

Overview

Thanks for considering Thirdwayv for your next employment opportunity. This assignment aims to assess your knowledge of fundamental API Testing. There is no single correct answer, and the goal is to explore your approach to this assignment, which will also be used as a discussion subject during the interview process.

The contents of this document should be treated as Confidential. You are expected to prepare the assignment without consulting with other third parties. Please delete any physical copies of this document and the downloaded copy upon completing the assignment.

This assignment is meant to evaluate candidates of various levels of expertise with Testing. In case you are not able to complete all tasks, either due to lack of time or lack of experience in particular areas of the assignment, we still encourage you to submit the deliverable you can prepare, however incomplete it may be, along with any notes about what you were unable to complete. It will still help us understand where you can best fit into our team and prepare the live technical interview.

The candidate might consider that any of the details in this document contain ambiguous or incomplete requirements. In that case, the candidate shall use their best judgment to fill in the gaps with assumptions and interpretations, and those assumptions should be documented within the code where appropriate.

Read the following steps before you run the API requests on Postman:

1. Create a collection named "test booking" that will include all your API Requests.
2. Make sure to run each API Request and verify that the response is correct.
3. Add an environment variable to contain the base URL <https://restful-booker.herokuapp.com>
4. Add an automation test in Postman to check the status code after each request.
5. Finally, you must export the collection as a JSON file and send it.

Postman Task:

1- Create Booking : Create an API Request to create a new booking. [Post Request]

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

- the response: 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

2- Get Booking Ids : Create an API Request to Returns the ids of all the bookings. [GET Request]

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

3- Get Booking : Create an API Request to returns a specific booking based upon the booking id provided. [GET Request]

- url: <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: <code>application/json</code>

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

- Add an automation test in Postman to verify the first name after a “**get booking API request**”. (for example if the retrieved booking has a first name = “Mohamed”, then add a test to verify that first name = Mohamed, and also check that this test will fail if you add a different name in the test)
- 4- **Create Token:** Create an API Request to create a new auth token to use for access to the UPDATE and DELETE Booking. **[Post Request]**
- URL: <https://restful-booker.herokuapp.com/auth>

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

Request body

Field	Type	Description
username	String	Username for authentication Default value: <code>admin</code>
password	String	Password for authentication Default value: <code>password123</code>

Success 200

Field	Type	Description
token	String	Token to use in future requests

5- Update Booking : Create an API Request to Updates a current booking. [PUT Request]

- url: <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: <code>application/json</code>
Accept	string	Sets what format the response body is returned in. Can be application/json or application/xml Default value: <code>application/json</code>
Cookie	string	Sets an authorization token to access the PUT endpoint, can be used as an alternative to the Authorization Default value: <code>token=<token_value></code>
Authorization optional	string	Basic authorization header to access the PUT endpoint, can be used as an alternative to the Cookie header Default value: <code>Basic YWRtaW46cGFzc3dvcmQxMjM=</code>

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

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

6- Delete Booking : Create an API Request to remove a booking based on its id. [DELETE Request]

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

Header

Field	Type	Description
Cookie	string	Sets an authorization token to access the DELETE endpoint, can be used as an alternative to the Authorization Default value: <code>token=<token_value></code>
Authorization optional	string	Basic authorization header to access the DELETE endpoint, can be used as an alternative to the Cookie header Default value: <code>Basic YWRtaW46cGFzc3dvcmQxMjM=</code>

Url Parameter

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

Success 200

Field	Type	Description
OK	String	Default HTTP 201 response