

Task #2: API Tests

[Loading... QUESTION LINK](#)

Given the API specification documentation attached above, create an API test automation suite using any tool of your choice to cover all positive and negative scenarios of the **CreateBooking** endpoint specified in the API documentation.

Positive Test Given API:

This document covers all the positive test results of the scenario CreateBooking according to the specification deliverables are Headers, Request Body, Success Status, Response available JSON, XML, URL Authentications with actual results.

TEST SCOPE:	Creates a new booking in the API
Tool for Test:	POSTMAN
HTTP method:	POST
URL:	https://restful-booker.herokuapp.com/booking
CLONE	GET bookingID
Date	20/9/2022
Candidate	Muhammad Saad

JSON Response: Current response with correct inputs.

The screenshot displays a REST client interface with a POST request to `https://restful-booker.herokuapp.com/booking`. The request body is a JSON object with the following fields: `firstname` (Saad), `lastname` (Browni), `totalprice` (111123123123), `depositpaid` (true), and `bookingdates` (an object with `checkin` and `checkout` dates). The response status is 200 OK, with a time of 1294 ms and a size of 482 B. The response body is a JSON object containing `bookingid` (11401) and a `booking` object with the same details as the request, plus an `additionalneeds` field with the value "Happily accept what provide hounourly".

```
1 POST https://restful-booker.herokuapp.com/booking
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```

```
1 {
2   "firstname": "Saad",
3   "lastname": "Browni",
4   "totalprice": 111123123123,
5   "depositpaid": true,
6   "bookingdates": {
7     "checkin": "2022-01-01",
8     "checkout": "2024-01-01"
9   },
10   "additionalneeds": "Happily accept what provide hounourly"
11 }
12
13
14
```

HEADERS TEST:

Field	Type	Description	Actual result
Content Type	String	Set the format payload you are sending. Default Value: <code>Application/json</code>	PASS Result link: https://vimeo.com/751615697/c71ba3e0da
Accept	String	The Accept request HTTP header indicates which content types, expressed as <u>MIME types</u> .	PASS Result link: https://vimeo.com/751615697/c71ba3e0da

POST ▼ https://restful-booker.herokuapp.com/booking Send ▼

Params Authorization **Headers (8)** Body ● Pre-request Script Tests Settings Cookies

Headers Hide auto-generated headers

	KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets ▼
<input checked="" type="checkbox"/>	Content-Type	① text/plain				
<input checked="" type="checkbox"/>	Content-Length	① <calculated when request is sent>				
<input checked="" type="checkbox"/>	Host	① <calculated when request is sent>				
<input checked="" type="checkbox"/>	User-Agent	① PostmanRuntime/7.29.2				
<input checked="" type="checkbox"/>	Accept	① */*				
<input checked="" type="checkbox"/>	Accept-Encoding	① gzip, deflate, br				
<input checked="" type="checkbox"/>	Connection	① keep-alive				
<input checked="" type="checkbox"/>	Content-Type	application/json				
	Key	Value	Description			

Body Cookies Headers (8) Test Results 🔗 Status: 200 OK Time: 1294 ms Size: 482 B Save Response ▼

Pretty Raw Preview Visualize JSON ▼ 🔍

REQUEST BODY TEST : Tested with positive inputs and correct endpoint.

Field	Type	Description	Actual result	Status
First name	String	First Name for the guest who made the booking	PASS: response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:838 ms Size:482 B
Last name	String	last name for the guest who made the booking	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:838 ms Size:482 B
Total Price	Number	The total price for the	PASS:	200 OK

		booking	response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	Time:838 ms Size:482 B
Deposit paid	Boolean	Whether the deposit has been paid or not	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:838 ms Size:482 B
Checkin	Date	Date the guest is checking in	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:838 ms Size:482 B
Checkout	Date	Date the guest is checking out	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:838 ms Size:482 B
Additional needs	String	Any other needs the guest has	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B

POST

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

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Beautify

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-----"firstname" : "Saad",

-----"lastname" : "Brown1",

-----"totalprice" : 111123123123,

-----"depositpaid" : true,

-----"bookingdates" : {

-----"checkin" : "2022-01-01",

-----"checkout" : "2024-01-01"

-----},

-----"additionalneeds" : "Happily accept what provide hounourly"

Body

Cookies

Headers (8)

Test Results

Status: 200 OK

Time: 1294 ms

Size: 482 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

Success 200 Test Response Body:

Field	Type	Description	Actual result	Status
BookingID	Number	ID for newly created booking	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B
Booking	Object	Object that contains	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B

First name	String	First Name for the guest who made the booking	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B
Last name	String	last name for the guest who made the booking	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B
Total Price	Number	The total price for the booking	PASS:response body provides required request. Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B
Deposit paid	Boolean	Whether the deposit has been paid or not	PASS Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B
Booking dates	Object	Sub Object that contains the check in and check out dates	PASS Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B
Checkin	Date	Date the guest is checking in	PASS Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B

Checkout	Date	Date the guest is checking out	PASS Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B
Additional needs	String	Any other needs the guest has	PASS Result link: https://vimeo.com/751619632/642ffbfb7	200 OK Time:723 ms Size:482 B

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

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded **raw** binary GraphQL JSON Beautify

1

Body Cookies Headers (8) Test Results Status: 200 OK Time: 1294 ms Size: 482 B Save Response

Pretty Raw Preview Visualize JSON

