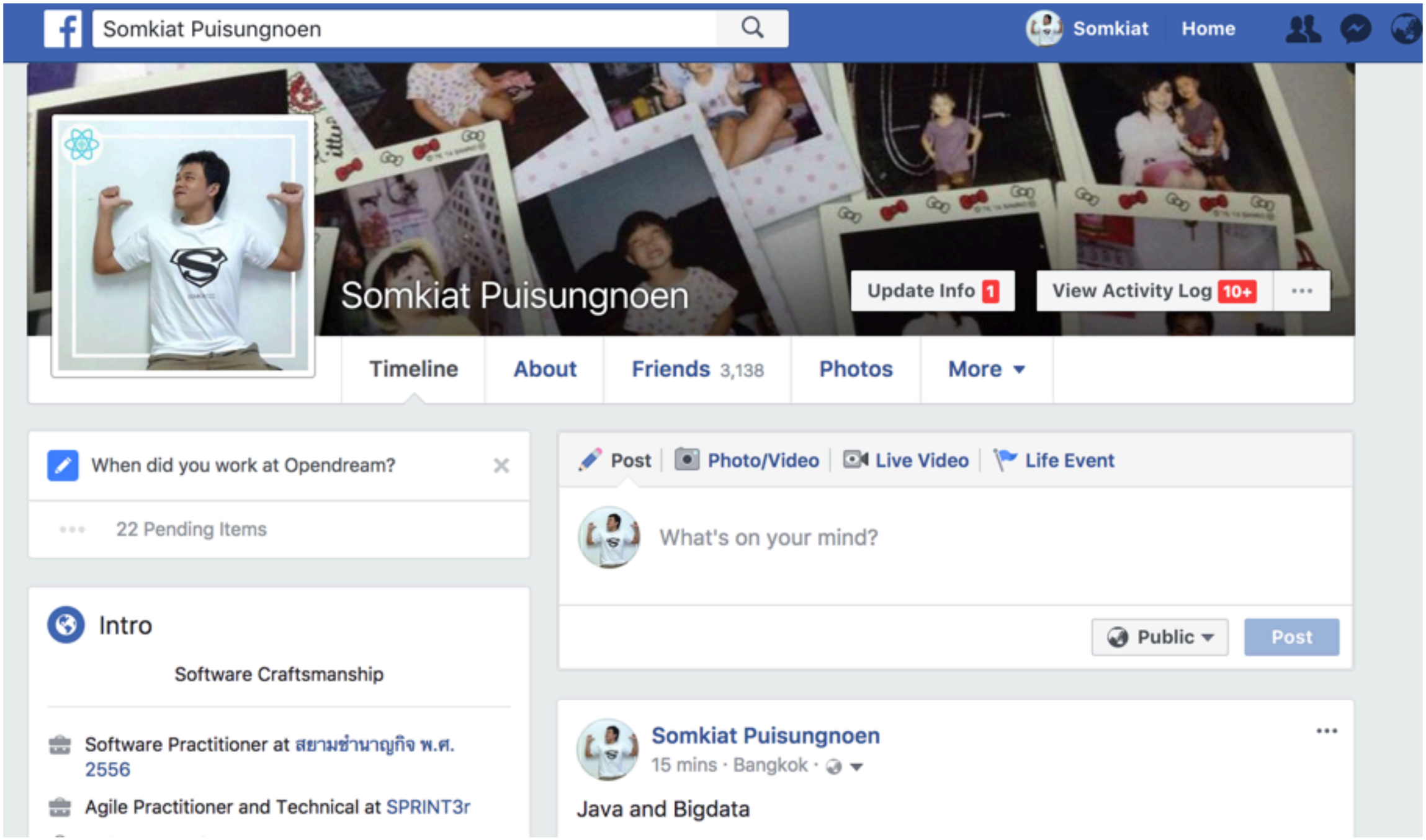
สยามชำนาญกิจ
SIAM CHAMNAN KIT

How to test APIs with Postman

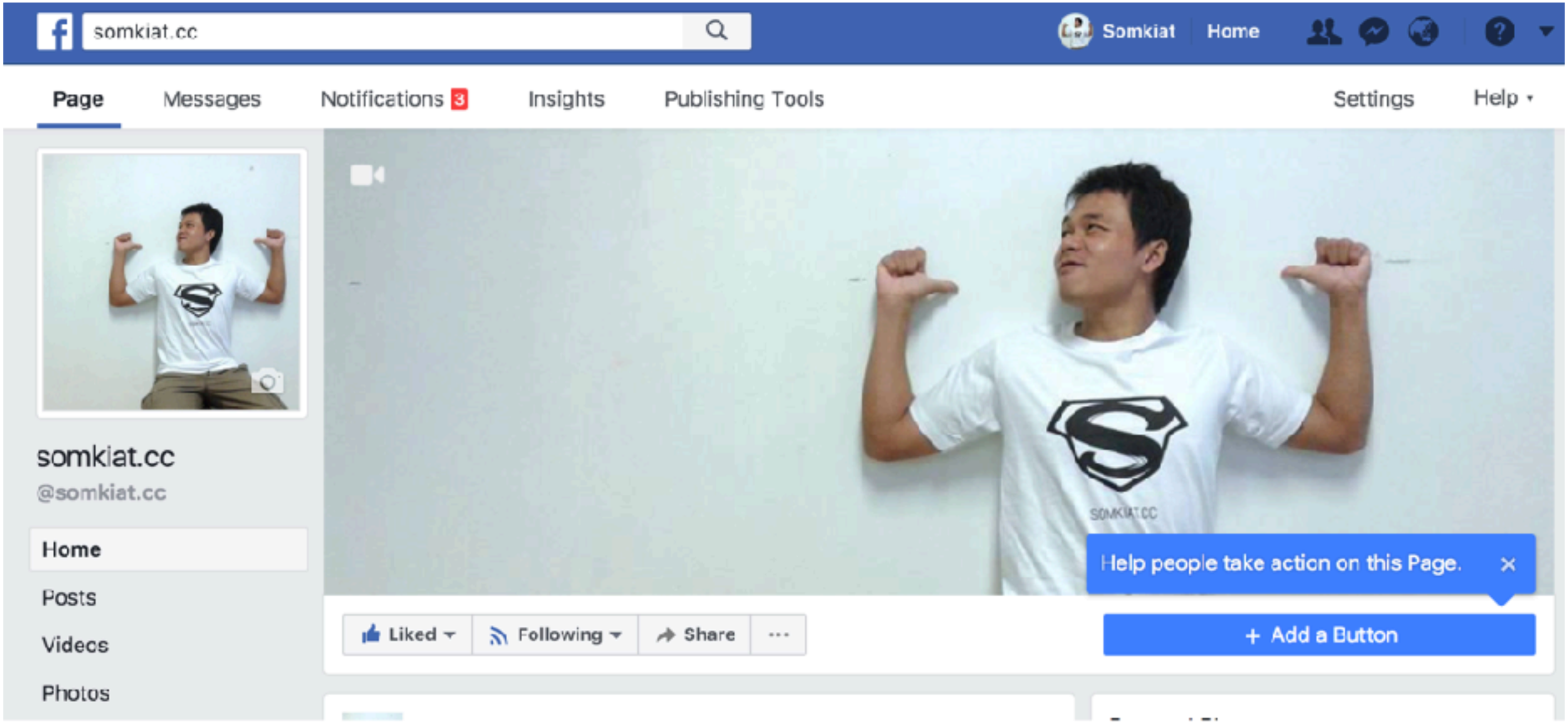
Postman in the right way

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.



© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.



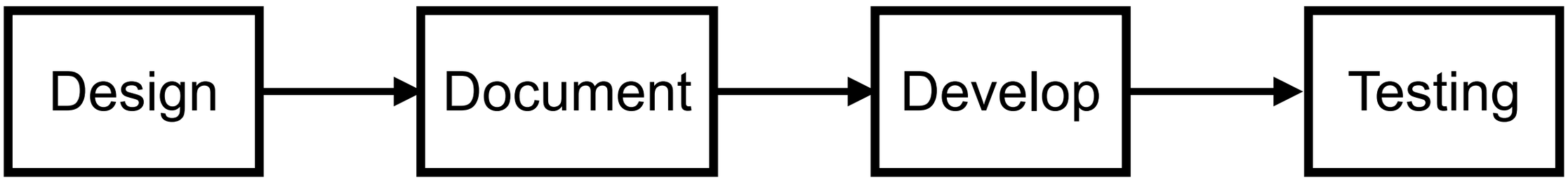
© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Postman in the right way

