**Test Plan for Restful-Booker API**

**1. Objective**

The objective is to validate that the **Restful-Booker API** meets functional, regression, integration, and negative test coverage for booking management. Ensure APIs follow expected request/response formats, authentication mechanisms, and error handling.

**2. Scope**

* **In Scope**:
  + Authentication (Create Token)
  + Booking CRUD (Create, Read, Update, Delete)
  + Partial Updates (PATCH)
  + Ping health check
* **Out of Scope**:
  + UI-based testing
  + Performance/load testing (covered in non-functional scope separately)

**3. Approach**

* **Test Techniques**:
  + Functional testing
  + Boundary value analysis
  + Negative testing
  + Regression testing
  + Integration testing
* **Test Tools**:
  + Postman / Newman for API test execution
  + JMeter (optional) for performance
  + GitHub Actions or Jenkins for automation pipeline

**4. Entry/Exit Criteria**

* **Entry**:
  + API deployed and accessible at given endpoint
  + Test data prepared
* **Exit**:
  + 100% execution of planned test cases
  + No open critical/blocker defects

**5. Deliverables**

* Test Plan
* Test Cases (Postman collection or Excel sheet)
* Test Execution Report

**6. Roles & Responsibilities**

* QA Team: Test case design, execution, defect reporting
* Dev Team: Fix defects
* Automation Team: API test automation