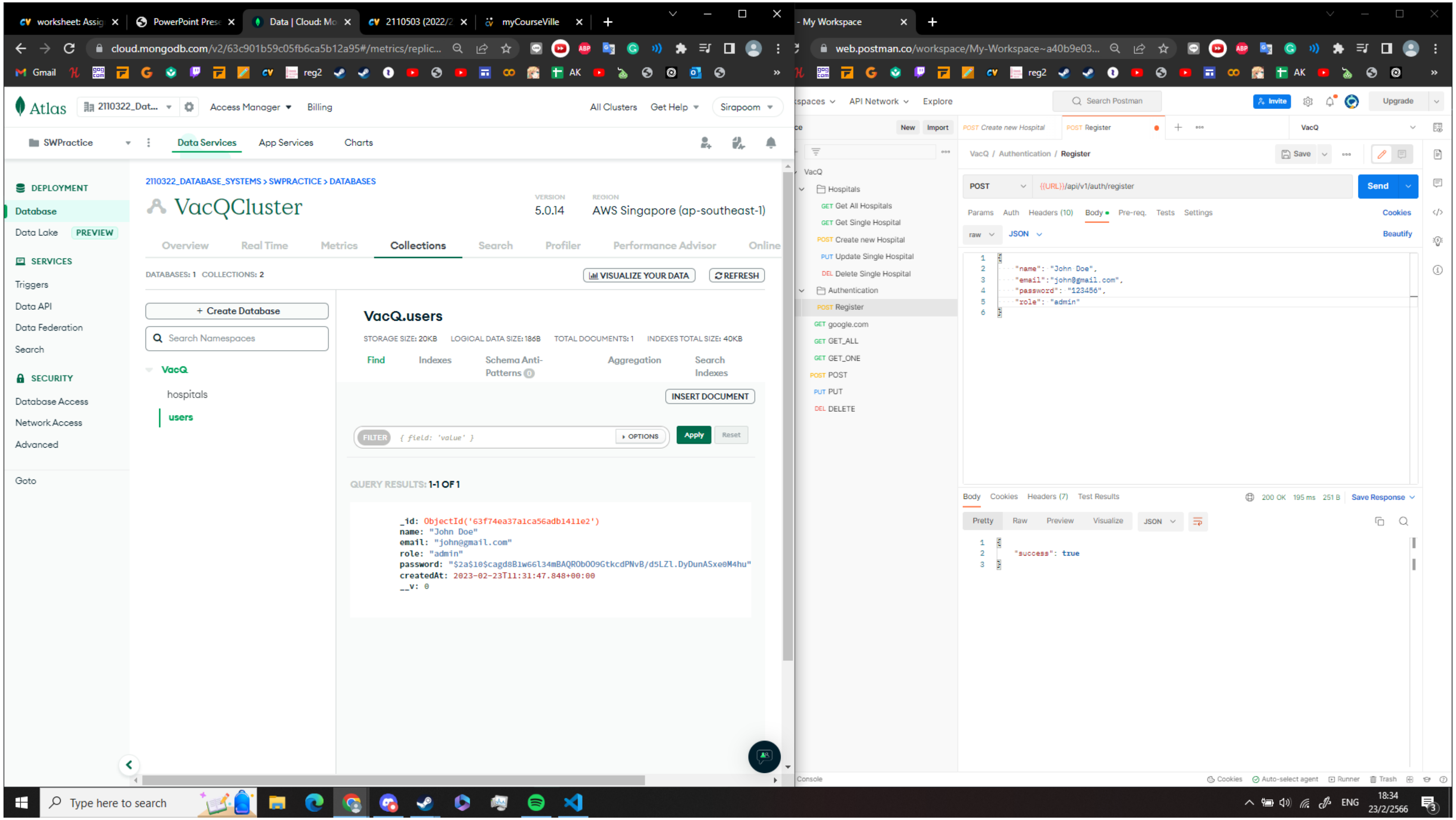
Sirapoom Leesuravanich 6330539421

https://github.com/SirapoomL/2110503_2022_2_SW_DEV_PRAC_VACQ/tree/ass6

1 Capture your Postman & MongoDB Atlas Screens to show the register process. An example is in Slide#11. Please include your computer date/time in all captured pictures



```
_id: ObjectId('63f74ea37a1ca56adb1411e2')
name: "John Doe"
email: "john@gmail.com"
role: "admin"
password: "$2a$10$cagd8B1w66l34mBAQRObOO9GtkcdPNvB/d5LZl.DyDunASxe0M4hu"
createdAt: 2023-02-23T11:31:47.848+00:00
__v: 0
```

