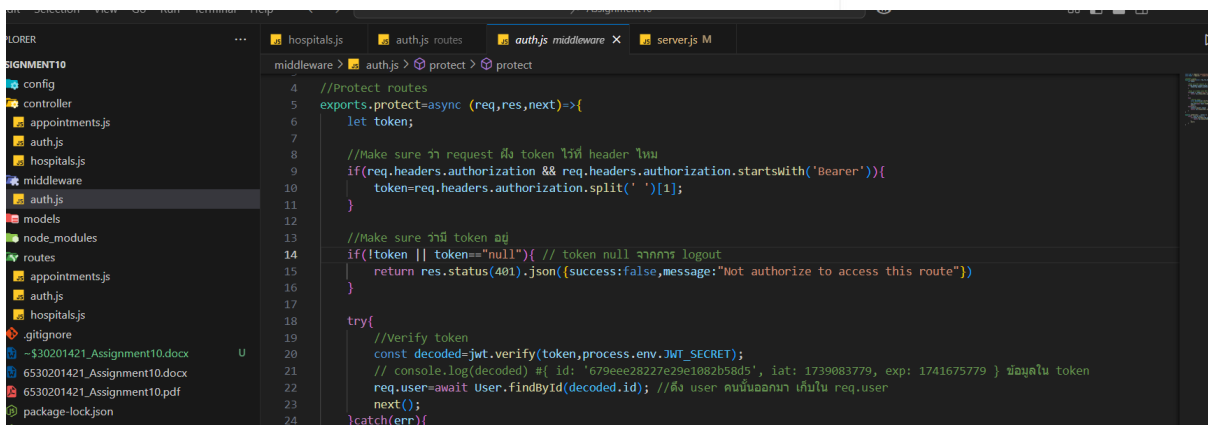
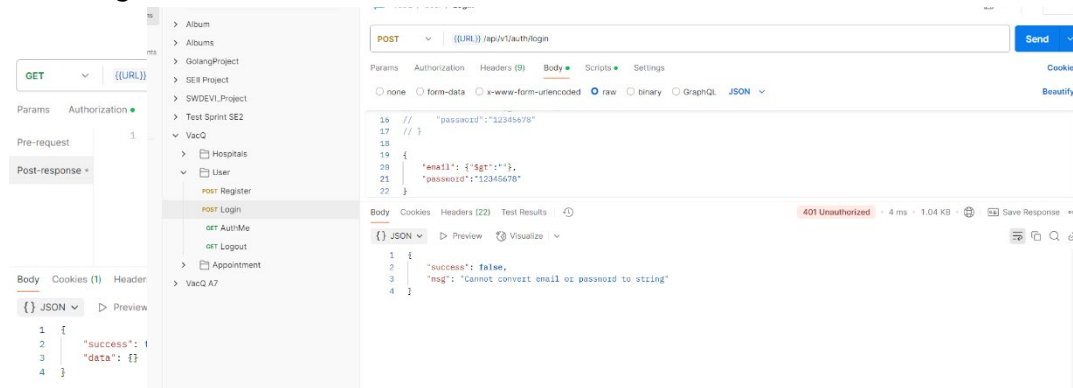


