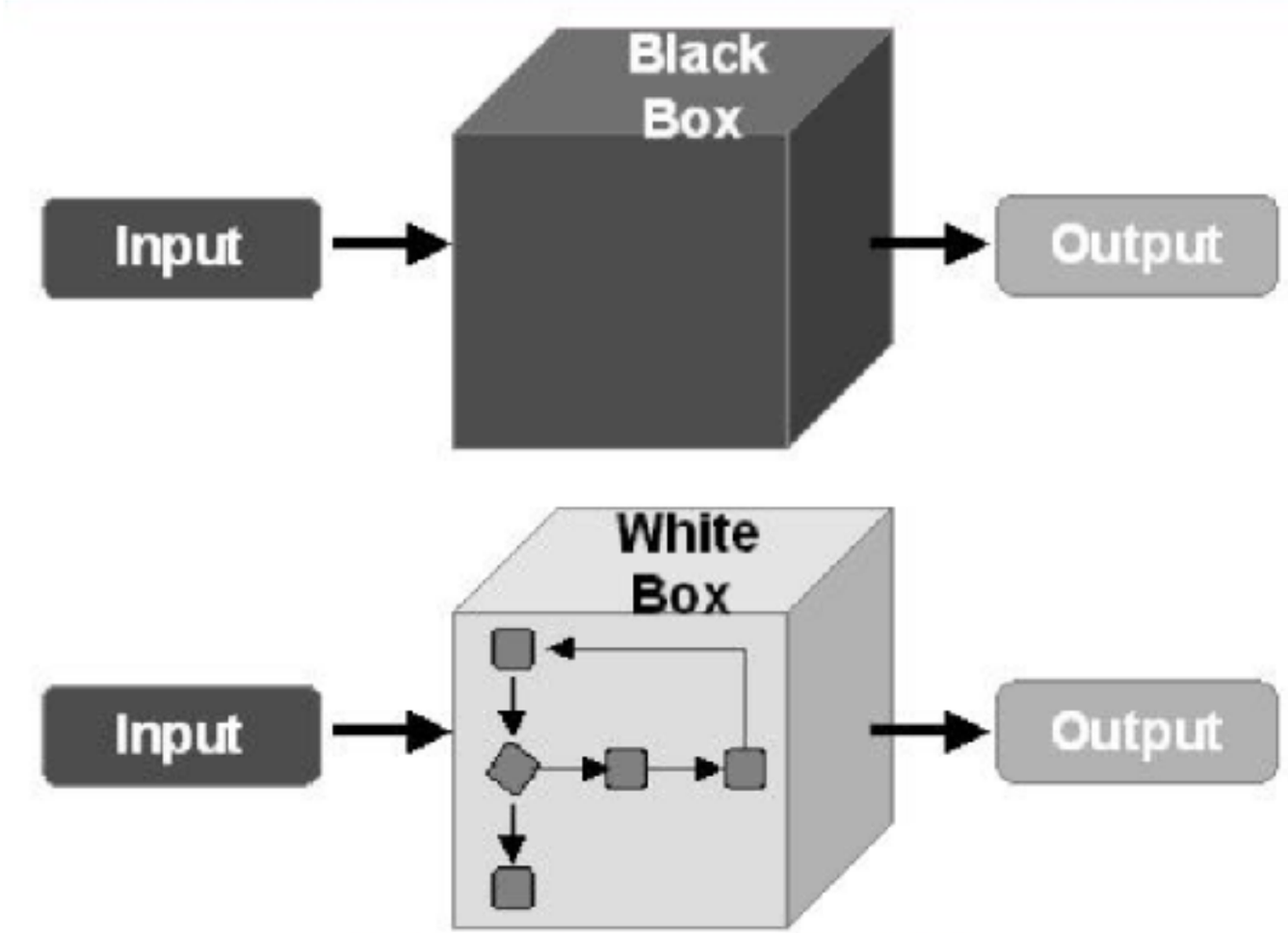
6. Testing for REST APIs



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