POST {{URL}}/api/v1/auth/register

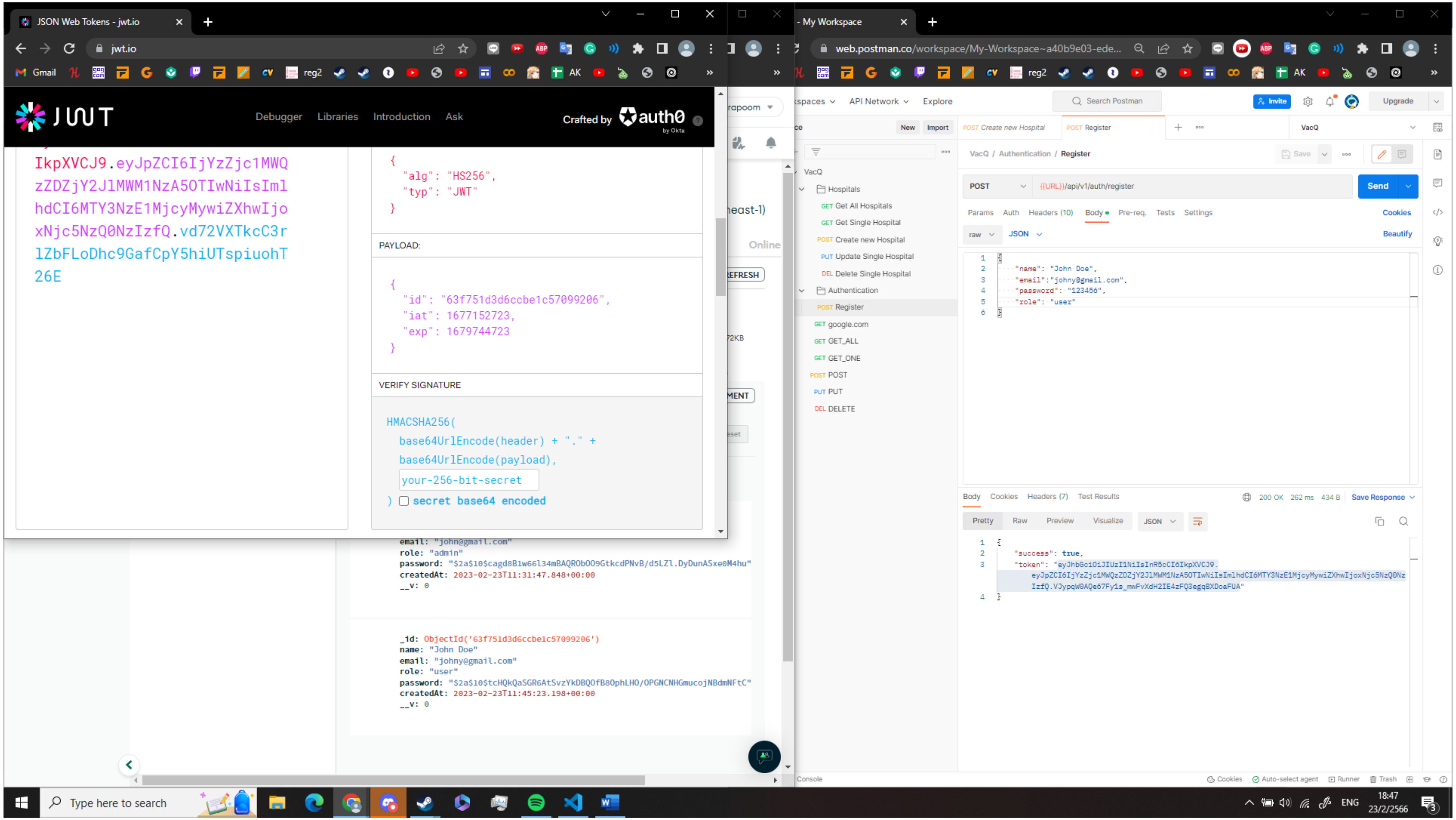
```
{
    "name": "John Doe",
    "email":"john@gmail.com",
    "password": "123456",
    "role": "admin"
}
```

