

# Test Plan: Restful-Booker API

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## 1. Introduction

This document describes the test objectives, scope and strategy for testing Restful-Booker APIs.

The purpose of this test plan is to ensure that the APIs function correctly, handle invalid inputs, and support end-to-end booking workflows.

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## 2. Objectives

- Validate API responses, status codes, and data integrity
  - Validate the core business flow of the application through end-to-end API testing
  - Ensure APIs handle invalid and edge-case scenarios.
  - Use API Chaining to simulate real-user flows.
  - Automate regression testing using Postman Runner and Rest Assured.
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## 3. Scope

### 3.1 In Scope

- Authentication Module
- Booking Management Module

### 3.2 Out of Scope

- UI Testing
  - Performance Testing
  - Security Testing
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## 4. Test Strategy

- API testing will be performed using **Postman** for manual and collection-based testing
  - Automation will be implemented for core regression flows using Rest Assured
  - End-to-end business flows will be validated using API chaining
  - Dynamic data (token and bookingId) will be generated and reused across dependent APIs
  - Both positive and negative scenarios will be covered for each API
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## 5. Test Types

- Positive testing
  - Negative testing
  - Edge case testing
  - End-to-end API flow testing
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## 6. Test Environment

| Item                 | Details   |
|----------------------|---|
| Base URL             | <a href="https://restful-booker.herokuapp.com">https://restful-booker.herokuapp.com</a> |
| Test Tool            | Postman   |
| Automation Tool      | Rest Assured  |
| Programming Language | Java  |
| Build Tool           | Maven   |
| Version Control      | GitHub  |

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## 7. Entry Criteria

- API documentation is available

- Required tools are installed and configured
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## 8. Exit Criteria

- All planned test cases are executed
  - Core business flows are validated
  - Critical defects are identified and documented
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## 9. Test Deliverables

- API Flow & Dependency Sheet
- Test case Sheet
- Postman collection and environment
- Automation scripts (Rest Assured)
- Test execution summary