

# REST API & Mocking Test

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# Daftar Isi

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10. Mock test service get all product not found

# 1. Register

POST Register • POST Login POST Create GET Read PUT Update DEL Delete + ... No Environment

Digitalent Golang / JWT Auth / Register Save ...

POST http://localhost:8080/users/register Send

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

none form-data x-www-form-urlencoded raw binary GraphQL

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	full_name	Azhar R2			
<input checked="" type="checkbox"/>	role	user			
<input checked="" type="checkbox"/>	email	azhar3@gmail.com			

Body Cookies Headers (3) Test Results Status: 201 Created Time: 51 ms Size: 200 B Save as Example ...

Pretty Raw Preview Visualize JSON ...

```
1 {
2   "email": "azhar3@gmail.com",
3   "full_name": "Azhar R2",
4   "id": 3,
5   "role": "user"
6 }
```

## 2. Login

The screenshot shows a REST client interface with a top bar containing method tabs (POST Register, POST Login, POST Create, GET Read, PUT Update, DEL Delete) and an environment dropdown (No Environment). Below the top bar, the breadcrumb path is "Digitalent Golang / JWT Auth / Login". The main area displays a POST request to "http://localhost:8080/users/login". The request body is set to "x-www-form-urlencoded" with parameters: email (azhar3@gmail.com) and password (123456). The response status is 200 OK, with a time of 31 ms and a size of 283 B. The response body is shown in JSON format, containing a token.

POST Register POST Login POST Create GET Read PUT Update DEL Delete + ... No Environment

Digitalent Golang / JWT Auth / Login Save ...

POST http://localhost:8080/users/login Send

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

none form-data x-www-form-urlencoded raw binary GraphQL

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	email	azhar3@gmail.com			
<input checked="" type="checkbox"/>	password	123456			

Body Cookies Headers (3) Test Results Status: 200 OK Time: 31 ms Size: 283 B Save as Example ...

Pretty Raw Preview Visualize JSON ...

```
1
2  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1bmFpbCI6ImF6aGZlbnR5bC5jb20iLCJpZCI6ImYwcm9sZSI6InVzZXIifQ.89zx8qNCOWS2060jJD70RWhusB-kxV6zmlmy2ebSTQ"
3
```

### 3. Create Product (Admin & User)

The screenshot shows a REST client interface with a top navigation bar containing tabs for different HTTP methods: POST Register, POST Login, POST Create (selected), GET Read, PUT Update, and DEL Delete. There is also a '+ ...' button and a 'No Environment' dropdown. Below the navigation bar, the breadcrumb 'Digitalent Golang / JWT Auth / Create' is visible, along with 'Save' and '...' buttons. The main area shows a POST request to 'http://localhost:8080/products' with a 'Send' button. Below the URL bar, there are tabs for 'Params', 'Authorization', 'Headers (9)', 'Body' (selected), 'Pre-request Script', 'Tests', and 'Settings'. A 'Cookies' link is also present. Under the 'Body' tab, there are radio buttons for 'none', 'form-data', 'x-www-form-urlencoded' (selected), 'raw', 'binary', and 'GraphQL'. A table below shows the request body parameters:

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	title	Buku ABC			
<input checked="" type="checkbox"/>	description	ini sebuah buku ABC			
	Key	Value	Description		

Below the table, there are tabs for 'Body', 'Cookies', 'Headers (3)', and 'Test Results'. The 'Body' tab is selected, showing a JSON response in 'Pretty' format. The response status is '201 Created', with a time of '8 ms' and size of '318 B'. There are 'Save as Example' and '...' buttons. The JSON response is as follows:

```
1  {
2    "id": 14,
3    "created_at": "2023-04-09T17:03:02.041152294+07:00",
4    "updated_at": "2023-04-09T17:03:02.041152294+07:00",
5    "title": "Buku ABC",
6    "description": "ini sebuah buku ABC",
7    "UserID": 1,
8    "User": null
9  }
```

## 4. Read Product (Admin & User)

The screenshot shows a REST client interface with the following components:

- Method and URL:** GET `http://localhost:8080/products/4`
- Authorization:** Bearer Token with value `{{User DTS}}`
- Response Status:** 200 OK, Time: 6 ms, Size: 308 B
- Response Body (JSON):**

```
1 {
2   "id": 4,
3   "created_at": "2023-04-07T10:38:57.374847+07:00",
4   "updated_at": "2023-04-08T18:58:21.246718+07:00",
5   "title": "Buku diupdate 2",
6   "description": "deskripsi baru",
7   "UserID": 2,
8   "User": null
9 }
```

## 5. Update Product (Admin Only) - Can't Update By Role User

The screenshot shows a REST client interface with a top bar containing tabs for different HTTP methods: POST Register, POST Login, POST Create, GET Read, PUT Update (selected), and DEL Delete. There are also icons for adding new requests, a dropdown for 'No Environment', and a 'Save' button.

Below the top bar, the breadcrumb 'Digitalent Golang / JWT Auth / Update' is visible. The main request area shows a 'PUT' method and the URL 'http://localhost:8080/products/4'. A 'Send' button is on the right.

The 'Authorization' tab is selected, showing a 'Bearer T...' token type and a token value '>{{User DTS}}'. A descriptive text explains that the authorization header will be automatically generated.

