

Booking management

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

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
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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
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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

