

Joshua Atmadjaya

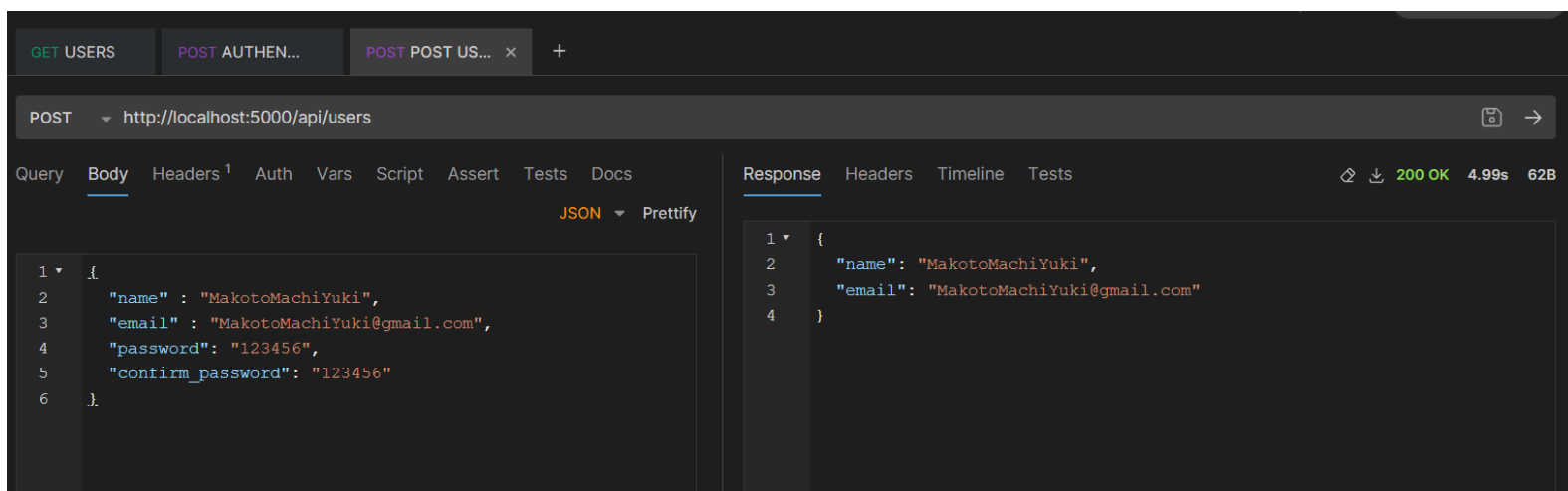
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TI – B

Back-End Programming

Exercise API Project

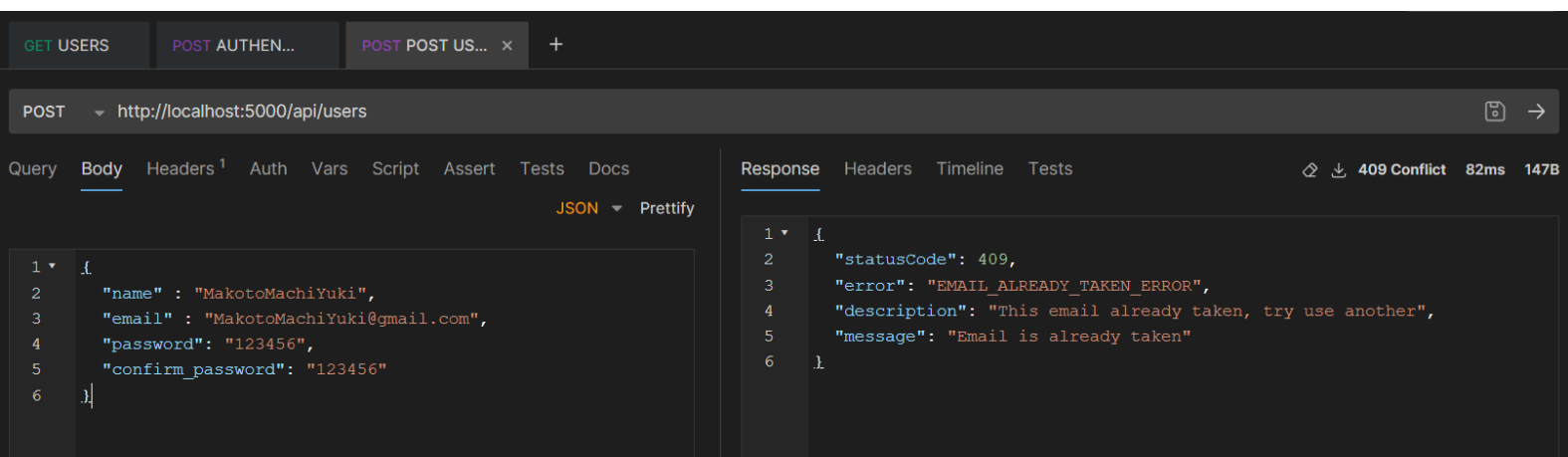
1. Prevent Duplicate Email



```
POST http://localhost:5000/api/users

{
  "name": "MakotoMachiYuki",
  "email": "MakotoMachiYuki@gmail.com",
  "password": "123456",
  "confirm_password": "123456"
}
```

```
{
  "name": "MakotoMachiYuki",
  "email": "MakotoMachiYuki@gmail.com"
}
```

