

1 DAY 1 CHALLENGE ... until urgh ... I get gf?

DAY 17 (24th Jan 2024) (by Syafiqlim)

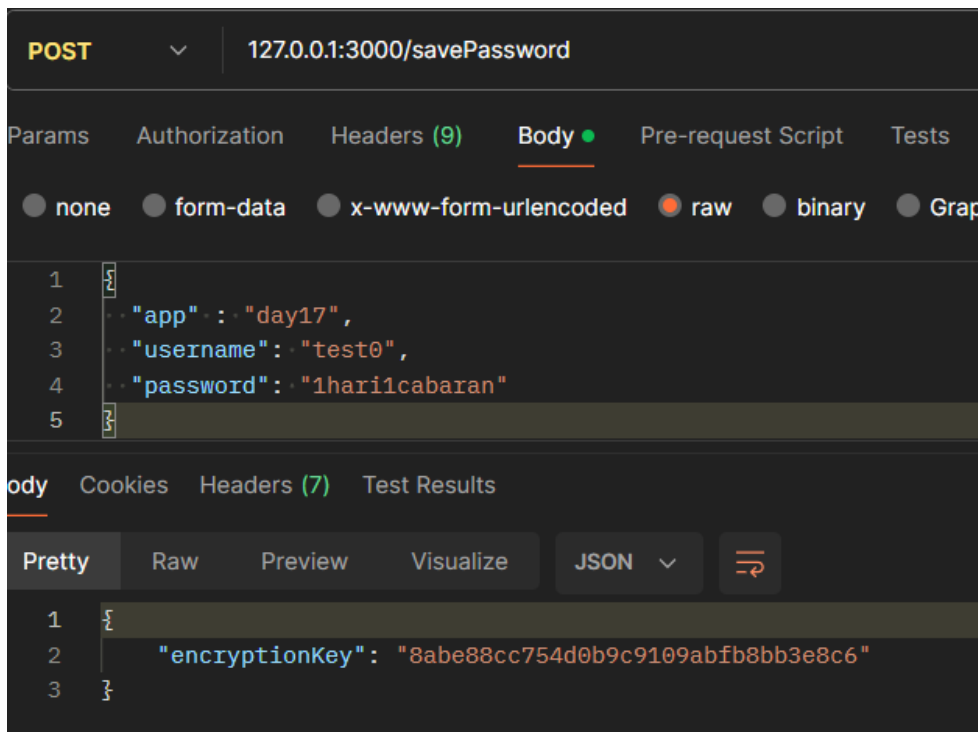
Secure Password Vault (API) (Encryption using AES-128-ECB)

Dependencies and requirements

1. Node modules :
 - i. express
 - ii. mysql2
 - iii. crypto
2. Complete MySQL database (schema provided)

Flow

1. Execute “ node passVault.js ”.
2. Using Postman (or other API tool), make a POST request with example JSON body { “app” : “app”, “username” : “user”, “password” : “pass” }, then get the encryptionKey responded by API server.



3. Check in MySQL database, if correctly saved in database with satisfied the requirements

```
mysql> SELECT * FROM User;
+----+-----+-----+-----+
| id | app   | username | password |
+----+-----+-----+-----+
| 1  | day17 | test0    | 302a3c64b04d51a2ae509d4e682ced1d |
+----+-----+-----+-----+
1 row in set (0.00 sec)
```

4. Now, make a GET request with parameters app, username, encryptionKey. This is for retrieving credentials from database and decrypting password with provided encryptionKey.

The screenshot shows a REST client interface with a GET request to `127.0.0.1:3000/getPassword?app=day17&username=test0&encryptionKey=8abe88cc754d0b9c9109abfb8bb3e8c6`. The parameters are listed in a table below.

Key	Value	Description
app	day17	
username	test0	
encryptionKey	8abe88cc754d0b9c9109abfb8bb3e8c6	

The response body is shown in JSON format:

```
{
  "app": "day17",
  "username": "test0",
  "password": "1hari1cabaran"
}
```

*What if encryptionKey parameter filled with wrong, not-corresponding key?

The screenshot shows a REST client interface with a GET request to `127.0.0.1:3000/getPassword?app=day17&username=test0&encryptionKey=ddddddedew`. The parameters are listed in a table below.

Key	Value	Description
app	day17	
username	test0	
encryptionKey	ddddddedew	

The response body is shown in JSON format, indicating an error:

```
{
  "error": "Internal Server Error"
}
```