https://github.com/up1/workshop-postman

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Software Delivery Process

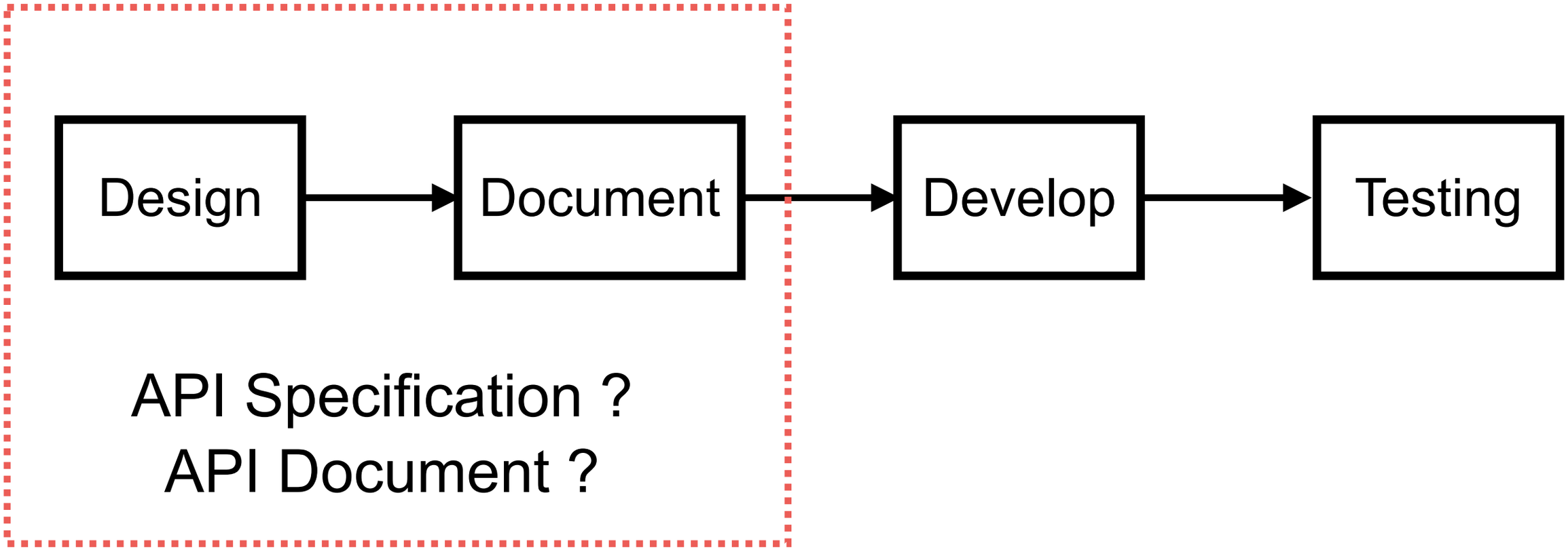


© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

API Development

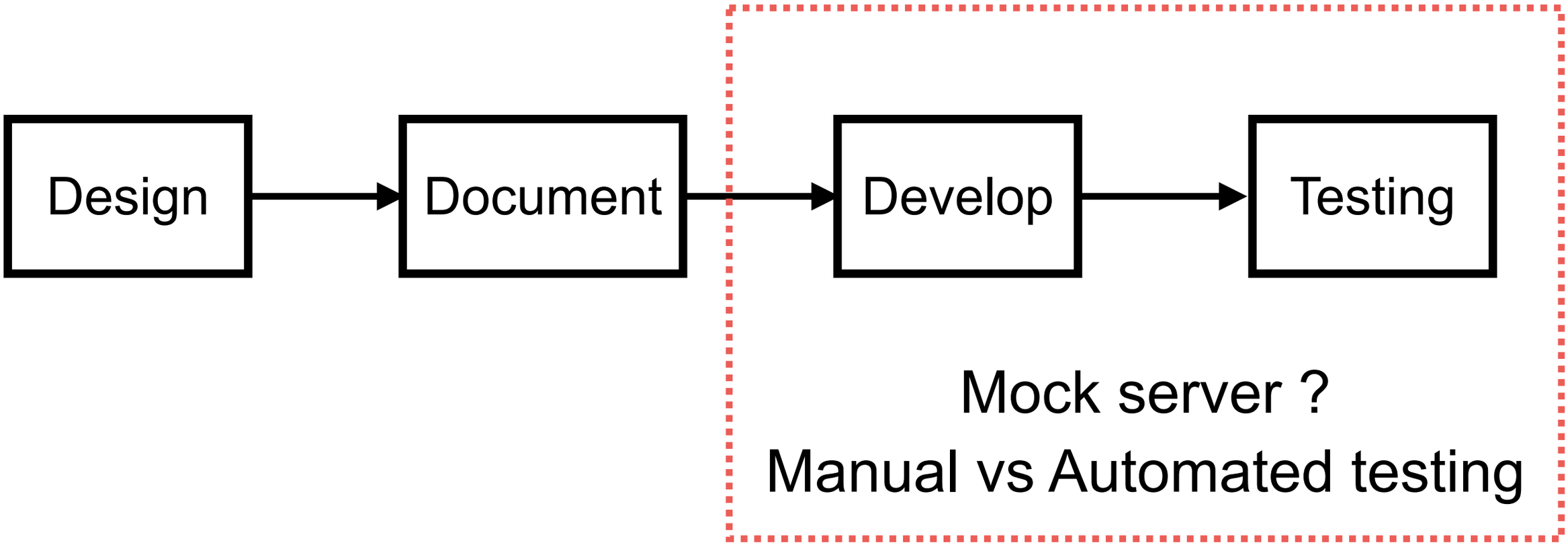
© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

APIs



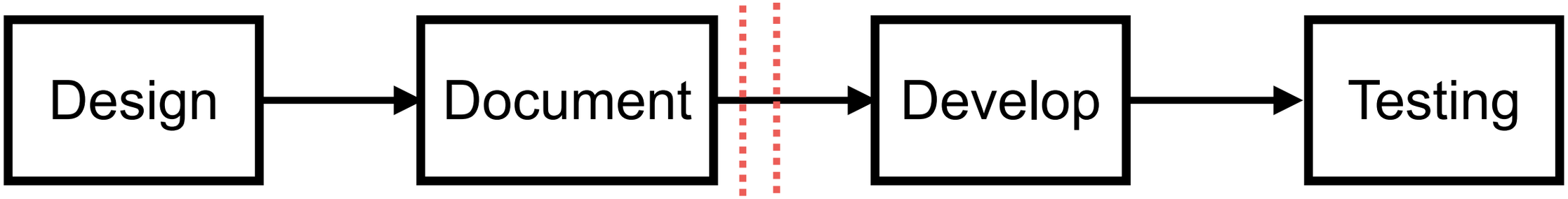
© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

APIs



© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Working with Postman



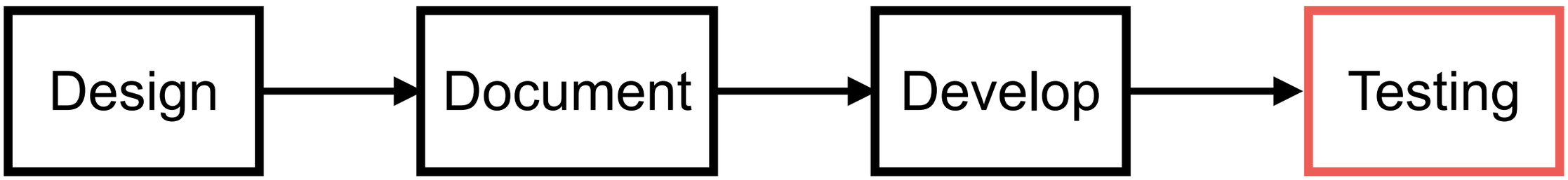
API Specification ?
API Document ?