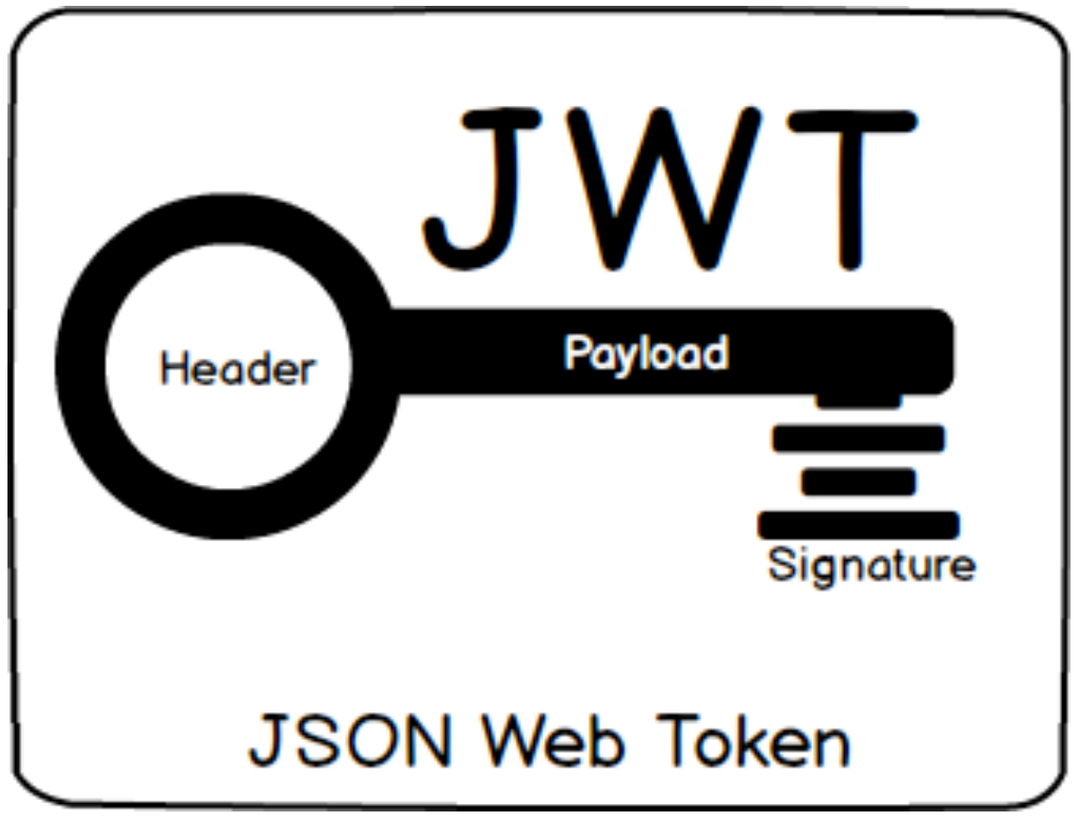
7. Authentication

Stateless such as JWT (JSON Web Token)