The 'Body' tab is selected, showing the response status '401 Unauthorized', time '11 ms', and size '209 B'. The response body is displayed in 'Pretty' JSON format:

```
1 {
2   "error": "Unauthorized",
3   "message": "you are not allowed to access this data"
4 }
```

## 5. Update Product (Admin Only)

The screenshot shows a REST client interface with a top navigation bar containing buttons for POST Register, POST Login, POST Create, GET Read, PUT Update (selected), and DEL Delete. A dropdown menu shows 'No Environment'. Below the navigation bar, the breadcrumb 'Digitalent Golang / JWT Auth / Update' is visible, along with 'Save' and 'Send' buttons. The main area is divided into tabs: Params, Authorization (selected), Headers (9), Body, Pre-request Script, Tests, and Settings. The 'Authorization' tab shows 'Type' as 'Bearer T...' and 'Token' as '{{Admin DTS}}'. Below this, a text block explains that the authorization header will be automatically generated. The 'Body' tab is selected, showing a JSON response in 'Pretty' format. The response status is '200 OK' with a time of '7 ms' and size of '263 B'. The JSON body contains product update details.

POST Register POST Login POST Create GET Read PUT Update DEL Delete + ... No Environment

Digitalent Golang / JWT Auth / Update Save Send

PUT http://localhost:8080/products/4

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Type Bearer T... Token {{Admin DTS}}

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#)

Body Cookies Headers (3) Test Results Status: 200 OK Time: 7 ms Size: 263 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 4,
3   "updated_at": "2023-04-09T17:25:37.491081394+07:00",
4   "title": "Buku diupdate 2",
5   "description": "deskripsi baru",
6   "UserID": 1,
7   "User": null
8 }
```



## 6. Delete Product (Admin Only) - Can't Delete By Role User

The screenshot shows a REST client interface with a top bar containing method tabs: POST Register, POST Login, POST Create, GET Read, PUT Update, and DEL Delete (which is highlighted with a red border and a red dot). The breadcrumb path is "Digitalent Golang / JWT Auth / Delete". The main area shows a DELETE request to "http://localhost:8080/products/4". The "Authorization" tab is selected, showing a "Bearer T..." type and a token field containing "{{User DTS}}". Below this, a message states: "The authorization header will be automatically generated when you send the request. Learn more about [authorization](#)". The "Body" tab is selected at the bottom, showing a JSON response with an error. The status bar indicates "Status: 401 Unauthorized", "Time: 3 ms", and "Size: 209 B".

POST Register POST Login POST Create GET Read PUT Update **DEL Delete** + ... No Environment

Digitalent Golang / JWT Auth / Delete Save ...

**DELETE** http://localhost:8080/products/4 Send

Params **Authorization** Headers (7) Body Pre-request Script Tests Settings Cookies

Type Bearer T... Token {{User DTS}}

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#)

Body Cookies Headers (3) Test Results Status: 401 Unauthorized Time: 3 ms Size: 209 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "error": "Unauthorized",
3   "message": "you are not allowed to access this data"
4 }
```

## 6. Delete Product (Admin Only)

The screenshot displays a REST client interface with a top navigation bar containing tabs for various HTTP methods: POST Register, POST Login, POST Create, GET Read, PUT Update, and DEL Delete (which is currently selected). To the right of these tabs are icons for adding a new item, a menu, and the environment name 'No Environment'. Below the navigation bar, the breadcrumb 'Digitalent Golang / JWT Auth / Delete' is shown, followed by a 'Save' button and a menu icon. The main request configuration area shows the method 'DELETE' and the URL 'http://localhost:8080/products/4', with a 'Send' button to the right. Below this, tabs for 'Params', 'Authorization', 'Headers (7)', 'Body', 'Pre-request Script', 'Tests', and 'Settings' are visible, with 'Authorization' being the active tab. In the 'Authorization' tab, the 'Type' is set to 'Bearer T...' and the 'Token' field contains the value '{{Admin DTS}}'. A descriptive text about authorization headers is also present. At the bottom, the 'Body' tab is active, showing a JSON response in 'Pretty' format: 

```
1 {
2   "message": "Product has been deleted"
3 }
```

 Above the response body, status information is displayed: 'Status: 200 OK', 'Time: 5 ms', 'Size: 161 B', and a 'Save as Example' button.

POST Register POST Login POST Create GET Read PUT Update **DEL Delete** + ... No Environment

Digitalent Golang / JWT Auth / Delete Save ...

**DELETE** http://localhost:8080/products/4 Send

Params **Authorization** Headers (7) Body Pre-request Script Tests Settings Cookies

Type Bearer T... Token {{Admin DTS}}

The authorization header will be automatically generated when you send the request. Learn more about [authorization](#)

Body Cookies Headers (3) Test Results Status: 200 OK Time: 5 ms Size: 161 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Product has been deleted"
3 }
```

7. Mock test service get one product found
8. Mock test service get one product not found
9. Mock test service get all product found
10. Mock test service get all product not found

```
✓ chapter-3/challenge-3 0.0ms
  ✓ service
    ✓ product_service_test.go
      ✓ TestProductServiceGetOneProductNotFound
      ✓ TestProductServiceGetOneProduct
      ✓ TestProductServiceGetAllProductNotFound
      ✓ TestProductServiceGetAllProductFound
```

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