Mock server ?
Manual vs Automated testing

POSTMAN

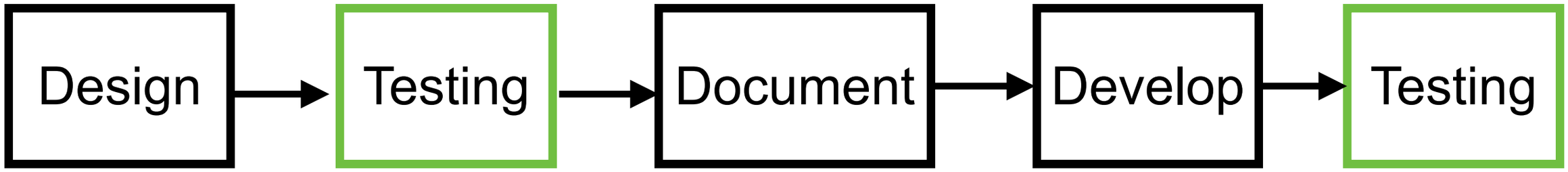
© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

ทำก่อนคิด (ทดสอบอย่างไร)



© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

คิดก่อนทำ

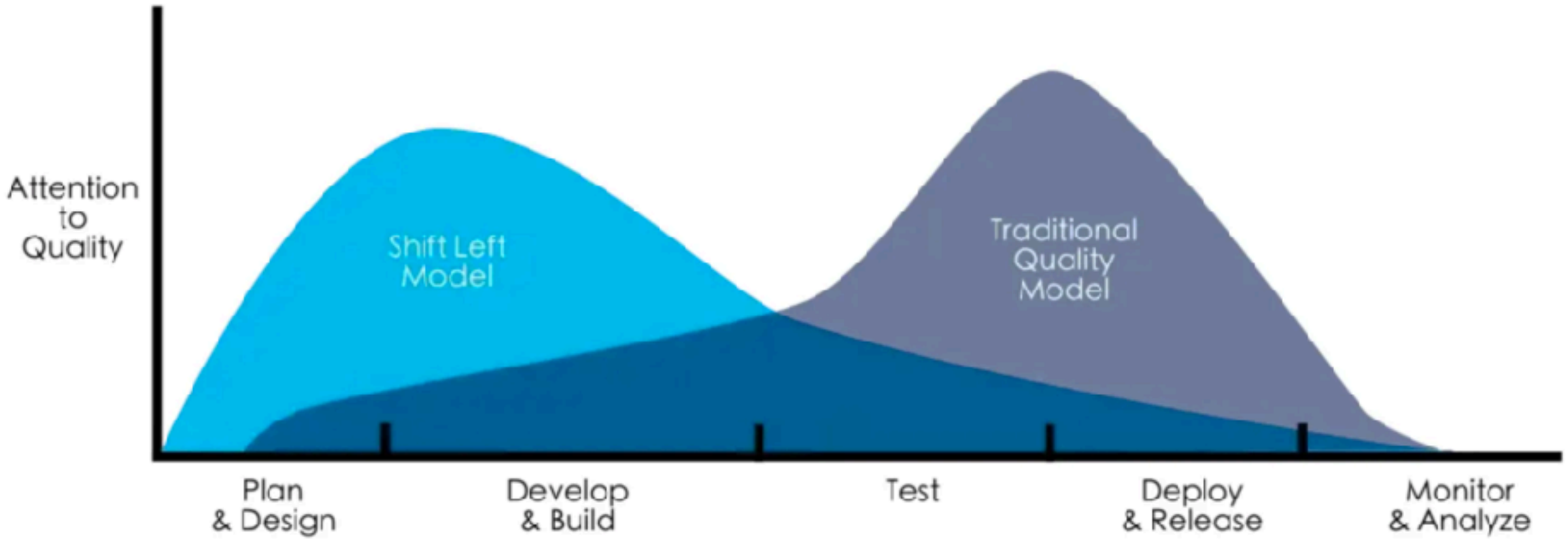


Why and What to test ?

Validation
Verification

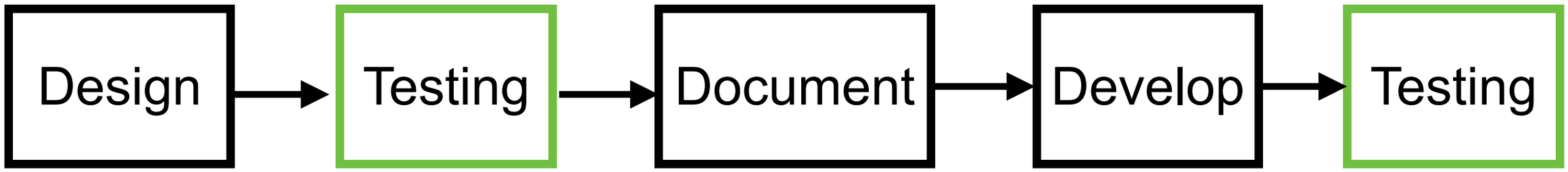
© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

คิดก่อนทำ



© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

High Quality



Validation
Verification

Why and What to test ?