```

1
2  "bookingid": 11401,
3  "booking": {
4    "firstname": "Saad",
5    "lastname": "Browni",
6    "totalprice": 111123123123,
7    "depositpaid": true,
8    "bookingdates": {
9      "checkin": "2022-01-01",
10     "checkout": "2024-01-01"
11   },
12   "additionalneeds": "Happily accept what provide hounourly"
13 }
14

```

Negative Test Cases:

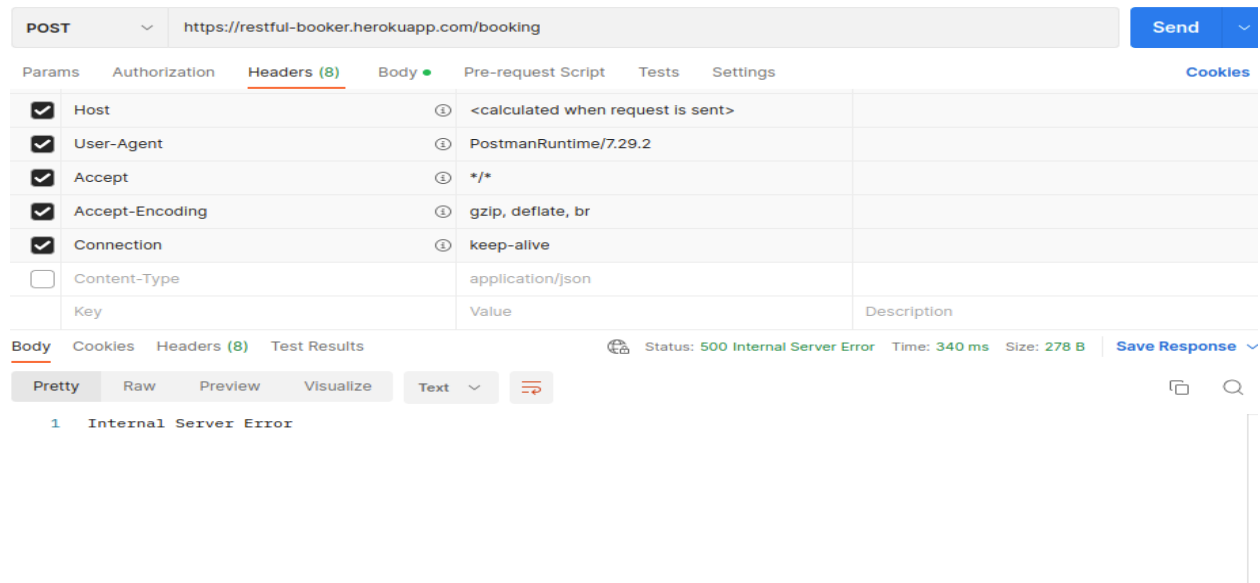
This document covers all the negative test results of the scenario CreateBooking according to the specification deliverables are ChangingHeaders, Validation test Request Body, Success Status, Validation test Response available JSON, XML, URL Authentications with actual results.

TEST SCOPE:	Creates a new booking in the API
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Tool for Test:	POSTMAN
HTTP method:	POST/PUT/GET/HEAD
URL:	https://restful-booker.herokuapp.com/booking
CLONE	GET bookingID
Date	20/9/2022
Candidate	Muhammad Saad

HEADERS TEST: Negative test by canceling content type and Accept in headers then try to run API.

Field	Type	Description	Actual result
Content Type	String	By canceling this field Api should not respond with 200 status	PASS Result link: https://vimeo.com/751674096/8e27d9f17b
Accept	String	By canceling this field Api should not respond with 200 status	PASS Result link: https://vimeo.com/751674096/8e27d9f17b



REQUEST BODY TEST: Test with wrong data for checking validation error messages.

Field	Type	Description	Actual result	Status
First name	String	Type is string validation check for entering wrong data and long character and field should not be empty	FAIL: No character limit & accepting empty fields Result link: https://vimeo.com/751658510/f55c6f8c5f	200 OK Time:838 ms Size:482 B
Last name	String	Type is string validation check for entering wrong data field should not be empty	FAIL: No character limit & accepting empty fields Result link: https://vimeo.com/751659090/4ee4f46a78	200 OK Time:838 ms Size:482 B
Total Price	Number	The total price for the booking set to number limited to 11 characters validating with negative input 15 and Decimal input	FAIL: No validation for limited digits Result link: https://vimeo.com/751660281/03e3386422	200 OK Time:838 ms Size:482 B
Deposit paid	Boolean	Checking the validation with wrong input for Deposit paid only	PASS: fields are validated.	400: Bad request

		boolean allowed	Result link: https://vimeo.com/751664167/fab4b88b8d	Time:323 ms Size:257 B
Checkin	Date	Checking the input with numbers and character only checking on empty field	FAIL: empty field should not be allowed Result link: https://vimeo.com/751665840/bab06e1ae9	200 OK Time:838 ms Size:482 B
Checkout	Date	Checking the input with numbers and character only	FAIL: empty field should not be allowed Result link: https://vimeo.com/751665840/bab06e1ae9	200 OK Time:838 ms Size:482 B
Additional needs	String	Addition needs should characterize outside the upper fields and field should not empty	Fail: Empty field should not be allowed Result link: https://vimeo.com/751669315/f13be69244	200 OK Time:723 ms Size:482 B

CHECKING BOOKING ID: checking bookingID API to validate the results of Createbooking API are getting stored or not.

Field	Type	Description	Actual result	Status
Getting result for id: 183	GET request	Parameters should only accept required id and response should provide required results.	PASS: ID validated providing required results. Result link: https://vimeo.com/751680126/23ab9bc1a0	200 OK Time:838 ms Size:482 B

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

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Path Variables

KEY	VALUE	DESCRIPTION	...	Bulk Edit
id	saad	Description		

Body Cookies Headers (8) Test Results Status: 404 Not Found Time: 277 ms Size: 252 B Save Response

Pretty Raw Preview Visualize Text

1 Not Found

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

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Path Variables

KEY	VALUE	DESCRIPTION	...	Bulk Edit
id	183	Description		

Body Cookies Headers (8) Test Results Status: 200 OK Time: 264 ms Size: 415 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "firstname": "Saad",
3   "lastname": "Browni",
4   "totalprice": 111,
5   "depositpaid": true,
6   "bookingdates": {
7     "checkin": "2022-01-01",
8     "checkout": "2024-01-01"
9   },
10  "additionalneeds": "Breakfast"
11 }
```