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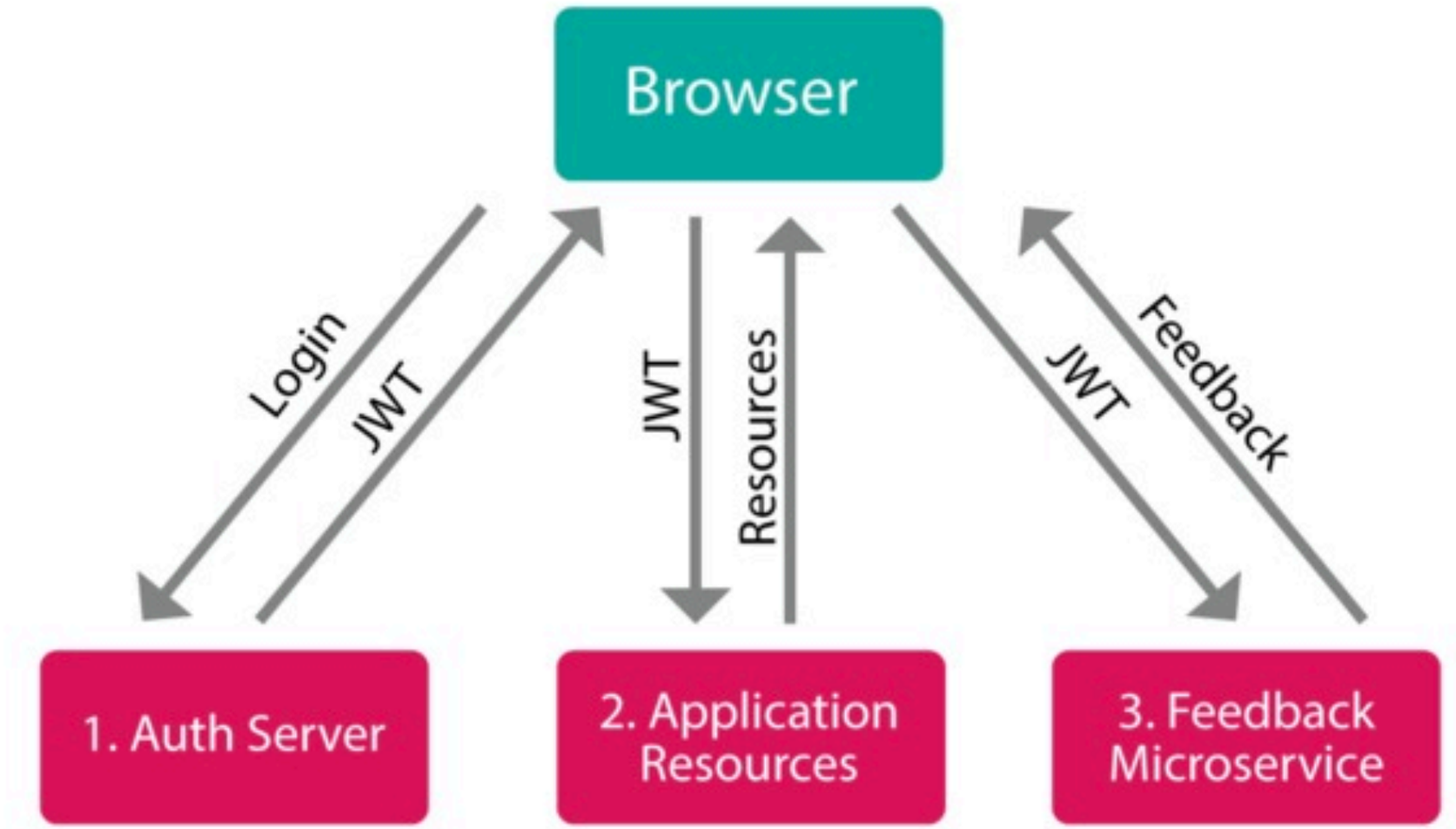
Flow of JWT



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8. Rate Limiting

Use to control how many requests a given consumer can send to the API

HTTP Header Name	Description
X-Rate-Limit-Limit	# of requests allowed in a given time interval
X-Rate-Limit-Remaining	# of requests remaining in the same interval
X-Rate-Limit-Reset	the time when the rate limit will be reset

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9. API Documentation

Swagger, API Blueprint

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More ...

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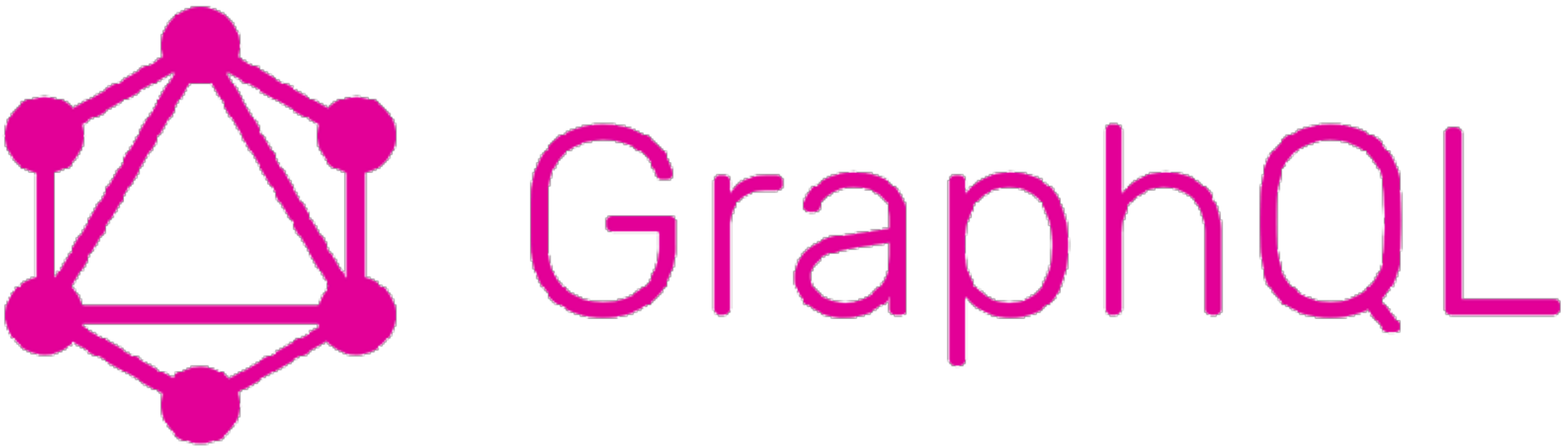