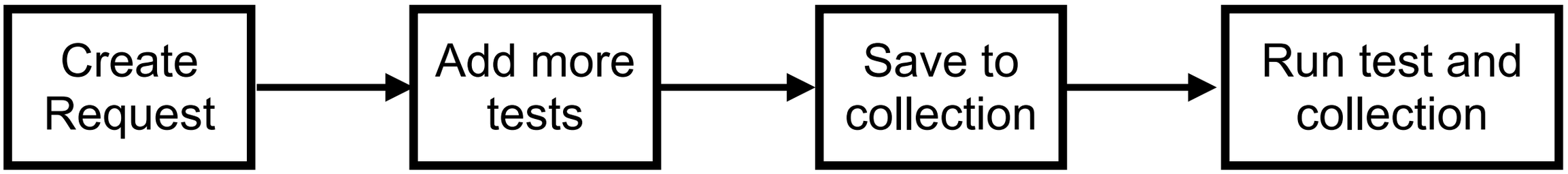
POSTMAN

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Demo time

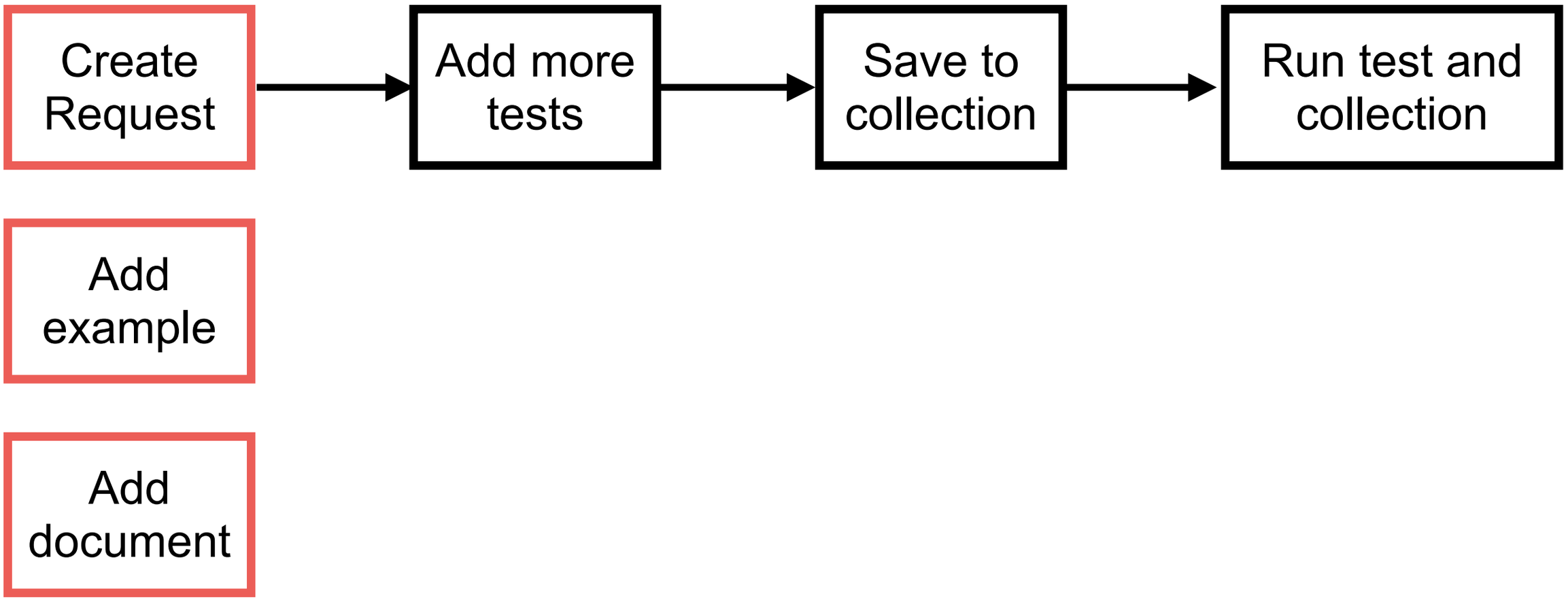
© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Simple Process



© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Design first with Postman



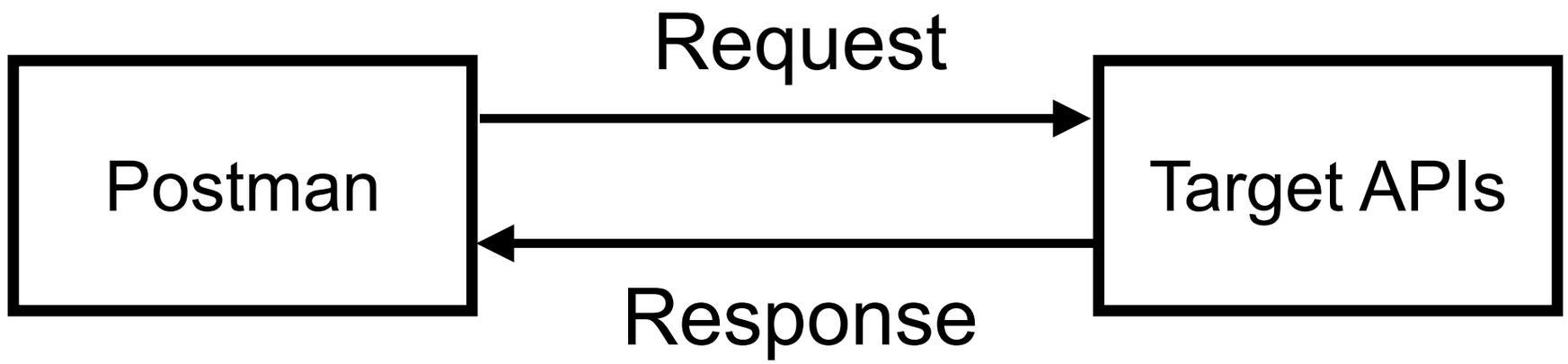
© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Add more tests !!

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Why and What to test ?

