# restful-booker

List of function:

1. Auth - CreateToken
2. Booking - GetBookingIds
3. Booking - GetBooking
4. Booking - CreateBooking
5. Booking - UpdateBooking
6. Booking - PartialUpdateBooking
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**1. Auth - CreateToken**

Creates a new auth token to use for access to the **PUT** and **DELETE** /booking

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

*{*

*"username" : "admin",*

*"password" : "password123"*

*}*

## **Header**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Content-Type **required** | string | Sets the format of payload you are sending  Default value: application/json |

## **Request body**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| username **required** | String | Username for authentication  Default value: admin |
| password **required** | String | Password for authentication  Default value: password123 |

## **Success 200**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| token | String | Token to use in future requests |

* Response:

HTTP/1.1 200 OK

*{*

*"token": "abc123"*

*}*

**2. All Booking - GetBookingIds**

Returns the ids of all the bookings that exist within the API. Can take optional query strings to search and return a subset of booking ids.

GET: <https://restful-booker.herokuapp.com/booking>

## 

## **Success 200**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| object | object[] | Array of objects that contain unique booking IDs |
| bookingid | number | ID of a specific booking that matches search criteria |

* Response:

**HTTP/1.1 200 OK**

[

{

"bookingid": 1

},

{

"bookingid": 2

},

{

"bookingid": 3

},

{

"bookingid": 4

}

]

**3. A Booking - GetBooking**

Returns a specific booking based upon the booking id provided

**GET**: <https://restful-booker.herokuapp.com/booking/id>

## **Header**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Accept **required** | string | Sets what format the response body is returned in. Can be application/json or application/xml  Default value: application/json |

## **Url Parameter**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| id | String | The id of the booking you would like to retrieve |

## **Success 200**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| firstname | String | Firstname for the guest who made the booking |
| lastname | String | Lastname for the guest who made the booking |
| totalprice | Number | The total price for the booking |
| depositpaid | Boolean | Whether the deposit has been paid or not |
| bookingdates | Object | Sub-object that contains the checkin and checkout dates |
| checkin | Date | Date the guest is checking in |
| checkout | Date | Date the guest is checking out |
| additionalneeds | String | Any other needs the guest has |

* Response:

**HTTP/1.1 200 OK**

{

"firstname": "Sally",

"lastname": "Brown",

"totalprice": 111,

"depositpaid": true,

"bookingdates": {

"checkin": "2013-02-23",

"checkout": "2014-10-23"

},

"additionalneeds": "Breakfast"

}

**4. Booking - CreateBooking**

Creates a new booking in the API

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

{

"firstname" : "Jim",

"lastname" : "Brown",

"totalprice" : 111,

"depositpaid" : true,

"bookingdates" : {

"checkin" : "2018-01-01",

"checkout" : "2019-01-01"

},

"additionalneeds" : "Breakfast"

}

## **Header**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Content-Type **required** | string | Sets the format of payload you are sending. Can be application/json or text/xml  Default value: application/json |
| Accept **required** | string | Sets what format the response body is returned in. Can be application/json or application/xml  Default value: application/json |

## **Request body**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| firstname **required** | String | Firstname for the guest who made the booking |
| lastname **required** | String | Lastname for the guest who made the booking |
| totalprice **required** | Number | The total price for the booking |
| depositpaid **required** | Boolean | Whether the deposit has been paid or not |
| checkin **required** | Date | Date the guest is checking in |
| checkout **required** | Date | Date the guest is checking out |
| additionalneeds **optional** | String | Any other needs the guest has |

## **Success 200**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| bookingid | Number | ID for newly created booking |
| booking | Object | Object that contains |
| firstname | String | Firstname for the guest who made the booking |
| lastname | String | Lastname for the guest who made the booking |
| totalprice | Number | The total price for the booking |
| depositpaid | Boolean | Whether the deposit has been paid or not |
| bookingdates | Object | Sub-object that contains the checkin and checkout dates |
| checkin | Date | Date the guest is checking in |
| checkout | Date | Date the guest is checking out |
| additionalneeds | String | Any other needs the guest has |

* Response:

**HTTP/1.1 200 OK**

{

"bookingid": 1,

"booking": {

"firstname": "Jim",

"lastname": "Brown",

"totalprice": 111,

"depositpaid": true,

"bookingdates": {

"checkin": "2018-01-01",

"checkout": "2019-01-01"

},

"additionalneeds": "Breakfast"

}

}

**5. Booking - UpdateBooking**

Updates a current booking

PUT: <https://restful-booker.herokuapp.com/booking/id>

{

"firstname" : "James",

"lastname" : "Brown",

"totalprice" : 111,

"depositpaid" : true,

"bookingdates" : {

"checkin" : "2018-01-01",

"checkout" : "2019-01-01"

},

"additionalneeds" : "Breakfast"

