# API Testing Test Strategy

## Document Purpose

The purpose of this document is to outline the test strategy for automating the testing of API endpoints. This document describes the scope, approach of testing and the tools used for the automation.

Automating the testing of the API endpoints will help us to validate the technical requirements and maintain the functionality of the endpoints.

## Test Scope

The scope for this Test Strategy is the functional testing of  [Fake API - Mock API](https://app.beeceptor.com/mock-server/fake-json-api) endpoints. The ‘Fake API – Mock API’ library consists of 7 GET request endpoints. Each endpoint will be tested to validate its technical requirements.

## Test Approach

To validate that the endpoints are functional and meet the technical requirements, the following items will be covered by our automated tests:

1. API Response  
   We need to validate that the correct response code is returned, and that the endpoint is functioning as desired
2. API body  
   Each endpoint will be tested to validate that the correct properties and data types are returned
3. API Response time  
   Each endpoint will be tested for its response time to validate that the response is received in a reasonable time after sending the request.

## Test tools and Software

To perform the automation testing of API endpoints, the framework Jmeter will be used. The test scripts will be written using the Groovy language.