200 OK 195 ms 251 B

```
{
    "success": true
}
```

18:34 23/2/2566

2 Capture your Postman Screen after a register request with a token in the response. An example is in Slide#19.



```
IkpXVCJ9.eyJpZCI6IjYzZjc1MWQ
zZDZjY2J1MWM1NzA5OTIwNiIsIml
hdCI6MTY3NzE1MjcyMywiZXhwIjo
xNjc5NzQ0NzIzfQ.vd72VXTkcC3r
lZbFLoDhc9GafCpY5hiUTspiuohT
26E
```

```
{
  "alg": "HS256",
  "typ": "JWT"
}
```

PAYLOAD:

```
{
  "id": "63f751d3d6ccbe1c57099206",
  "iat": 1677152723,
  "exp": 1679744723
}
```

VERIFY SIGNATURE

```
HMACSHA256(
  base64UrlEncode(header) + "." +
  base64UrlEncode(payload),
  your-256-bit-secret
) □ secret base64 encoded
```

```
email: "john@gmail.com"
role: "admin"
password: "$2a$10$cagd8B1w66l34mBAQRObOO9GtkcdPNvB/d5LZl.DyDunASxe0M4hu"
createdAt: 2023-02-23T11:31:47.848+00:00
__v: 0

_id: ObjectId('63f751d3d6ccbe1c57099206')
name: "John Doe"
email: "johny@gmail.com"
role: "user"
password: "$2a$10$tcHQkQaSGR6AtSvzYkDBQOfB8OphLHO/OPGNCNHGmucojNBdmNFtC"
createdAt: 2023-02-23T11:45:23.198+00:00
__v: 0
```

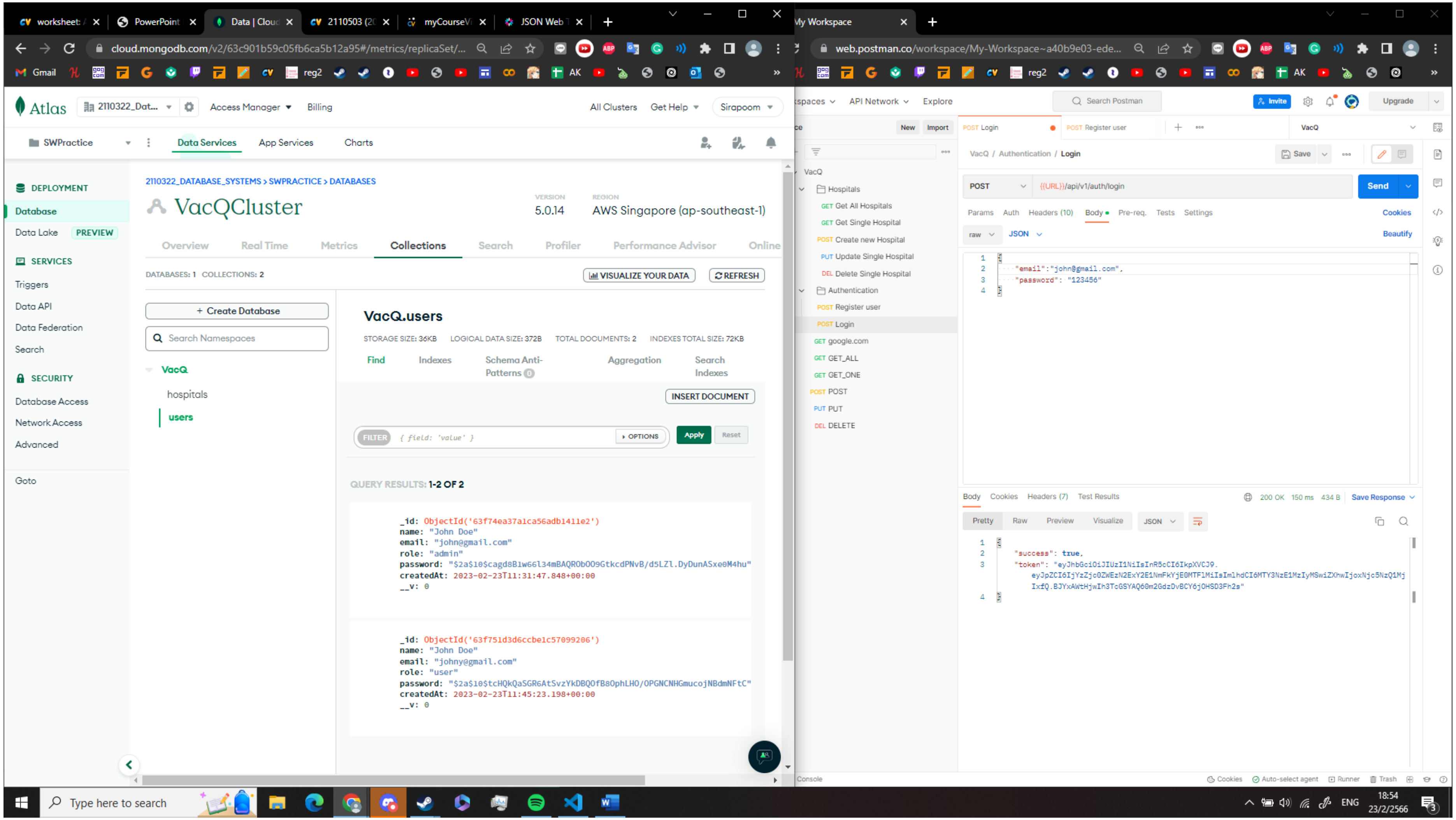
POST {{URL}}/api/v1/auth/register

```
{
    "name": "John Doe",
    "email":"johny@gmail.com",
    "password": "123456",
    "role": "user"
}
```

```
{
    "success": true,
    "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
        eyJpZCI6IjYzZjc1MWQzZDZjY2J1MWM1NzA5OTIwNiIsImlhdCI6MTY3NzE1MjcyMywiZXhwIjoxNjc5NzQ0Nz
        IzfQ.VJypqW0AQe67Fy1s_mwFvXdH2IE4zFQ3egqBXDoaFUA"
}
```

