# **Restful Booker API Testing**

* Raxit Sharma 06/08/2025

# 

## **📌 Project Overview**

This project demonstrates **API testing automation** using the Restful Booker API.  
 The tests cover **authentication, booking management, CRUD operations, and scripted assertions**.

Automation is achieved using **JavaScript scripts (for dynamic token regeneration, booking ID handling, and test validations)**, executed via **Newman**, and integrated with **Jenkins** for CI/CD. Reports are generated in **JUnit XML** format for easy Jenkins integration.

## **API Endpoints Covered**

### **Auth**

* **CreateToken** → Creates a new auth token for access to PUT/DELETE requests  
   POST /auth

### **Booking**

* **GetBookingIds** → Returns all booking IDs (with optional query parameters)  
   GET /booking
* **GetBooking** → Returns a specific booking by ID  
   GET /booking/:id
* **CreateBooking** → Creates a new booking in the system  
   POST /booking
* **UpdateBooking** → Updates an existing booking  
   PUT /booking/:id
* **PartialUpdateBooking** → Updates booking with partial payload  
   PATCH /booking/:id
* **DeleteBooking** → Deletes a booking (requires auth token or Basic Auth)  
   DELETE /booking/:id

## **Automation Features**

* **Pre-request Scripts**
  + Auto-generate new token for every request
  + Insert dynamic booking ID into requests
* **Test Scripts (Assertions)**
  + Validate **status codes**
  + Verify **response times**
  + Check **response body values**
  + Ensure **schema/data correctness**
* **Newman Execution**
  + Run tests via command line
  + Generate JUnit XML reports
* **Jenkins Integration**
  + Automated test execution after every build
  + JUnit reports integrated into Jenkins build results

## **Running the Tests**

### **Run with Newman**

newman run "https://api.getpostman.com/collections/44003382-5bda8896-dbf8-490c-b18b-153762cb38d2?access\_key=PMAT-01K3K0YM50REHNND83MGVYAB5Y" ^

--reporters cli,junit ^

--reporter-junit-export "newman-report.xml"

### **Run via Jenkins**

* Jenkins executes the **Newman command** in the pipeline.
* JUnit XML reports are published and visible in Jenkins.

## **Reports**

* **JUnit XML Reports** → Integrated with Jenkins for pass/fail test summary and detailed results