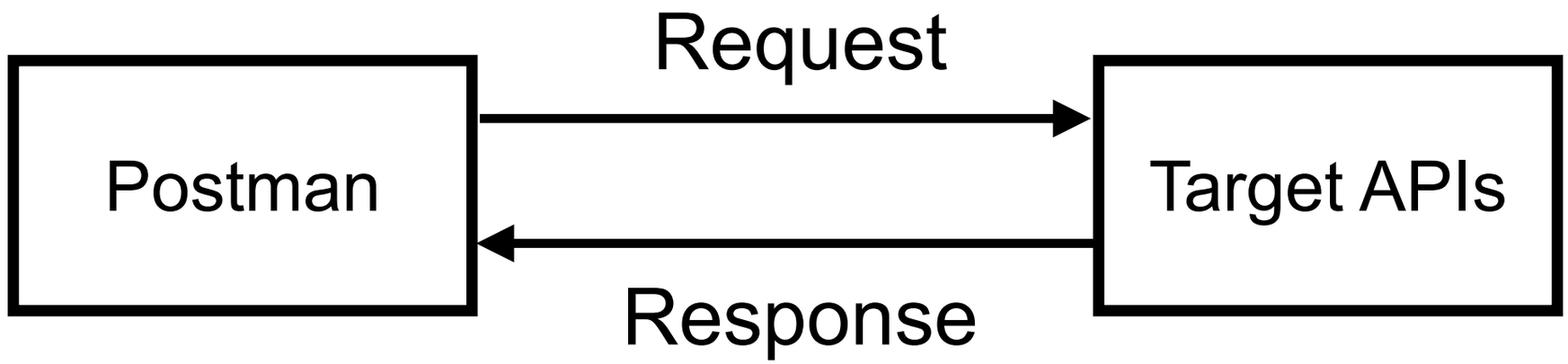
Thinking about testing (API)



© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Why and What to test ?

Thinking about testing (API)



Status code	Response time	Response body	Response schema

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Add test cases
in request and collections

JavaScript

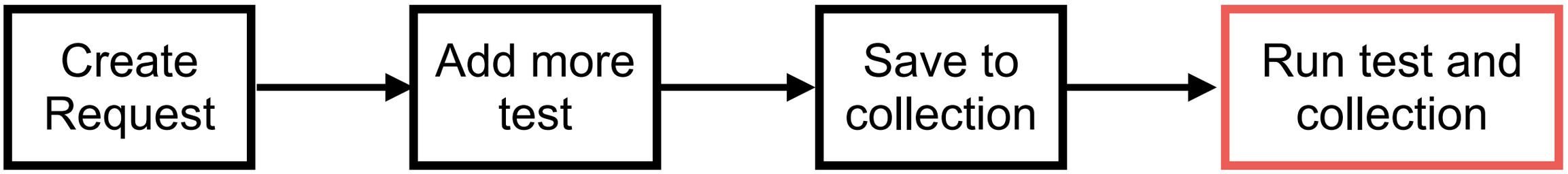
https://learning.postman.com/docs/writing-scripts/test-scripts/

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Automation process with Postman

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Testing process ?



© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Testing with Postman

Collection runner

Postman CLI

Newman CLI

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Newman CLI

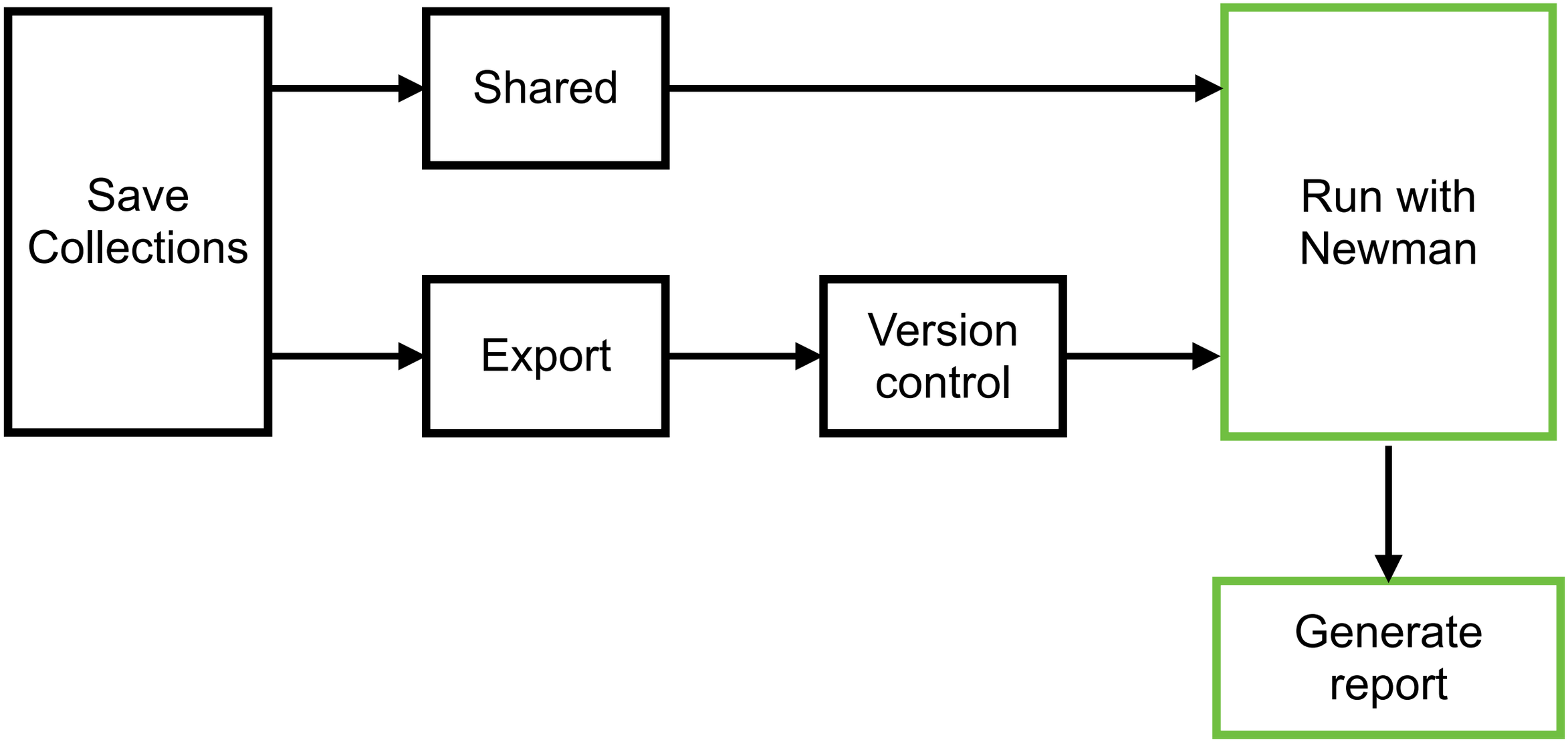
Send request and receive response
Run collections in command line
Integrate with CI/CD tools

