

# Test Plan: Skyscanner Flights Live Prices API

## 1. Introduction:

This test plan outlines the approach, objectives, and scope of testing for the Skyscanner Flights Live Prices API. Testing aims to ensure that the API functions correctly, provides accurate flight pricing information, and handles various scenarios appropriately.

## 2. Objectives:

- Verify the accuracy and reliability of live flight prices returned by the API.
- Validate the functionality of different parameters and options supported by the API.
- Ensure proper error handling and response status codes.
- Assess the performance and responsiveness of the API under different load conditions.

## 3. Scope:

- Testing will focus on the Flights Live Prices API provided by Skyscanner.
- Test cases will cover various scenarios related to querying flight prices for different routes, dates, and other optional parameters.
- Performance testing will evaluate the API's response time and throughput under normal and peak load conditions.

## 4. Test Environment:

- The testing environment will consist of:
  - Development or staging environment provided by Skyscanner for API testing.
  - Postman for manual API testing.
  - Python with PyTest for automated testing.

## 5. Test Cases:

- Positive Test Cases:
- Negative Test Cases:

- Boundary Test Cases:
- Performance Test.

## 6. Test Execution:

- Test cases will be executed manually using Postman and automated using Python.
- Test data will be generated dynamically for automated tests, covering a range of scenarios.
- Performance testing will be conducted using tools like Locust if required.

## 7. Reporting:

- Test results will be documented in test reports, including details of executed test cases, observed outcomes, and any issues encountered.
- Performance test results will include response time, throughput, and error rates.

## 8. Risks and Mitigation:

- Risks include API endpoints or behavior changes, unexpected downtime, and performance bottlenecks.

## 9. Conclusion:

The test plan aims to ensure the quality and reliability of the Skyscanner Flights Live Prices API by thoroughly testing its functionality, performance, and resilience.