**API Testing Project - RestFul Booker API Testing**

**Project Overview**

This project involves testing the RestFul Booker API, simulating real-world testing scenarios using various HTTP request methods (GET, POST, PUT, PATCH, DELETE). The API is used to manage bookings, create tokens, and authenticate users, among other functions.

**API Endpoints Tested**

1. **Auth - CreateToken (POST)**

* **Purpose**: Creates a token for authenticating subsequent API requests.
* **Test Asserti:**
* **Status code is 200.**
* **Request Body**

{

"username": "admin",

"password": "password123"

}

1. **Booking - GetBookingIds (GET)**

* **Purpose:** Retrieves a list of all booking IDs.
* **Test Assertions:**

Verifies that the response contains a bookingid property.

* **Request**:

No request body; simply makes a GET request to /booking.

1. **Booking - GetBooking (GET)**

* **Purpose**: Retrieves a booking by its ID.
* **Test Assertions:**

Verifies that the response contains the firstname property.

Logs the response data for further inspection.

* **Request**:

Endpoint: /booking/:id

1. **Booking - CreateBooking (POST)**

* **Purpose**: Creates a new booking.
* **Test Assertions:**

Verifies that the Content-Type header of the response contains application/json.

* **Request Body**:

**{**

**"firstname": "karishma",**

**"lastname": "Yadav",**

**"totalprice": 140,**

**"depositpaid": true,**

**"bookingdates": {**

**"checkin": "2024-11-10",**

**"checkout": "2024-11-27"**

**},**

**"additionalneeds": "Lunch"**

**}**

1. **Booking - UpdateBooking (PUT)**

* **Purpose:** Updates an existing booking.
* **Test Assertions**: No specific assertions, but typically, you would check the response for confirmation.
* **Request Body:**

{

"firstname": "Riya",

"lastname": "Yadav",

"totalprice": 143,

"depositpaid": true,

"bookingdates": {

"checkin": "2024-01-01",

"checkout": "2024-08-11"

},

"additionalneeds": "Breakfast"

}

1. **Booking - PartialUpdateBooking (PATCH)**

* **Purpose**: Partially updates a booking.
* **Test Assertions**:

Verifies that the Content-Type header contains application/json.

* **Request Body**:

**{**

**"firstname": "James",**

**"lastname": "Brown"**

**}**

1. **Booking - DeleteBooking (DELETE)**

* **Purpose**:
* **Test Assertions**:
* **Request**:

Endpoint: /booking/:id

**Environment Variables**

* **RestfulBooker\_baseURL**: The base URL for the RestFul Booker API used in this project is:

**"RestfulBooker\_baseURL":** <https://restful-booker.herokuapp.com>

**Test Scripts**

Each of the requests in this collection includes associated tests to validate the response:

* **Status code validation**: Verifies if the response status is 200.
* **Response body validation**: Checks if specific properties exist in the response body
* **Content-Type validation**: Ensures the response has the correct content type (application/json).

**Tools Used**

* **Postman**: Used for creating, sending requests, and validating responses.
* **Postman Scripts**: JavaScript used within Postman to validate response status, body content, and headers.
* **API Authentication**: Basic authentication was used for some of the endpoints (e.g., Booking - GetBooking).