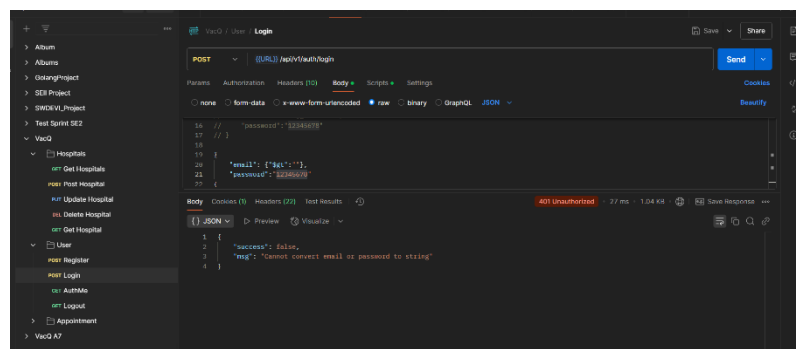
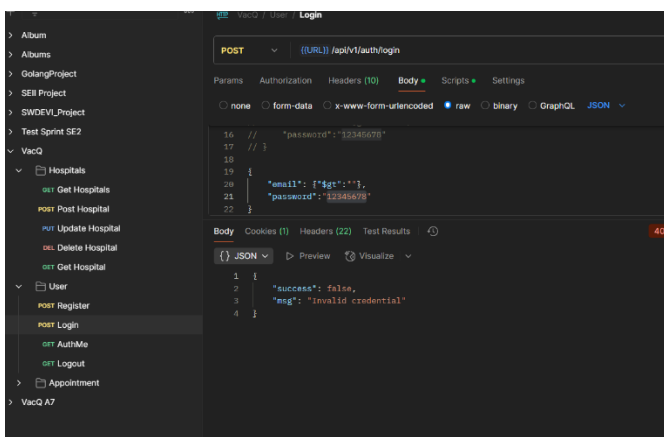
Security

1. Logout

หลัง Logout



2. SQL injection (Before-After)



3. Helmet

Before

The screenshot shows a Postman interface with a GET request to `{{URL}}/api/v1/auth/me`. The response status is **200 OK** with a response time of 75 ms and a body size of 512 B. The response headers are as follows:

Key	Value
X-Powered-By	Express
Access-Control-Allow-Origin	*
X-RateLimit-Limit	100
X-RateLimit-Remaining	96
Date	Sat, 29 Mar 2025 07:44:41 GMT
X-RateLimit-Reset	1743234864
Content-Type	application/json; charset=utf-8
Content-Length	162

After: Insert Helmet at server.js

The screenshot shows the same Postman interface, but now with a sidebar on the left displaying a project tree. The request is still `GET /api/v1/auth/me`, and the response status is **200 OK** with a response time of 98 ms and a body size of 1.13 KB. The response headers are significantly enhanced by Helmet:

Key	Value
Access-Control-Allow-Origin	*
Content-Security-Policy	default-src 'self';base-uri 'self';font-src 'self' https://data:;form-action 'self';frame-ancestor...
Cross-Origin-Opener-Policy	same-origin
Cross-Origin-Resource-Policy	same-origin
Origin-Agent-Cluster	?1
Referrer-Policy	no-referrer
Strict-Transport-Security	max-age=31536000; includeSubDomains
X-Content-Type-Options	nosniff

4. XSS (ก่อน-หลัง)

The screenshot shows a REST client interface with a sidebar on the left listing various API endpoints. The main panel displays a POST request to `[[URL]]/api/v1/hospitals`. The request body is a JSON object with the following fields:

```
1 {
2   "name": "{{randomCompanyName}} <script>alert(1)</script>",
3   "address": "Bangkok",
4   "district": "Pathuman",
5   "province": "Krunthep",
6   "postalcode": "10210",
7   "tel": "0982145268",
8 }
```

The response is a 201 status code, indicating a successful creation. The response body is a JSON object:

```
1 {
2   "success": true,
3   "data": {
4     "name": "Quigley Inc <script>alert(1)</script>",
5     "address": "Bangkok",
6     "district": "Pathuman",
7     "province": "Krunthep",
8     "postalcode": "10210",
9     "tel": "0982145268",
10    "region": "กรุงเทพมหานคร Bangkok",
11    "_id": "67ee52272a87c7cde4ee6be8",
12    "_v": 0,
13    "id": "67ee52272a87c7cde4ee6be8"
14  }
15 }
```