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Why we need to test ?

Help you to catch bugs
Develop features faster
Enforce modularity of your project

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But,
It’s take time to learning and practice !!

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Goals

How to **THINK** when and where you should test

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Type of testing

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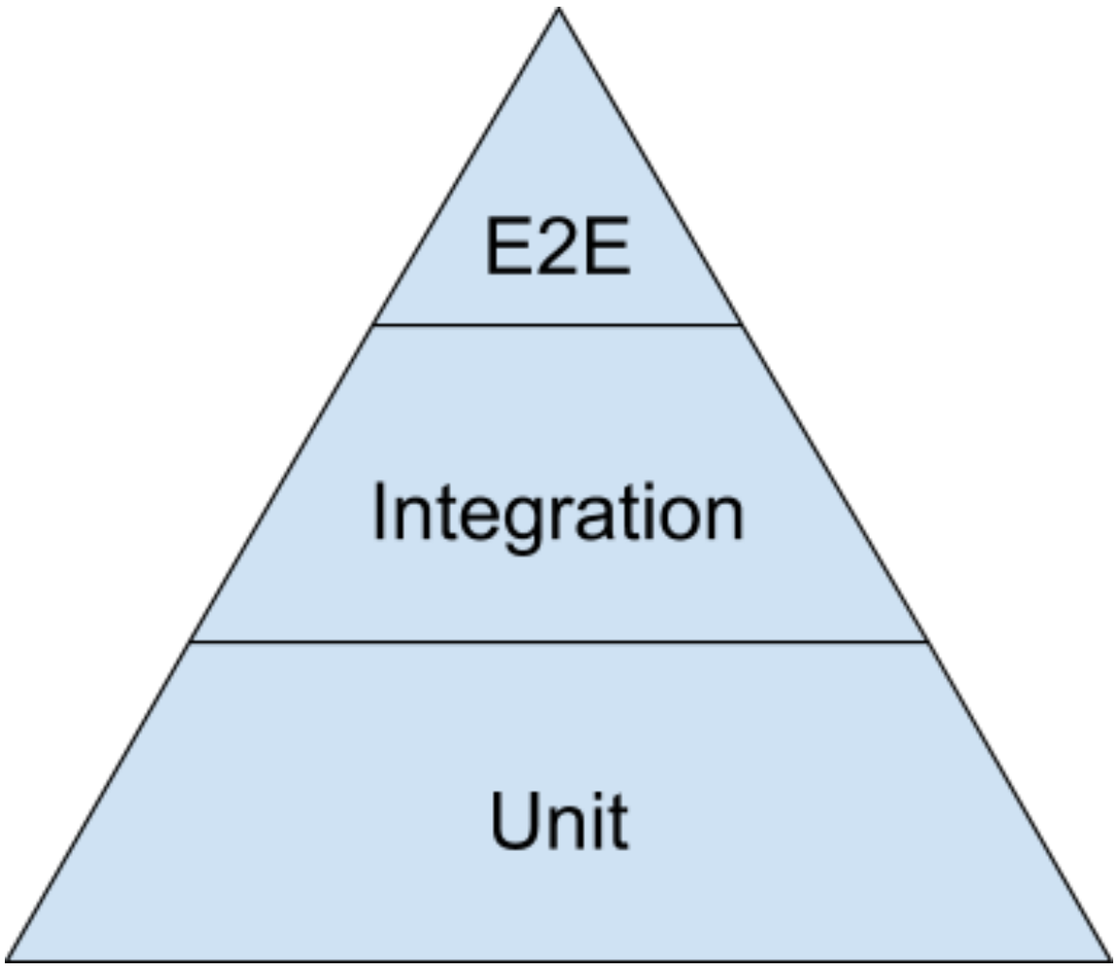
Testing Pyramid



