RESTful Booker API

The **RESTful Booker API** is a sample API used to practice REST API testing with operations like creating, retrieving, updating, and deleting hotel bookings.

✅ 1. Authentication (Auth)

🔐 Create Token

Purpose: Get a token to access protected endpoints like **PUT** and **DELETE** booking.

- **Endpoint:** POST https://restful-booker.herokuapp.com/auth

- **Headers:**
  Content-Type: application/json

- **Body:**

  ```
  {
    "username": "admin",
    "password": "password123"
  }
  ```

- **Success Response:**

  ```
  {
    "token": "abc123"
  }
  ```

Use this token in a cookie/header for secured operations like update or delete.

📘 2. Booking Operations

🆔 Get All Booking IDs

Purpose: Get a list of all existing booking IDs.

- **Endpoint:** GET https://restful-booker.herokuapp.com/booking

- **Optional Filters:**

  o firstname

  o lastname

  o checkin (format: YYYY-MM-DD)

  o checkout (format: YYYY-MM-DD)

- **Response Example:**

```
[
  { "bookingid": 1 },
  { "bookingid": 2 }
]
```

🔍 Get Booking by ID

Purpose: Fetch full details of a booking by ID.

- **Endpoint:** GET https://restful-booker.herokuapp.com/booking/{id}

- **Headers:**
  Accept: application/json

- **Response Example:**

```
{
  "firstname": "Sally",
  "lastname": "Brown",
  "totalprice": 111,
  "depositpaid": true,
  "bookingdates": {
    "checkin": "2013-02-23",
    "checkout": "2014-10-23"
  },
  "additionalneeds": "Breakfast"
}
```

🆕 Create Booking

Purpose: Add a new booking.

- **Endpoint:** POST https://restful-booker.herokuapp.com/booking

- **Headers:**
  - Content-Type: application/json
  - Accept: application/json

- **Body Example:**

```
{
  "firstname": "Jim",
  "lastname": "Brown",
  "totalprice": 111,
  "depositpaid": true,
  "bookingdates": {
    "checkin": "2018-01-01",
    "checkout": "2019-01-01"
  },
  "additionalneeds": "Breakfast"
}
```

- **Response Example:**

```
{
  "bookingid": 1,
  "booking": {
    ...
  }
}
```

🔁 Update Booking (Full)

Purpose: Replace the full booking details.

- **Endpoint:** PUT https://restful-booker.herokuapp.com/booking/{id}
- **Headers:**
  - Content-Type: application/json
  - Accept: application/json
  - Cookie: token=abc123 *(or use Authorization header)*
- **Body:** Same structure as **Create Booking**
- **Success Response:** Updated booking JSON

✏️ **Partial Update Booking**

Purpose: Update only some fields of a booking.

- **Endpoint:** PATCH https://restful-booker.herokuapp.com/booking/{id}

- **Headers:** Same as PUT

- **Body Example:**

        {

         "firstname": "James",

         "lastname": "Brown"

        }

- **Response:** Updated fields + existing booking data

❌ **Delete Booking**

Purpose: Delete a booking by ID.

- **Endpoint:** DELETE https://restful-booker.herokuapp.com/booking/{id}

- **Headers:**

    o   Cookie: token=abc123 or

    o   Authorization: Basic YWRtaW46cGFzc3dvcmQxMjM=

- **Response:**

        HTTP/1.1 201 Created

💡 **Quick Tips**

- Always authenticate before **updating** or **deleting** bookings.

- Use tools like **Postman** to test endpoints.

- Format dates as YYYY-MM-DD.