# **Requirement Document**

# **(Restful Booker)**

## API documentation for the playground API restful-booker

(https://restful-booker.herokuapp.com/apidoc/index.html)

# Auth - CreateToken

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

**POST**

https://restful-booker.herokuapp.com/auth

**Header**

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

**Request body**

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

**Response body**

**Success 200**

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

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# Booking

# 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

**Parameter**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| firstname**optional** | String | Return bookings with a specific firstname |
| lastname**optional** | String | Return bookings with a specific lastname |
| checkin**optional** | date | Return bookings that have a checkin date greater than or equal to the set checkin date. Format must be CCYY-MM-DD |
| checkout**optional** | date | Return bookings that have a checkout date greater than or equal to the set checkout date. Format must be CCYY-MM-DD |

**Response body**

**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 |

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# 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 | 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 |

**Response body**

**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 |

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# Booking - CreateBooking

Creates a new booking in the API

**POST**

https://restful-booker.herokuapp.com/booking

**Header**

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

**Response body**

**Request body**

| **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 |
| 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 body**

**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 |

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# Booking - UpdateBooking

Updates a current booking

**PUT**

https://restful-booker.herokuapp.com/booking/:id

**Header**

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

**Note: User can Pass the cookie or Authorization in the header not to pass both the values.**

**Url Parameter**

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

**Request body**

| **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 |
| 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 body**

**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 |

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# Booking - PartialUpdateBooking

Updates a current booking with a partial payload

**PATCH**

https://restful-booker.herokuapp.com/booking/:id

**Header**

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

**Note: User can Pass the cookie or Authorization in the header not to pass both the values.**

**Url Parameter**

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

**Request body**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| firstname**optional** | String | Firstname for the guest who made the booking |
| lastname**optional** | 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 |

**Response body**

**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 |

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# 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/1

## Header

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Cookie**optional** | string | Sets an authorization token to access the DELETE endpoint, can be used as an alternative to the Authorization  Default value: token=<token\_value> |
| Authorization**optional** | string | Basic authorization header to access the DELETE endpoint, can be used as an alternative to the Cookie header  Default value: Basic YWRtaW46cGFzc3dvcmQxMjM= |

## Url Parameter

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

**Response body**

## Success 200

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| OK | String | Default HTTP 201 response |

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# Ping - HealthCheck

A simple health check endpoint to confirm whether the API is up and running.

**GET**

https://restful-booker.herokuapp.com/ping

**Response body**

## Success 200

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| OK | String | Default HTTP 201 response |