Test Plan for Restful Booker API

# 1. Introduction

This Test Plan covers the functional, boundary, and negative test cases for the Restful Booker API. The API includes authentication, booking management (Create, Get, Update, Delete, Partial Update), and health check endpoints.

# 2. Scope

The purpose of this testing effort is to validate that all endpoints work as expected, including correct handling of valid and invalid data, proper authorization, and response validation.

# 3. API Endpoints

## Auth - CreateToken

Method: POST  
URL: https://restful-booker.herokuapp.com/auth  
Description: Creates a new auth token for access to PUT and DELETE endpoints.

## Booking - GetBookingIds

Method: GET  
URL: https://restful-booker.herokuapp.com/booking  
Description: Fetches all booking IDs or filtered IDs based on query parameters.

## Booking - GetBooking

Method: GET  
URL: https://restful-booker.herokuapp.com/booking/:id  
Description: Fetches a specific booking by ID.

## Booking - CreateBooking

Method: POST  
URL: https://restful-booker.herokuapp.com/booking  
Description: Creates a new booking with customer details.

## Booking - UpdateBooking

Method: PUT  
URL: https://restful-booker.herokuapp.com/booking/:id  
Description: Updates an existing booking completely.

## Booking - PartialUpdateBooking

Method: PATCH  
URL: https://restful-booker.herokuapp.com/booking/:id  
Description: Partially updates an existing booking.

## Booking - DeleteBooking

Method: DELETE  
URL: https://restful-booker.herokuapp.com/booking/:id  
Description: Deletes a booking using ID and auth token.

## Ping - HealthCheck

Method: GET  
URL: https://restful-booker.herokuapp.com/ping  
Description: Checks if the API is up and running.

# 4. Test Strategy

Testing will include positive, negative, boundary, and security scenarios. Character set testing will include ASCII, Unicode, Arabic, and special symbols. Each endpoint will be tested individually with all possible combinations.

# 5. Deliverables

- Detailed test cases in Excel.  
- Postman collection with separate requests per test case.  
- Test Plan Document (.docx).