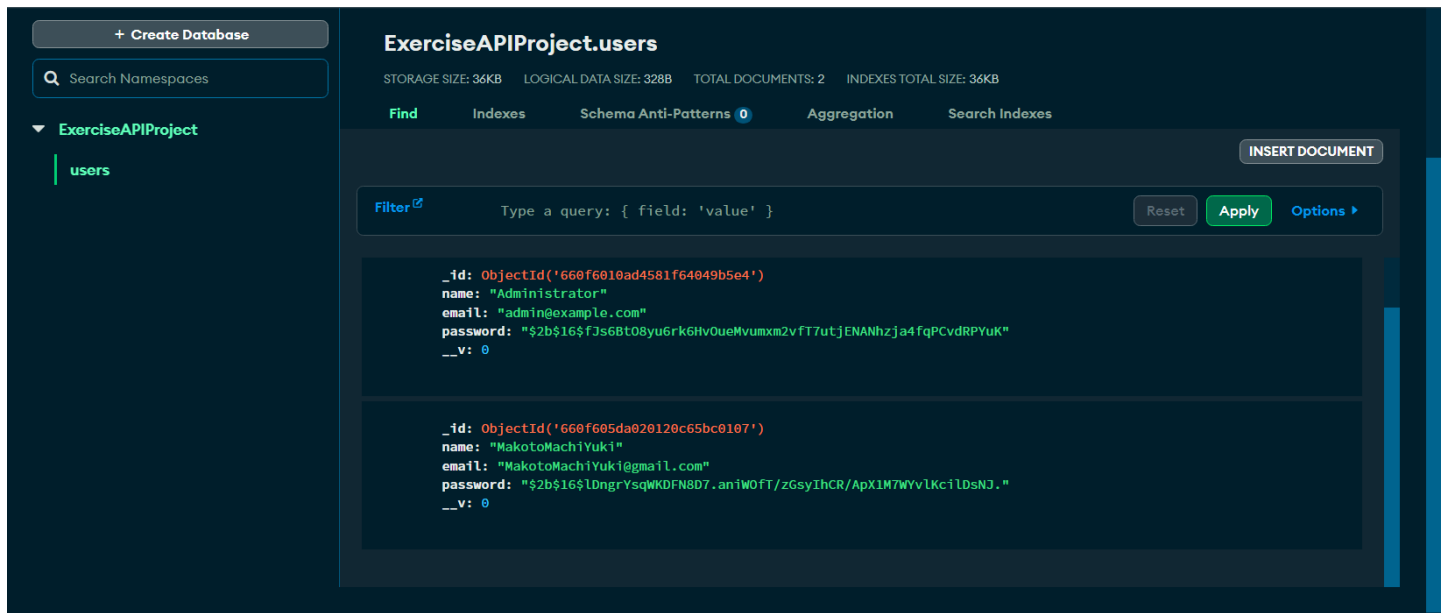


```
POST http://localhost:5000/api/users

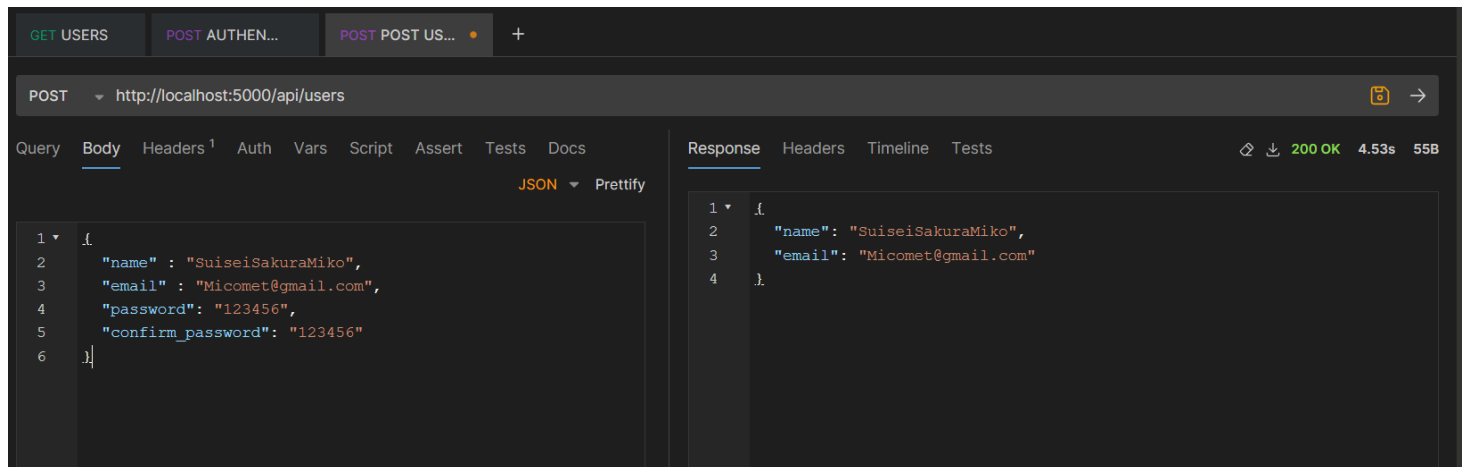
{
  "name": "MakotoMachiYuki",
  "email": "MakotoMachiYuki@gmail.com",
  "password": "123456",
  "confirm_password": "123456"
}
```

```
{
  "statusCode": 409,
  "error": "EMAIL_ALREADY_TAKEN_ERROR",
  "description": "This email already taken, try use another",
  "message": "Email is already taken"
}
```