Sirapoom Leesuravanich 6330539421

3 Capture your Postman Screen after a login request with token in the response. An example is in Slide#24.



2110322_DATABASE_SYSTEMS > SWPRACTICE > DATABASES

VacQCluster

VERSION 5.0.14 REGION AWS Singapore (ap-southeast-1)

DATABASES: 1 COLLECTIONS: 2

VacQ.users

STORAGE SIZE: 36KB LOGICAL DATA SIZE: 372B TOTAL DOCUMENTS: 2 INDEXES TOTAL SIZE: 72KB

QUERY RESULTS: 1-2 OF 2

```
_id: ObjectId('63f74ea37a1ca56adb1411e2')
name: "John Doe"
email: "john@gmail.com"
role: "admin"
password: "$2a$10$cagd8B1w66l34mBAQRObOO9GtkcdPNvB/d5LZl.DyDunASxe0M4hu"
createdAt: 2023-02-23T11:31:47.848+00:00
__v: 0
```

```
_id: ObjectId('63f751d3d6ccbe1c57099206')
name: "John Doe"
email: "johny@gmail.com"
role: "user"
password: "$2a$10$tcHQkQaSGR6AtSvzYkDBQOfB8OphLHO/OPGNCNHGmucojNBdmNFtC"
createdAt: 2023-02-23T11:45:23.198+00:00
__v: 0
```

