Assignment 1: Setup and Test Report

1. Introduction

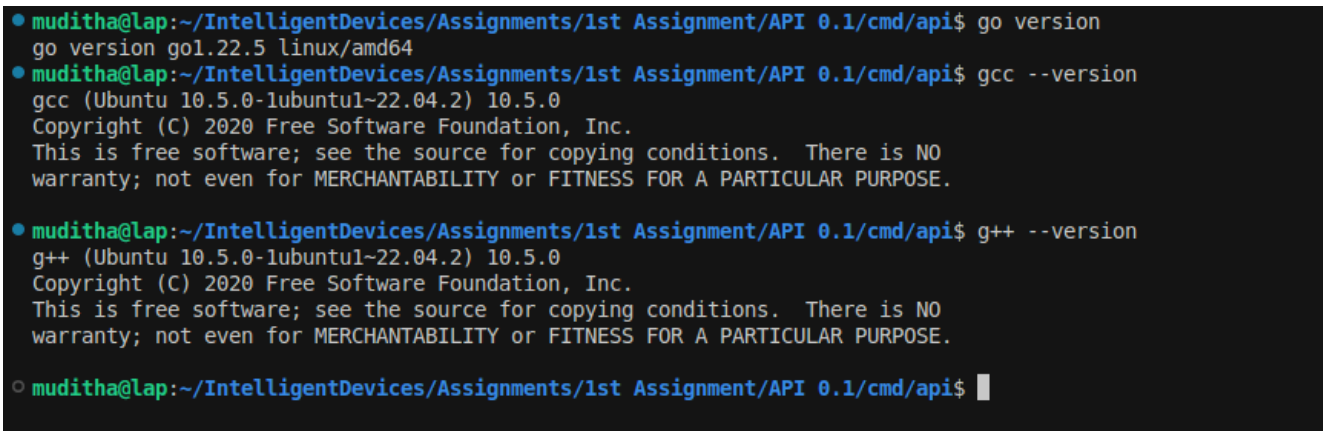
This report documents the setup process and testing results for Assignment 1. The goal is to ensure the environment is correctly configured and the API is functioning as expected.

2. Environment Setup

- **Operating System:** Linux
- **Programming Language:** Go
- **Project Structure:**
  - `API 0.1/`
  - `cmd/api/main.go`
  - `internal/api/handlers/`
  - `internal/api/middleware/`
  - `internal/api/repository/`
  - `internal/api/server/`
  - `internal/api/service/`

Steps:

1. Cloned the repository from the provided source.
2. Installed Go, mingw32-base, mingw32-gcc-g++ packages and verified the version.
3. Navigated to the project directory and ran `go mod tidy` to install dependencies.

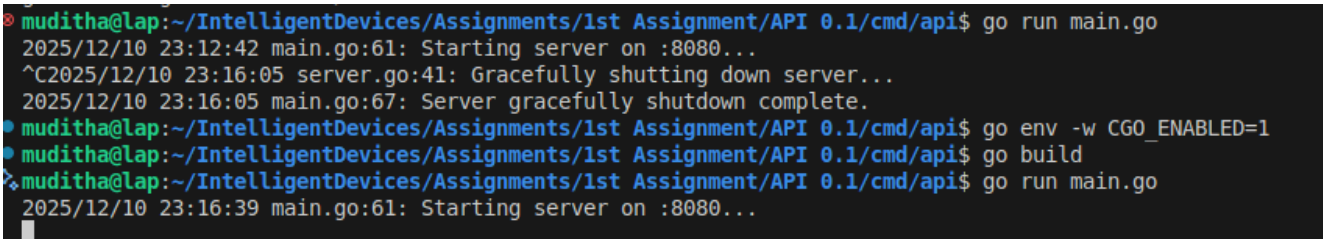


3. Running the API

- Navigated to `API 0.1/cmd/api/` .
- Ran the API server using:

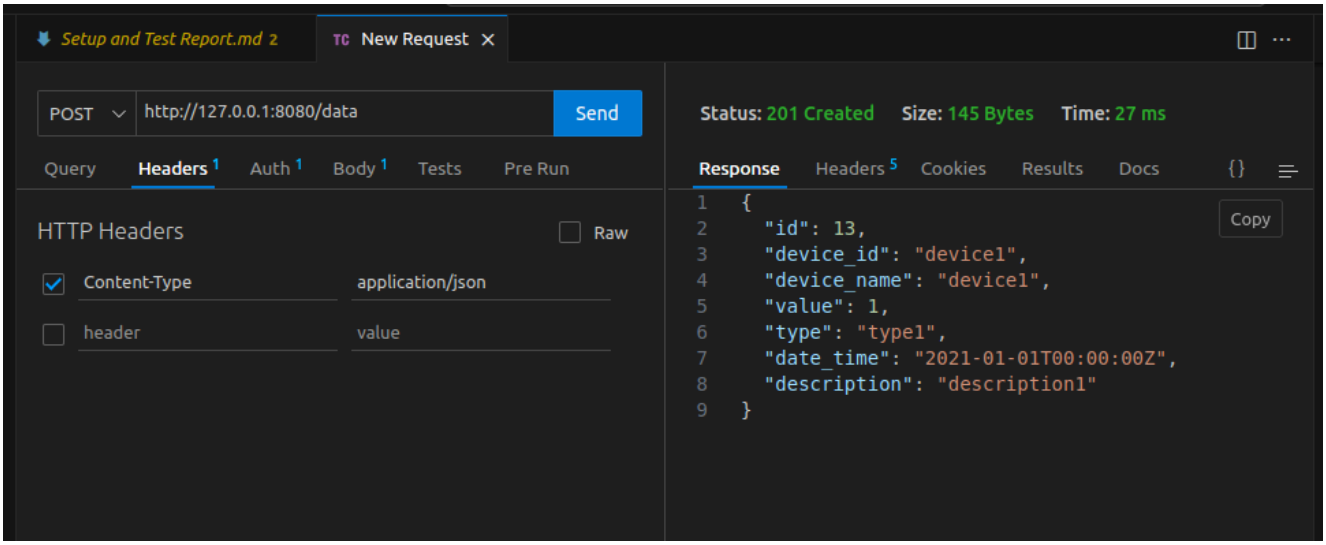
```
go run main.go
```

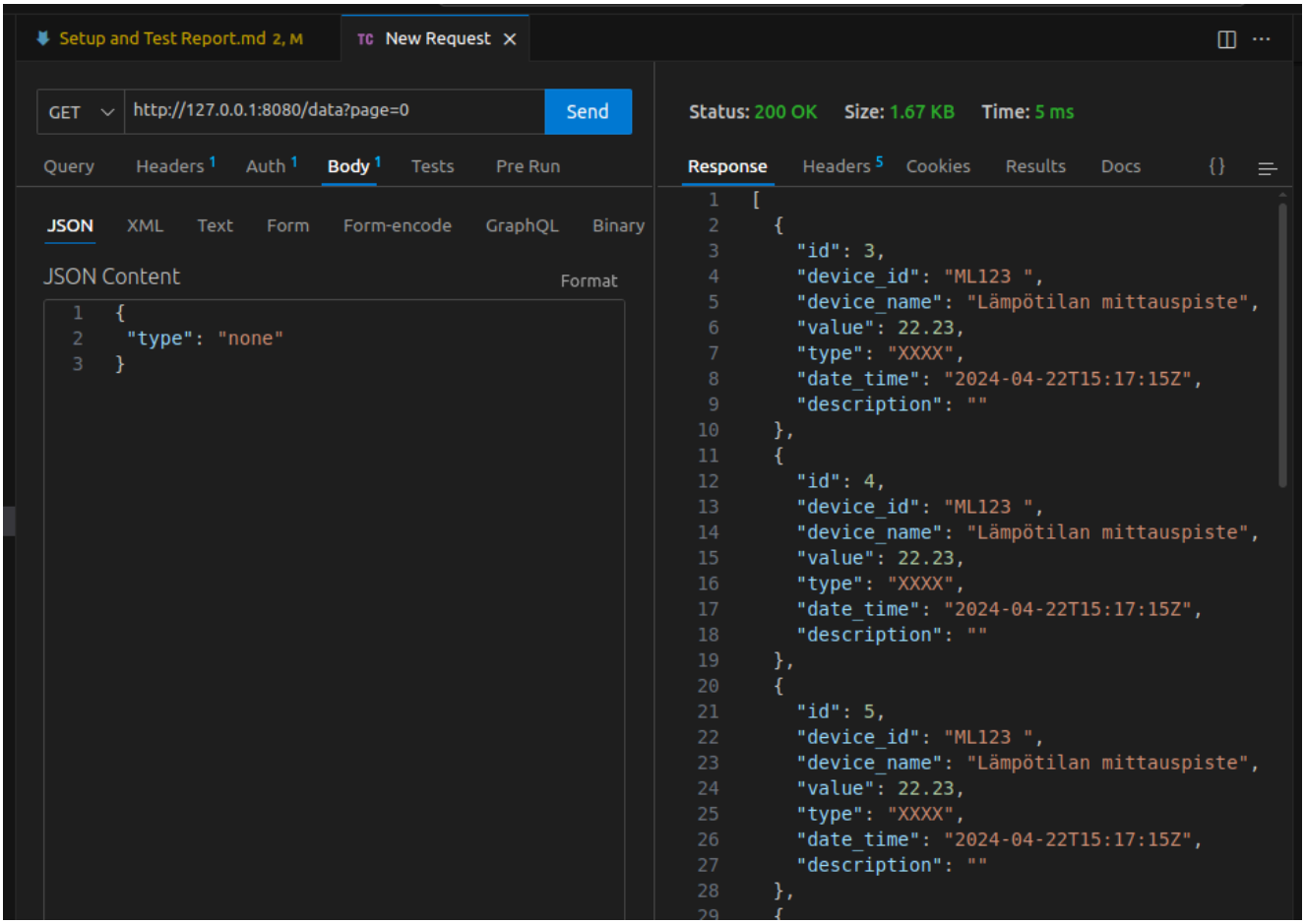
- Confirmed the server started successfully and was accessible at the expected endpoint.