Ketika email yang sudah dicreate dan masuk terdalam database mongodbnnya.. Maka email yg sama tidak akan bisa digunakan lagi karena akan mengembalikan error message 409 dan tidak akan masuk kedalam databasenya



Dan tentu saja email yg berbeda bisa dicreate



Dan juga ketika emailnya mau diupdate melewati put dengan email sebelumnya maupun email yg sudah terdaftar di databasenya tidak akan bisa diupdate

The screenshot shows a Postman interface with a PUT request to `http://localhost:5000/api/users/660f605da020120c65bc0107`. The request body is a JSON object: `{ "name": "MakotoMachiYuki", "email": "MakotoMachiYuki@gmail.com" }`. The response is a JSON object: `{ "statusCode": 409, "error": "EMAIL_ALREADY_TAKEN_ERROR", "description": "This email already taken, try use another", "message": "Email is already taken" }`. The status bar indicates a 409 Conflict, 144ms, and 147B.

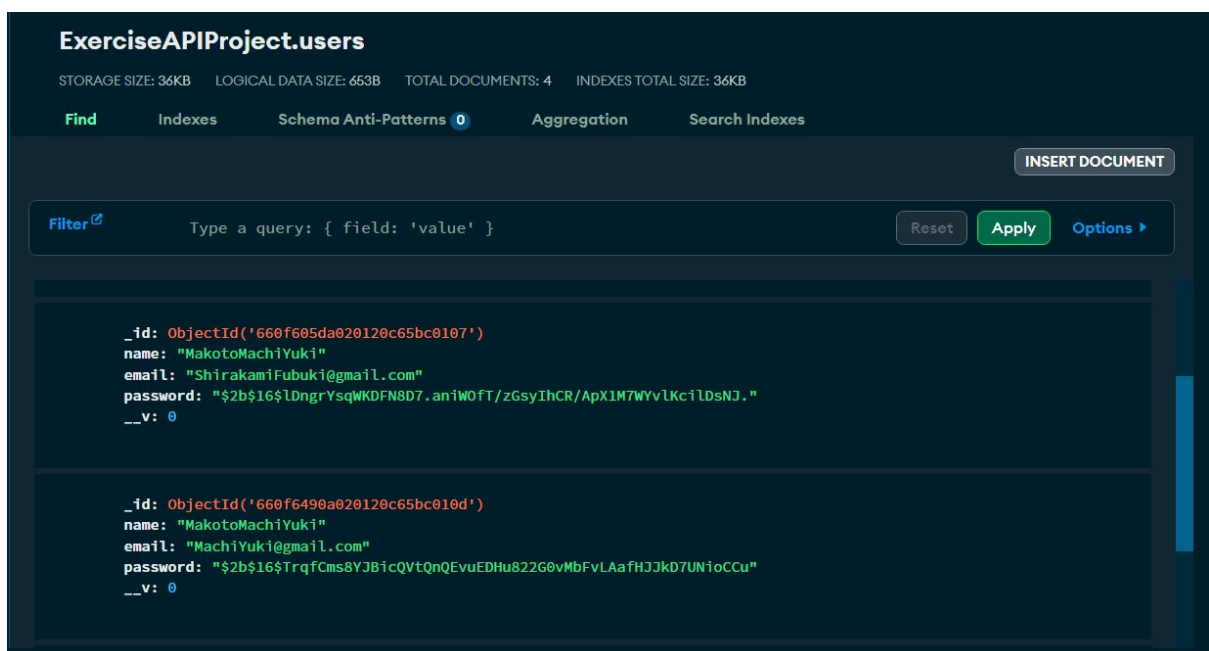
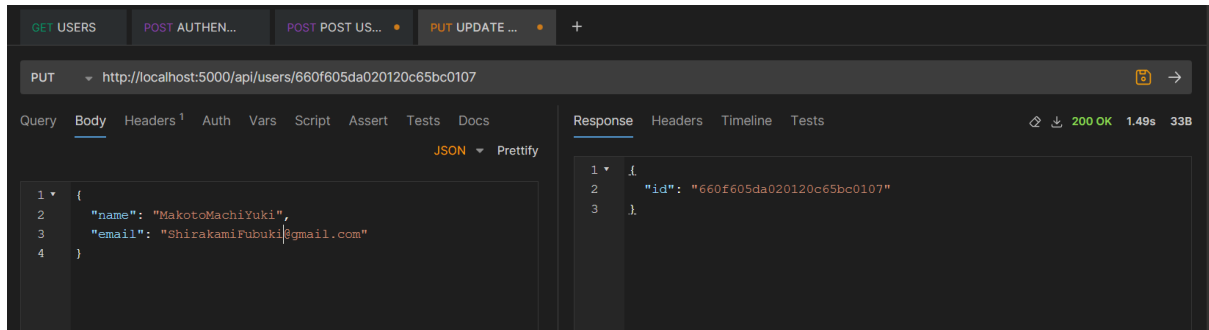
The screenshot shows a Postman interface with a PUT request to `http://localhost:5000/api/users/660f605da020120c65bc0107`. The request body is a JSON object: `{ "name": "MakotoMachiYuki", "email": "MachiYuki@gmail.com" }`. The response is a JSON object: `{ "statusCode": 409, "error": "EMAIL_ALREADY_TAKEN_ERROR", "description": "This email already taken, try use another", "message": "Email is already taken" }`. The status bar indicates a 409 Conflict, 226ms, and 147B.

The screenshot shows the MongoDB Compass interface for the `ExerciseAPIProject.users` collection. The storage size is 34KB, logical data size is 653B, total documents are 4, and indexes total size is 34KB. The 'Find' tab is active, showing a filter query: `{ field: 'value' }`. The results show two documents:

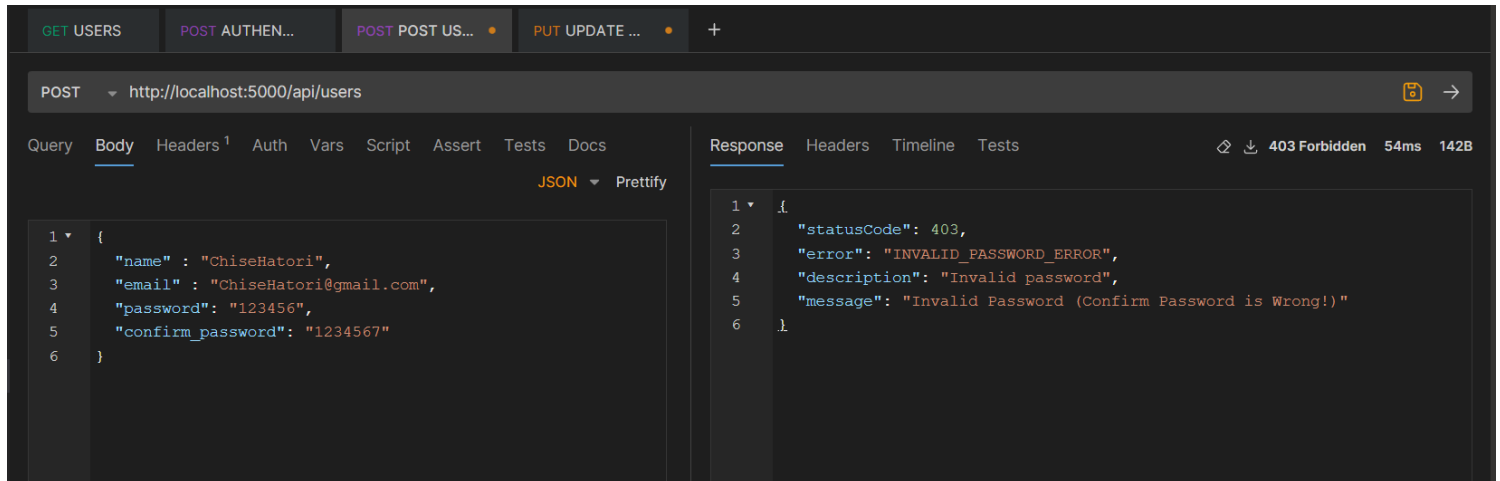
```
{
  "_id": ObjectId('660f605da020120c65bc0107'),
  "name": "MakotoMachiYuki",
  "email": "MakotoMachiYuki@gmail.com",
  "password": "$2b$16$LDngrYsqWKDFN8D7.aniW0fT/zGsyIhCR/ApX1M7WYvVKcildsNJ.",
  "__v": 0
}
```

```
{
  "_id": ObjectId('660f6490a020120c65bc010d'),
  "name": "MakotoMachiYuki",
  "email": "MachiYuki@gmail.com",
  "password": "$2b$16$TrqfCms8YJBicQVtQnQEvuEDHu822G0vMbFvLAafHJJkD7UNioCCu",
  "__v": 0