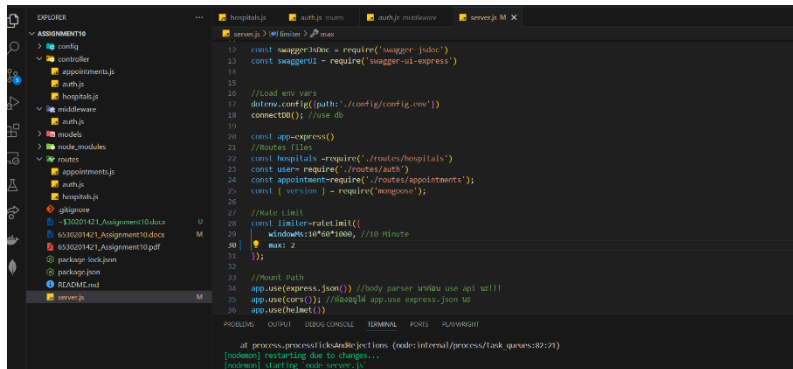
The screenshot shows a REST client interface with a sidebar on the left listing various API endpoints. The main panel displays a POST request to `[[URL]]/api/v1/hospitals`. The request body is a JSON object with the following fields:

```
1 {
2   "name": "{{randomCompanyName}} <script>alert(1)</script>",
3   "address": "Bangkok",
4   "district": "Pathuman",
5   "province": "Krunthep",
6   "postalcode": "10210",
7   "tel": "0982145268",
8 }
```

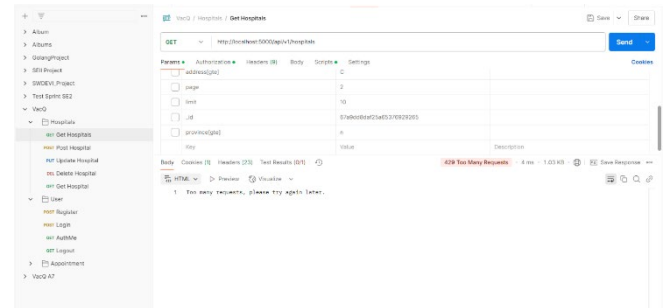
The response is a 201 status code, indicating a successful creation. The response body is a JSON object:

```
1 {
2   "success": true,
3   "data": {
4     "name": "Osinski, Bode and Runolfsdottir",
5     "address": "Bangkok",
6     "district": "Pathuman",
7     "province": "Krunthep",
8     "postalcode": "10210",
9     "tel": "0982145268",
10    "region": "กรุงเทพมหานคร Bangkok",
11    "_id": "67ee51cd15aa761a3a72615a",
12    "_v": 0,
13    "id": "67ee51cd15aa761a3a72615a"
14  }
15 }
```

5. Rate Limit

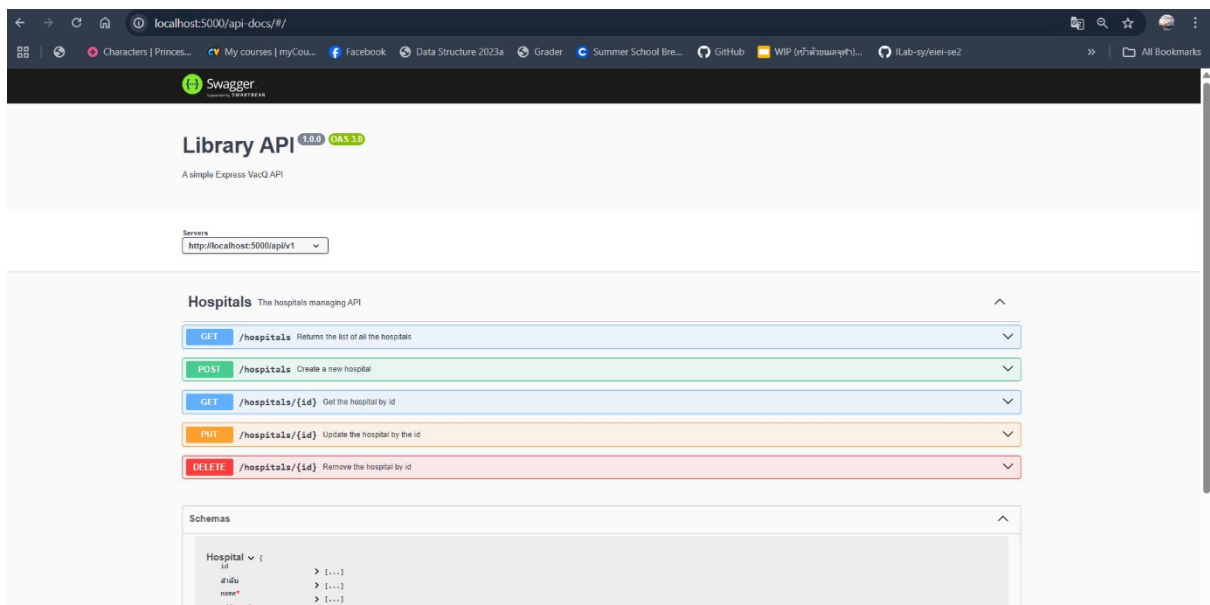


```
12 const swaggerJdoc = require('swagger-jdoc')
13 const swaggerUI = require('swagger-ui-express')
14
15
16 //Load env vars
17 dotenv.config({path: './config/config.env'})
18 connectDB(); //use db
19
20 const app = express()
21 //Routes files
22 const hospitals = require('./routes/hospitals')
23 const users = require('./routes/users')
24 const appointments = require('./routes/appointments');
25 const { version } = require('mongoose');
26
27 //Rate Limit
28 const limiter = rateLimit({
29   windowMs: 15 * 60 * 1000, //15 Minute
30   max: 2
31 });
32
33 //Mount Path
34 app.use(express.json()) //body parser and use api json
35 app.use(cors()); //allow all app use express json
36 app.use(helmet());
37
38 //Mount Path
39 app.use('/api-docs', swaggerJdoc.serve, swaggerUI.serve);
40
41 at process.processTicksAndRejections (node:internal/process/task_queues:95:5)
42 [nodemon] restarting due to changes...
43 [nodemon] starting 'npm start'...
```

