Automation Testing

API Chaining

A Day in the Life of an Automation Testing Engineer

John has to perform scenario-based testing for APIs. To achieve that, he has to do API Chaining.

He wants to implement API Chaining because it will help him check and validate the functionality of the API completely and not test only the individual endpoints.

After this lesson, John can perform API Chaining for scenario-based testing in which one API uses another API response data.

Learning Objectives

By the end of this lesson, you will be able to:

- Define API Chaining
- Explain the uses of API Chaining
- List the steps to perform API Chaining

Introduction to API Chaining

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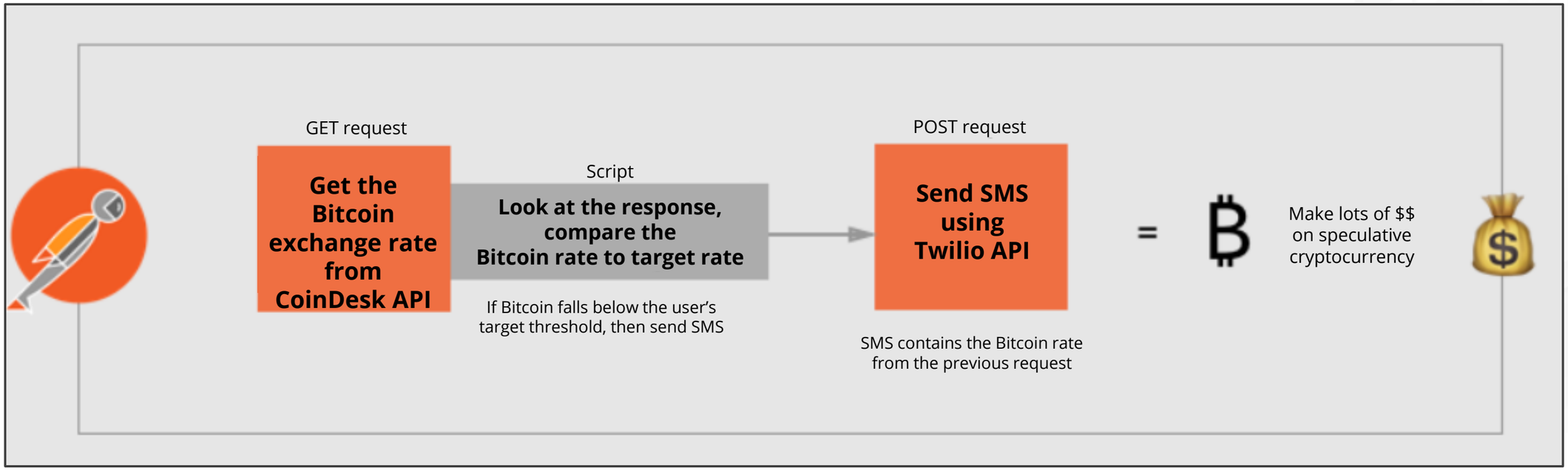
API Chaining happens when an API request header or body uses another API response or part of the response.



Source: https://blog.postman.com/wp-content/uploads/2018/03/bitcoinz.png

Introduction to API Chaining

Postman can make many API queries to carry out a certain task, each of which feeds the requests that come after it. This process is known as the chaining of the API requests. Here are some features of API Chaining:

- Users may build a workflow that sends a request to any API using a REST API client
- API chaining supports conditional calls and only returns the information users require
- The ability to make several calls simultaneously and only receive the data that users requested can also be used as a data collecting method

Uses of API Chaining

Test APIs (end-to-end) scenario

Example: Airlines ticket booking system

Test authentication token-based APIs

Example: JWT token and OAuth

Assistance in negative testing for authentication-related scenarios

Example: Non-admin authorization token will not work in admin APIs

Key Takeaways

- API Chaining is an essential concept for day-to-day API testing.
- API Chaining allows end-to-end scenario-based API testing in Postman.
- Test scripts help handle dynamic variables or extract tokens from previous requests.