}
```

Dan jika berhasil maka akan return id nya dan emailnya sudah terupdate di databasenya (User yg diupdate adalah user yg email sebelumnya MakotoMachiYuki@gmail.com menjadi ShirakamiFubuki@gmail.com)



2. Confirm Password



POST http://localhost:5000/api/users

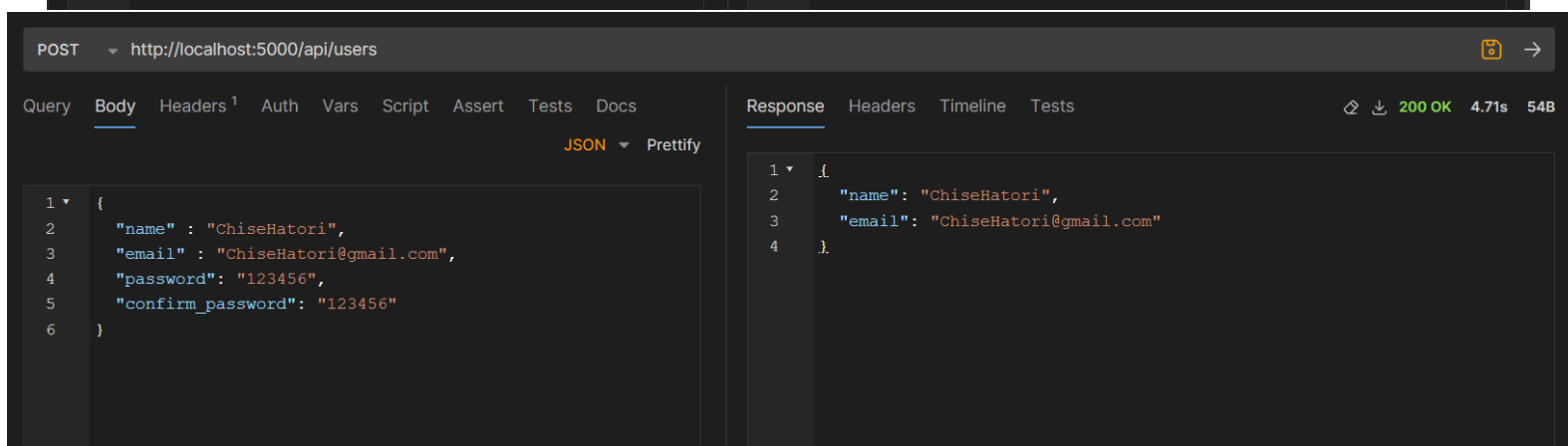
Body

```
1 {
2   "name" : "ChiseHatori",
3   "email" : "ChiseHatori@gmail.com",
4   "password": "123456",
5   "confirm_password": "1234567"
6 }
```