End points and method changing on API Create Booking:

POST `https://restful-booker.herokuapp.com/booking/1` **Send**

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies Beautify

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON**

```
1 {
2   "firstname": "Saad",
3   "lastname": "Browni",
4   "totalprice": 111,
5   "depositpaid": true,
6   "bookingdates": {
7     "checkin": "2022-01-01",
8     "checkout": "2024-01-01"
9   }
10 }
```

Body Cookies Headers (8) Test Results Status: 404 Not Found Time: 276 ms Size: 252 B **Save Response**

Pretty Raw Preview Visualize Text

1 Not Found

PUT `https://restful-booker.herokuapp.com/booking` **Send**

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies Beautify

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON**

```
1 {
2   "firstname": "Saad",
3   "lastname": "Browni",
4   "totalprice": 111,
5   "depositpaid": true,
6   "bookingdates": {
7     "checkin": "2022-01-01",
8     "checkout": "2024-01-01"
9   }
10 }
```

Body Cookies Headers (8) Test Results Status: 404 Not Found Time: 253 ms Size: 252 B **Save Response**

Pretty Raw Preview Visualize Text

1 Not Found

PATCH

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

Send

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Beautify

```
1 {
2   ... "firstname" : "Saad",
3   ... "lastname" : "Browni",
4   ... "totalprice" : 111,
5   ... "depositpaid" : true,
6   ... "bookingdates" : {
7     ... "checkin" : "2022-01-01",
8     ... "checkout" : "2024-01-01"
9   }
10 }
```

Body Cookies Headers (8) Test Results

Status: 404 Not Found Time: 708 ms Size: 252 B Save Response

Pretty Raw Preview Visualize Text

1 Not Found

POST

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

Send

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Beautify

```
1 {
2   ... "firstname" : "Saad",
3   ... "lastname" : "Browni",
4   ... "totalprice" : 111,
5   ... "depositpaid" : true,
6   ... "bookingdates" : {
7     ... "checkin" : "2022-01-01",
8     ... "checkout" : "2024-01-01"
9   }
10 }
```

Body Cookies Headers (8) Test Results

Status: 404 Not Found Time: 290 ms Size: 252 B Save Response

Pretty Raw Preview Visualize Text

1 Not Found