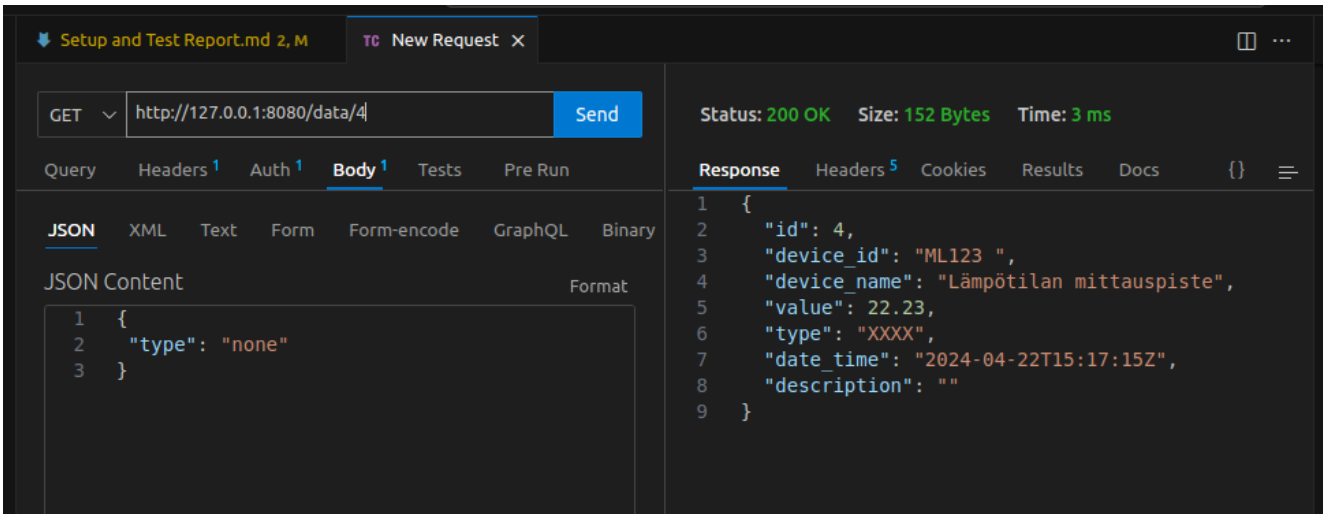


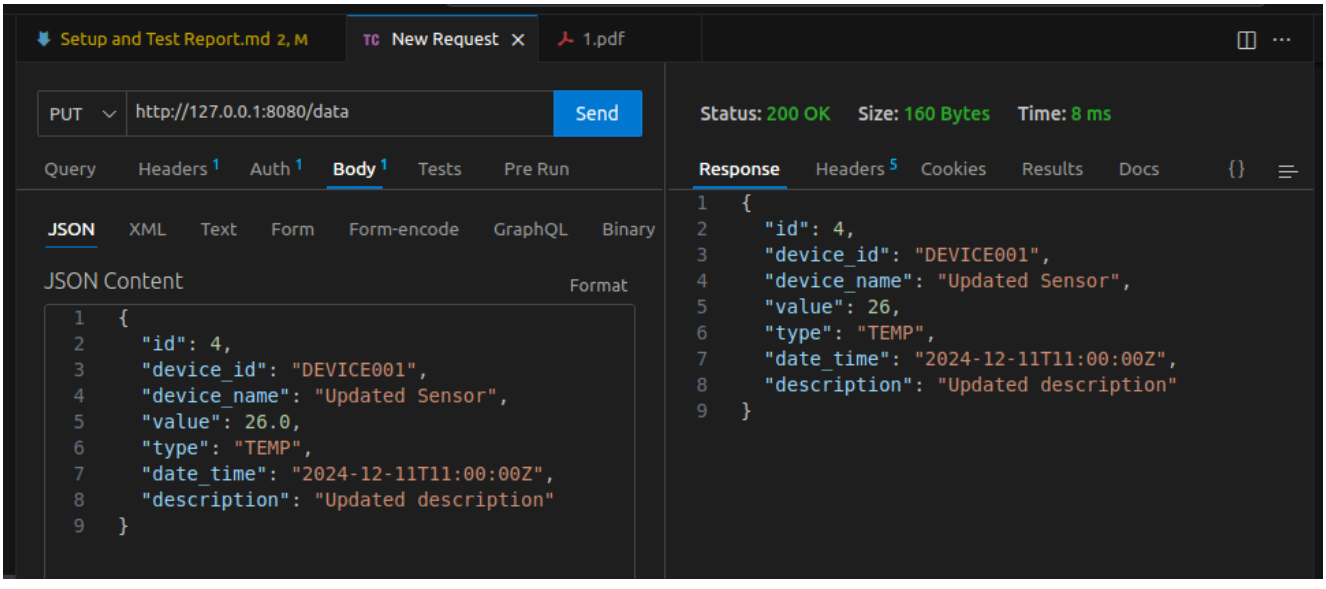
4. Testing

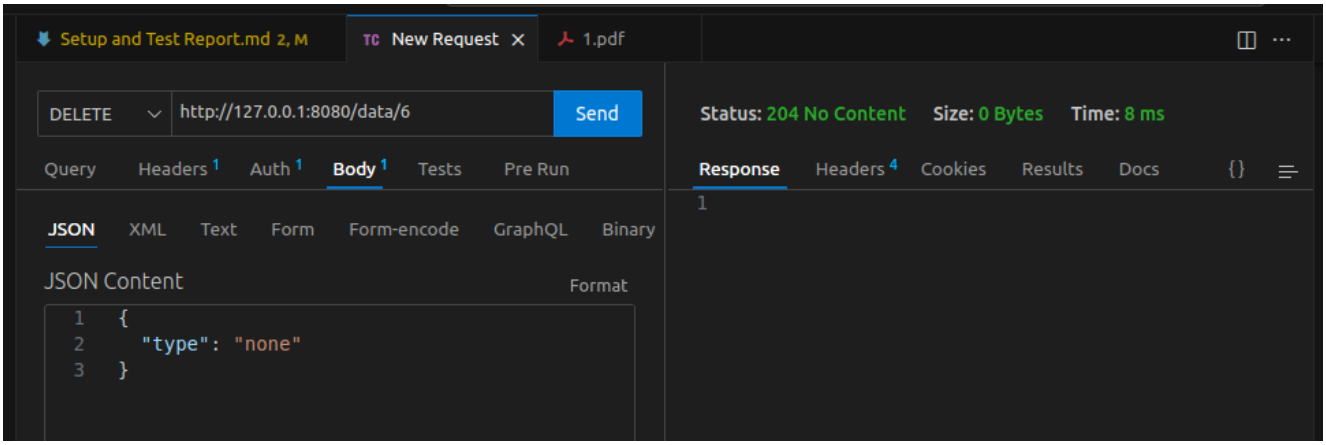
- API Test with Thunder Client




Setup and Test Report.md 2, M
New Request
GET
http://127.0.0.1:8080/data?page=0
Send
Status: 200 OK
Size: 1.67 KB
Time: 5 ms
Query
Headers 1
Auth 1
Body 1
Tests
Pre Run
Response
Headers 5
Cookies
Results
Docs
JSON
XML
Text
Form
Form-encode
GraphQL
Binary
JSON Content
Format
{
"type": "none"
}
[
{
"id": 3,
"device_id": "ML123 ",
"device_name": "Lämpötilan mittauspiste",
"value": 22.23,
"type": "XXXX",
"date_time": "2024-04-22T15:17:15Z",
"description": ""
},
{
"id": 4,
"device_id": "ML123 ",
"device_name": "Lämpötilan mittauspiste",
"value": 22.23,
"type": "XXXX",
"date_time": "2024-04-22T15:17:15Z",
"description": ""
},
{
"id": 5,
"device_id": "ML123 ",
"device_name": "Lämpötilan mittauspiste",
"value": 22.23,
"type": "XXXX",
"date_time": "2024-04-22T15:17:15Z",
"description": ""
},


Setup and Test Report.md 2, M
New Request
GET
http://127.0.0.1:8080/data/4
Send
Status: 200 OK
Size: 152 Bytes
Time: 3 ms
Query
Headers 1
Auth 1
Body 1
Tests
Pre Run