Response

```
1 {
2   "statusCode": 403,
3   "error": "INVALID_PASSWORD_ERROR",
4   "description": "Invalid password",
5   "message": "Invalid Password (Confirm Password is Wrong!)"
6 }
```

403 Forbidden 54ms 142B



POST http://localhost:5000/api/users

Body

```
1 {
2   "name" : "ChiseHatori",
3   "email" : "ChiseHatori@gmail.com",
4   "password": "123456",
5   "confirm_password": "123456"
6 }
```

Response

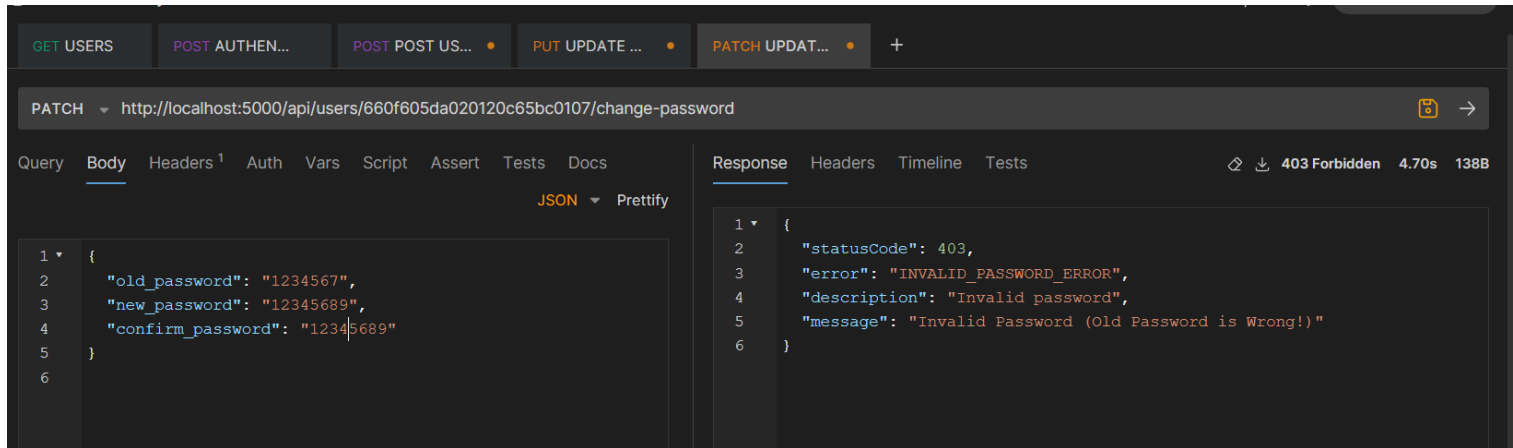
```
1 {
2   "name": "ChiseHatori",
3   "email": "ChiseHatori@gmail.com"
4 }
```

200 OK 4.71s 54B

Dan jika `confirm_password` tidak sama dengan `password` maka akan mengembalikan error message “Invalid Password (Confirm Password is Wrong!) dengan kode 403

3. Change Password

Password awalnya adalah 123456 yg dimana ketika old_passwordnya diisi dengan password yg salah maka akan mengembalikan error message 403 dengan message “Old Password is Wrong”