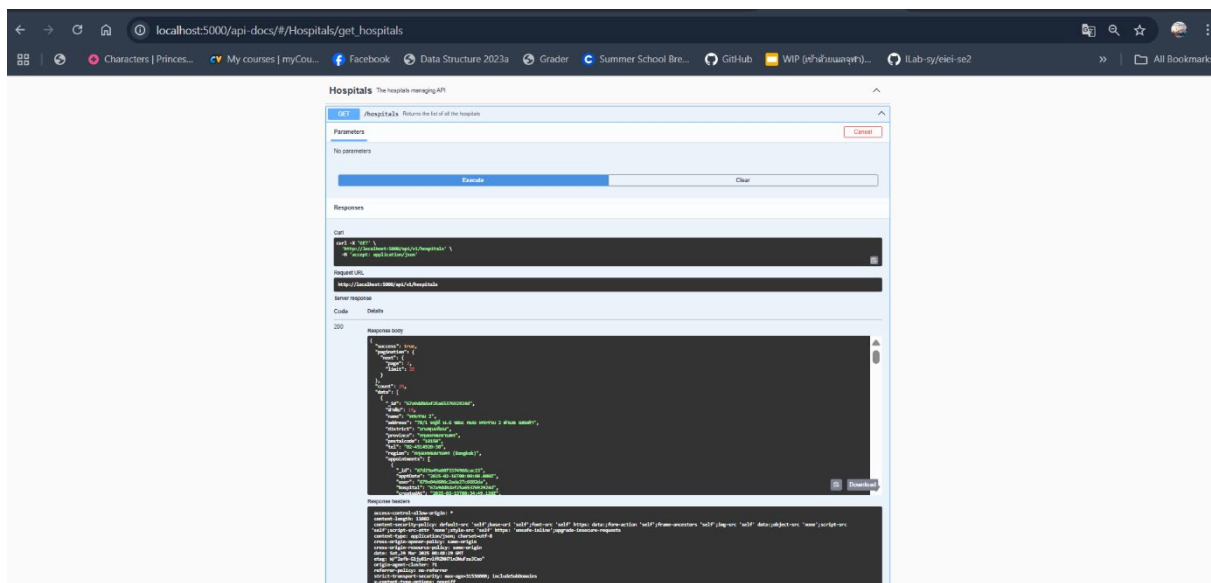


2. API Docs

Hospital API Docs



Get Hospitals Executions



GITHUB URL: <https://github.com/pok1220/SW-DEV-I-Assignment10>