Response
Headers 5
Cookies
Results
Docs
JSON
XML
Text
Form
Form-encode
GraphQL
Binary
JSON Content
Format
{
"type": "none"
}
{
"id": 4,
"device_id": "ML123 ",
"device_name": "Lämpötilan mittauspiste",
"value": 22.23,
"type": "XXXX",
"date_time": "2024-04-22T15:17:15Z",
"description": ""
}


Setup and Test Report.md 2, M
New Request
1.pdf
PUT
http://127.0.0.1:8080/data
Send
Status: 200 OK
Size: 160 Bytes
Time: 8 ms
Query
Headers 1
Auth 1
Body 1
Tests
Pre Run
Response
Headers 5
Cookies
Results
Docs
JSON
XML
Text
Form
Form-encode
GraphQL
Binary
JSON Content
Format
{
"id": 4,
"device_id": "DEVICE001",
"device_name": "Updated Sensor",
"value": 26.0,
"type": "TEMP",
"date_time": "2024-12-11T11:00:00Z",
"description": "Updated description"
}
{
"id": 4,
"device_id": "DEVICE001",
"device_name": "Updated Sensor",
"value": 26,
"type": "TEMP",
"date_time": "2024-12-11T11:00:00Z",
"description": "Updated description"
}



5. Issues Encountered

- No major issues encountered during setup or testing.

6. Conclusion

The environment was set up successfully, and all tests passed. The API is ready for further development and integration.