}

## **Header**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Content-Type **required** | string | Sets the format of payload you are sending. Can be application/json or text/xml  Default value: application/json |
| Accept **required** | string | Sets what format the response body is returned in. Can be application/json or application/xml  Default value: application/json |
| Cookie **required** | string | Sets an authorisation token to access the PUT endpoint, can be used as an alternative to the Authorisation  Default value: token=YWRtaW46cGFzc3dvcmQxMjM |
| Authorisation **required** | string | YWRtaW46cGFzc3dvcmQxMjM=] Basic authorisation header to access the PUT endpoint, can be used as an alternative to the Cookie header  Default value: Basic YWRtaW46cGFzc3dvcmQxMjM |

## **Url Parameter**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| id **required** | Number | ID for the booking you want to update |

## 

## **Request body**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| firstname **required** | String | Firstname for the guest who made the booking |
| lastname **required** | String | Lastname for the guest who made the booking |
| totalprice **optional** | Number | The total price for the booking |
| depositpaid **optional** | Boolean | Whether the deposit has been paid or not |
| checkin **optional** | Date | Date the guest is checking in |
| checkout **optional** | Date | Date the guest is checking out |
| additionalneeds **optional** | String | Any other needs the guest has |

## **Success 200**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| firstname | String | Firstname for the guest who made the booking |
| lastname | String | Lastname for the guest who made the booking |
| totalprice | Number | The total price for the booking |
| depositpaid | Boolean | Whether the deposit has been paid or not |
| bookingdates | Object | Sub-object that contains the checkin and checkout dates |
| checkin | Date | Date the guest is checking in |
| checkout | Date | Date the guest is checking out |
| additionalneeds | String | Any other needs the guest has |

* Response:

**HTTP/1.1 200 OK**

{

"firstname" : "James",

"lastname" : "Brown",

"totalprice" : 111,

"depositpaid" : true,

"bookingdates" : {

"checkin" : "2018-01-01",

"checkout" : "2019-01-01"

},

"additionalneeds" : "Breakfast"

}

**6. Booking - PartialUpdateBooking**

Updates a current booking with a partial payload

**PATCH**: <https://restful-booker.herokuapp.com/booking/id>

{

"firstname" : "James",

"lastname" : "Brown"

}

## **Header**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Content-Type **required** | string | Sets the format of payload you are sending. Can be application/json or text/xml  Default value: application/json |
| Accept **required** | string | Sets what format the response body is returned in. Can be application/json or application/xml  Default value: application/json |
| Cookie **required** | string | Sets an authorisation token to access the PUT endpoint, can be used as an alternative to the Authorisation  Default value: token= YWRtaW46cGFzc3dvcmQxMjM |
| Authorisation **required** | string | YWRtaW46cGFzc3dvcmQxMjM=] Basic authorisation header to access the PUT endpoint, can be used as an alternative to the Cookie header  Default value: Basic YWRtaW46cGFzc3dvcmQxMjM |

## **Url Parameter**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| id **required** | Number | ID for the booking you want to update |

## **Request body**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| firstname **required** | String | Firstname for the guest who made the booking |
| lastname **required** | String | Lastname for the guest who made the booking |
| totalprice **optional** | Number | The total price for the booking |
| depositpaid **optional** | Boolean | Whether the deposit has been paid or not |
| checkin **optional** | Date | Date the guest is checking in |
| checkout **optional** | Date | Date the guest is checking out |
| additionalneeds **optional** | String | Any other needs the guest has |

## **Success 200**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| firstname | String | Firstname for the guest who made the booking |
| lastname | String | Lastname for the guest who made the booking |
| totalprice | Number | The total price for the booking |
| depositpaid | Boolean | Whether the deposit has been paid or not |
| bookingdates | Object | Sub-object that contains the checkin and checkout dates |
| checkin | Date | Date the guest is checking in |
| checkout | Date | Date the guest is checking out |
| additionalneeds | String | Any other needs the guest has |

* Response:

HTTP/1.1 200 OK

{

"firstname" : "James",

"lastname" : "Brown",

"totalprice" : 111,

"depositpaid" : true,

"bookingdates" : {

"checkin" : "2018-01-01",

"checkout" : "2019-01-01"

},

"additionalneeds" : "Breakfast"

}

**7. Booking - DeleteBooking**

Returns the ids of all the bookings that exist within the API. Can take optional query strings to search and return a subset of booking ids.

DELETE: <https://restful-booker.herokuapp.com/booking/id>

## **Header**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Cookie **required** | string | Sets an authorisation token to access the DELETE endpoint, can be used as an alternative to the Authorisation  Default value: token= |
| Authorisation **required** | string | YWRtaW46cGFzc3dvcmQxMjM=] Basic authorisation header to access the DELETE endpoint, can be used as an alternative to the Cookie header  Default value: Basic |

## **Url Parameter**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| id **required** | Number | ID for the booking you want to update |

## 

## **Success 204**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Status | String | Default HTTP 204 response |