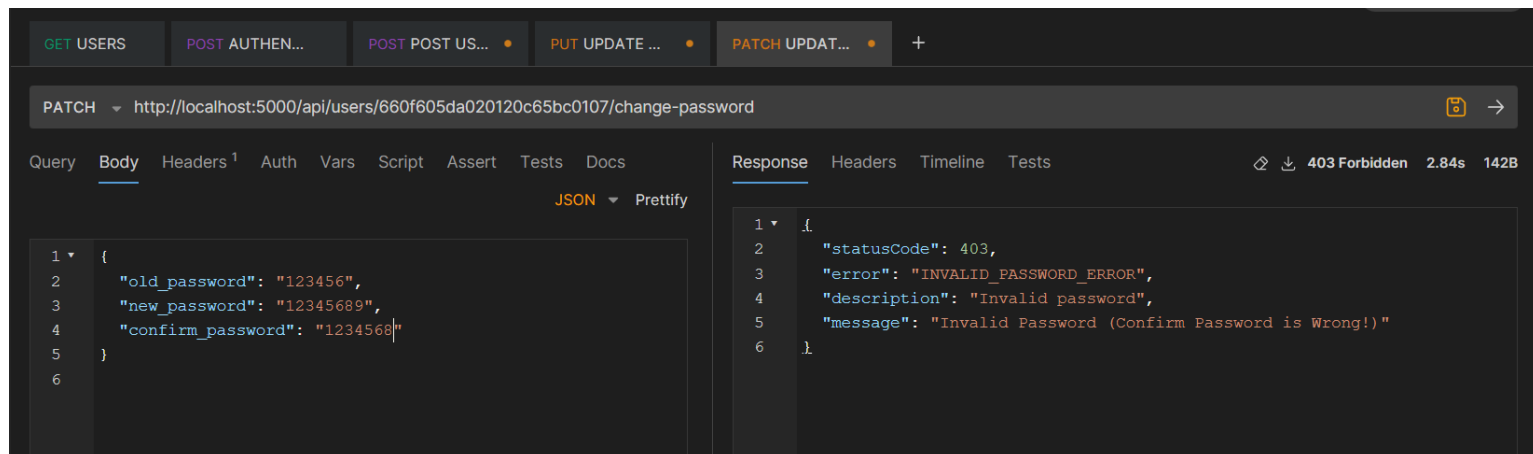


The screenshot shows a REST client interface with a PATCH request to `http://localhost:5000/api/users/660f605da020120c65bc0107/change-password`. The request body is a JSON object with `old_password`, `new_password`, and `confirm_password` fields. The response is a 403 Forbidden status with an error message: "Invalid Password (Old Password is Wrong!)"

```
1 {
2   "old_password": "1234567",
3   "new_password": "12345689",
4   "confirm_password": "12345689"
5 }
6
```

```
1 {
2   "statusCode": 403,
3   "error": "INVALID_PASSWORD_ERROR",
4   "description": "Invalid password",
5   "message": "Invalid Password (Old Password is Wrong!)"
6 }
```

Begitu pula jika confirm_password tidak sama dengan new_password akan mengembalikan message confirm_password is wrong