$npm install -g newman

https://github.com/postmanlabs/newman

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Working with Newman



© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

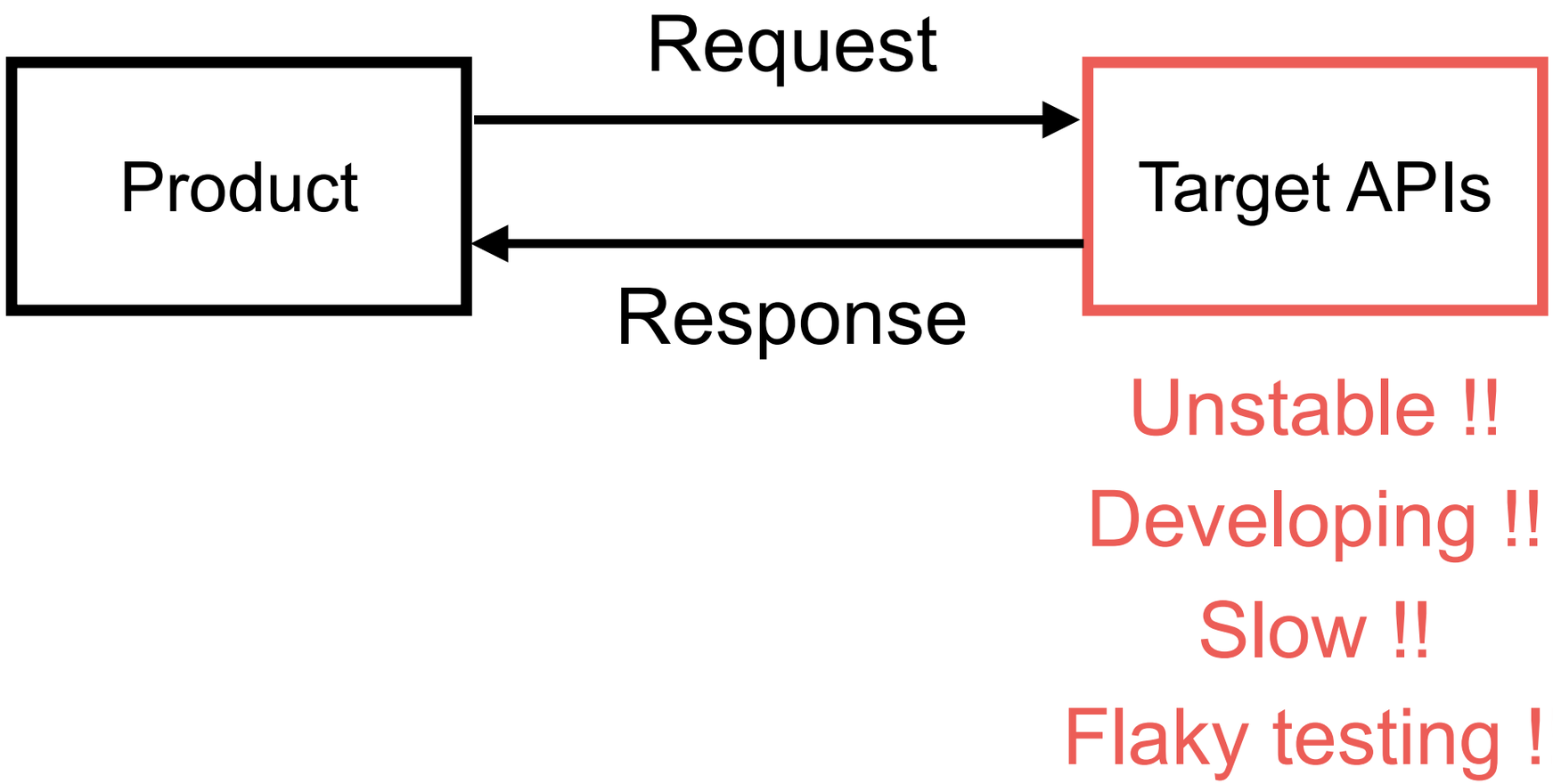
Demo time

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Mock Server

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

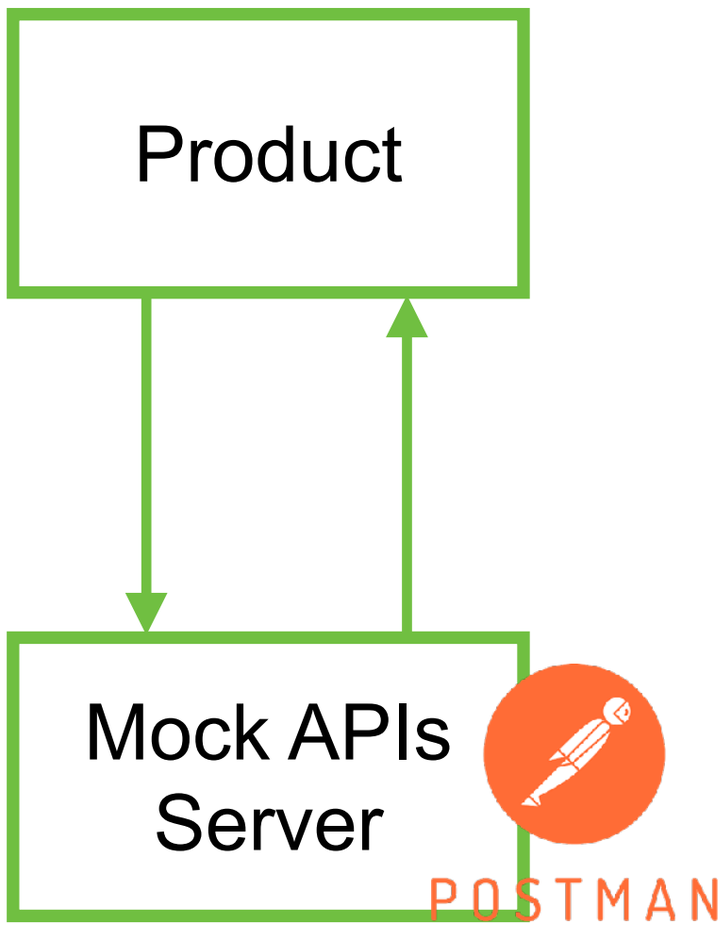
Problems ?



https://learning.postman.com/docs/designing-and-developing-your-api/mocking-data/setting-up-mock/

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Mock Server with Postman



Target APIs

Unstable !!

Developing !!

Slow !!

Flaky testing !!

https://learning.postman.com/docs/designing-and-developing-your-api/mocking-data/setting-up-mock/

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Demo time