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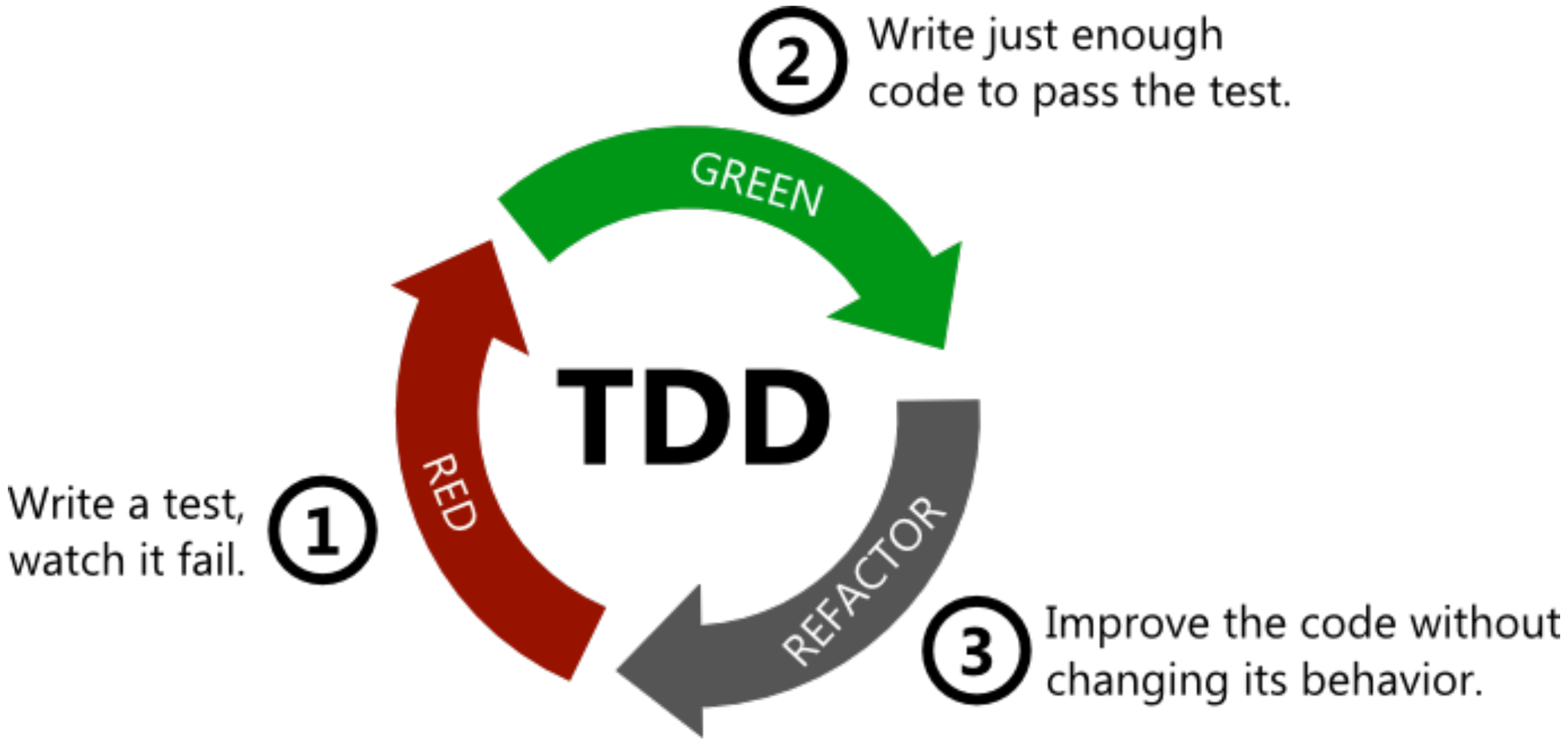
Test-Driven Development



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Workshop

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