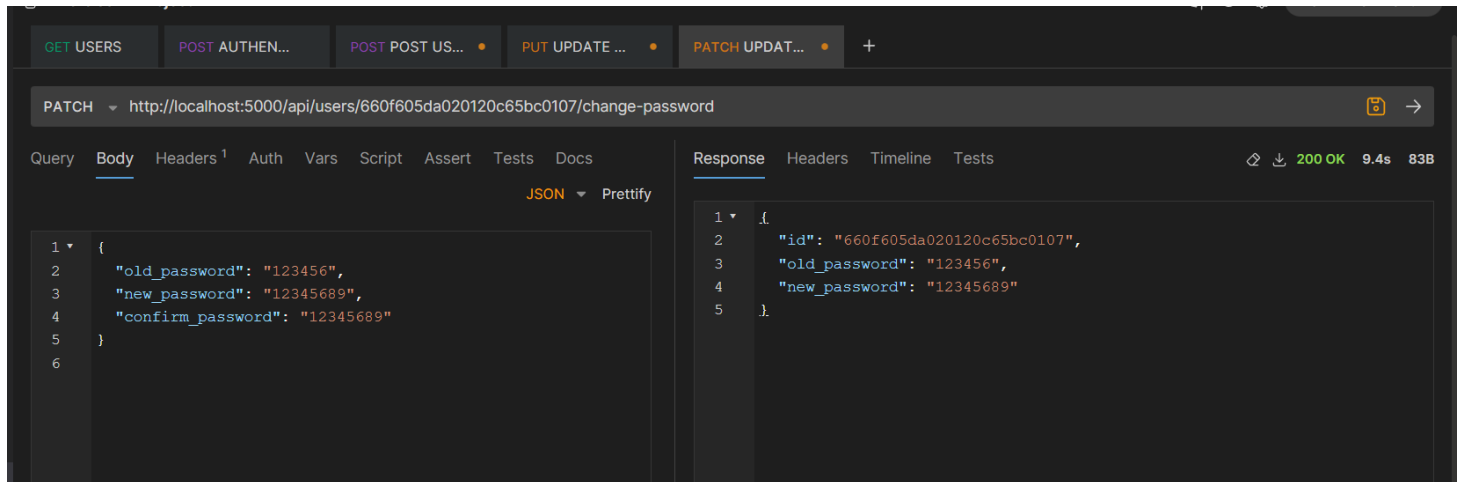


The screenshot shows a REST client interface with a PATCH request to `http://localhost:5000/api/users/660f605da020120c65bc0107/change-password`. The request body is a JSON object with `old_password`, `new_password`, and `confirm_password` fields. The response is a 403 Forbidden status with an error message: "Invalid Password (Confirm Password is Wrong!)"

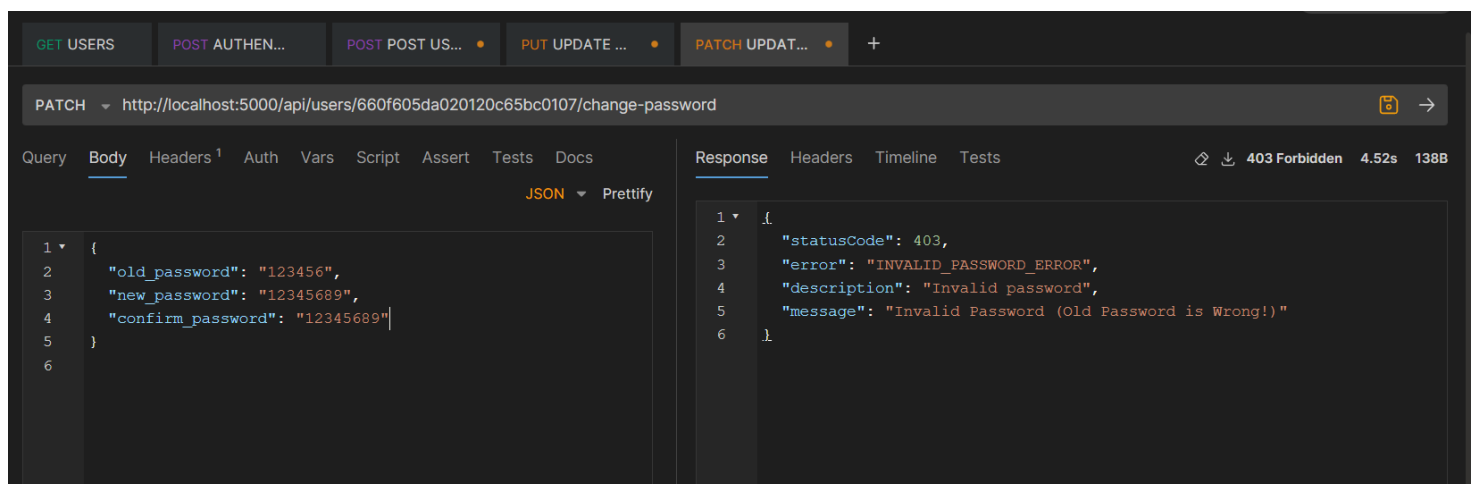
```
1 {
2   "old_password": "123456",
3   "new_password": "12345689",
4   "confirm_password": "1234568"
5 }
6
```

```
1 {
2   "statusCode": 403,
3   "error": "INVALID_PASSWORD_ERROR",
4   "description": "Invalid password",
5   "message": "Invalid Password (Confirm Password is Wrong!)"
6 }
```

Dan ketika semua kriteria terpenuhi, `old_password` benar dan `confirm_password` benar maka akan return di response `id`, `old_password` dan `new_password`nya yg akan jadi password sekarang ini



Buktinya adalah ketika body yg sama di send maka akan error karena passwordnya sudah terganti didalam databasenya



Dan ketika `old_password`nya menggunakan password yg barusan diganti (12345689) maka akan sukses