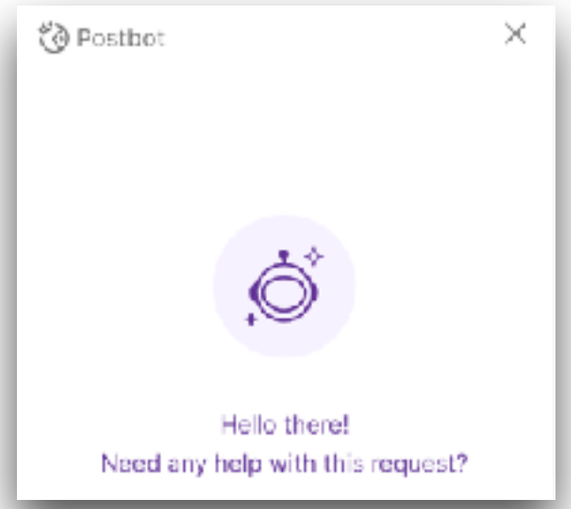
© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

More features

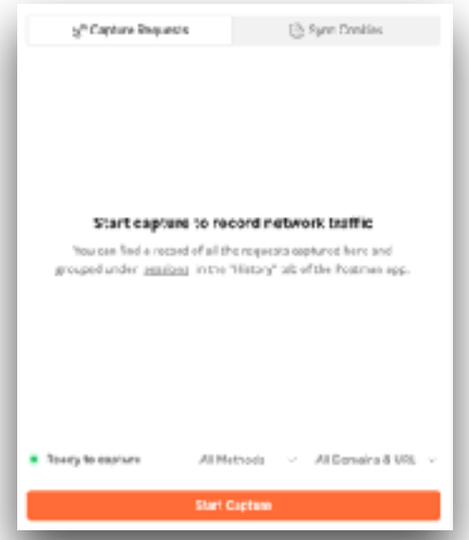
POSTMAN

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

More features

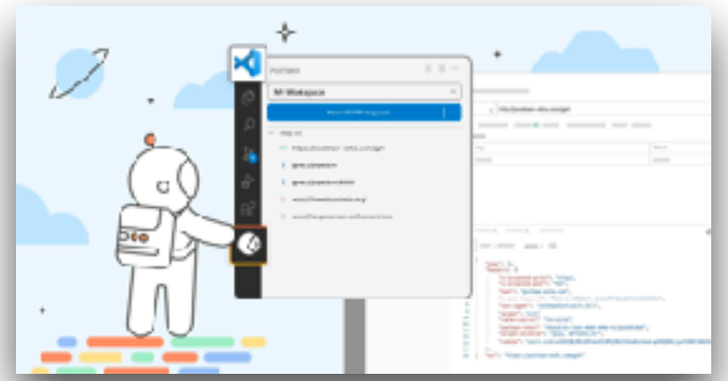


AI assistant for API testing



Postman interceptor

Working with OpenAPI/Swagger



Postman extension in VSCode

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Summary

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Better delivery process

Think about testing
Fast feedback
High quality
Working as a team

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.

Q/A

https://www.facebook.com/beSkilledSoftwareTester

© 2013 - 2023 Siam Chamnankit Company Limited. All rights reserved.