VacQ / Authentication / Login

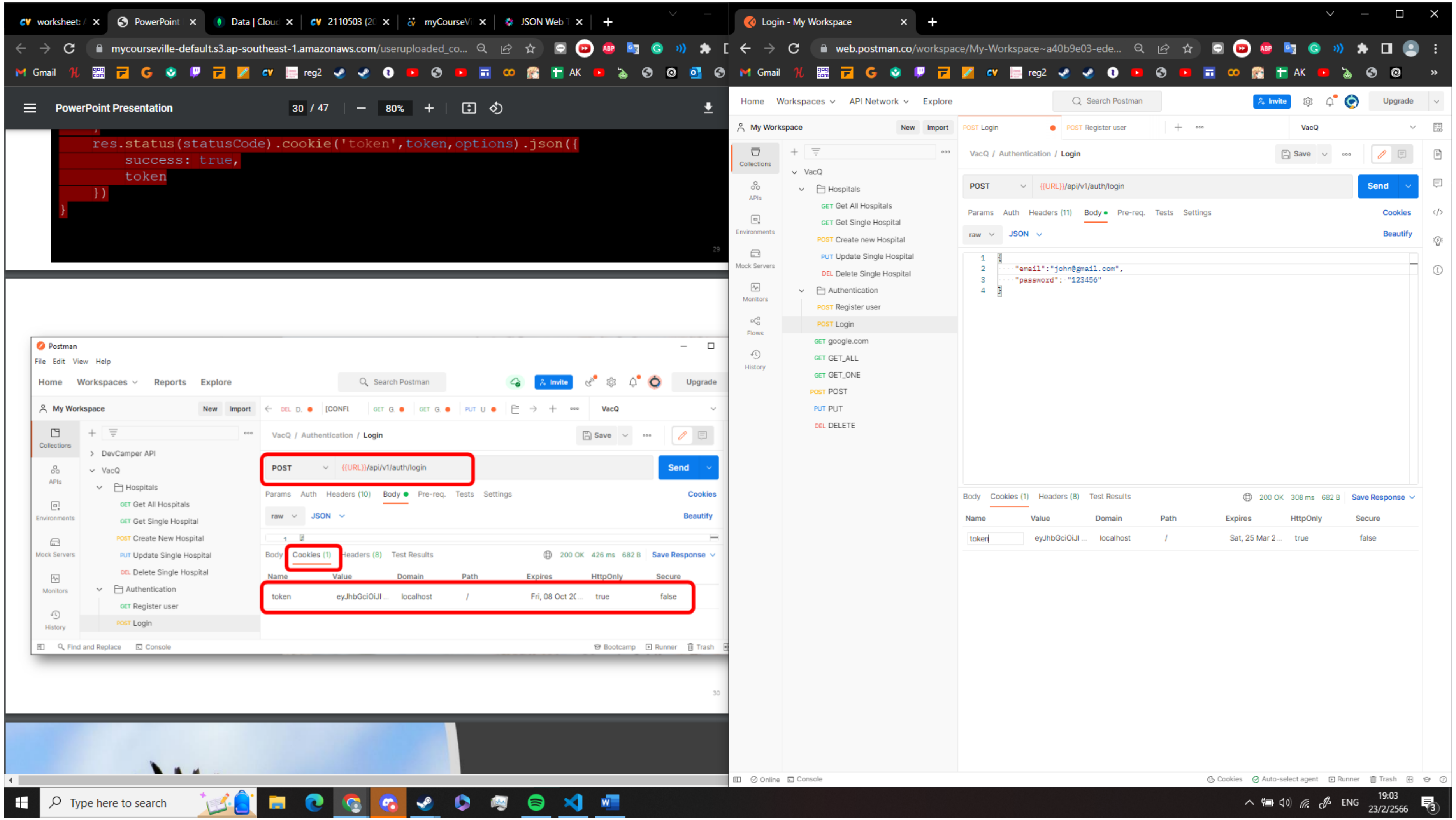
POST {{URL}}/api/v1/auth/login

```
{
    "email":"john@gmail.com",
    "password": "123456"
}
```

Response: 200 OK 150 ms 434 B

```
{
    "success": true,
    "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
        eyJpZCI6IjYzZjc0ZWEzN2ExY2E1NmFkYjE0MTFlMiIsImlhdCI6MTY3NzE1MzIyMSwiZXhwIjoxNjc5NzQ1MjIxfQ.BJYxAWtHjwIh3TcGSYAQ60m2GdzDvBCY6jOHSD3Fh2s"
}
```

4 Capture your Postman Screen after a login request with Cookie in the response. An example is in Slide#30.



PowerPoint Presentation 30 / 47 80%

```
    res.status(statusCode).cookie('token',token,options).json({
        success: true,
        token
    })
}
```

VacQ / Authentication / Login

POST {{URL}}/api/v1/auth/login

Params Auth Headers (10) Body Pre-req. Tests Settings — raw JSON

Body Cookies (1) Headers (8) Test Results — 200 OK 426 ms 682 B

| Name | Value | Domain | Path | Expires | HttpOnly | Secure |
|---|---|---|---|---|---|---|
| token | eyJhbGciOiJI ... | localhost | / | Fri, 08 Oct 2( ... | true | false |

Login - My Workspace — web.postman.co/workspace/My-Workspace~a40b9e03-ede...

VacQ / Authentication / Login

POST {{URL}}/api/v1/auth/login

Params Auth Headers (11) Body Pre-req. Tests Settings — raw JSON

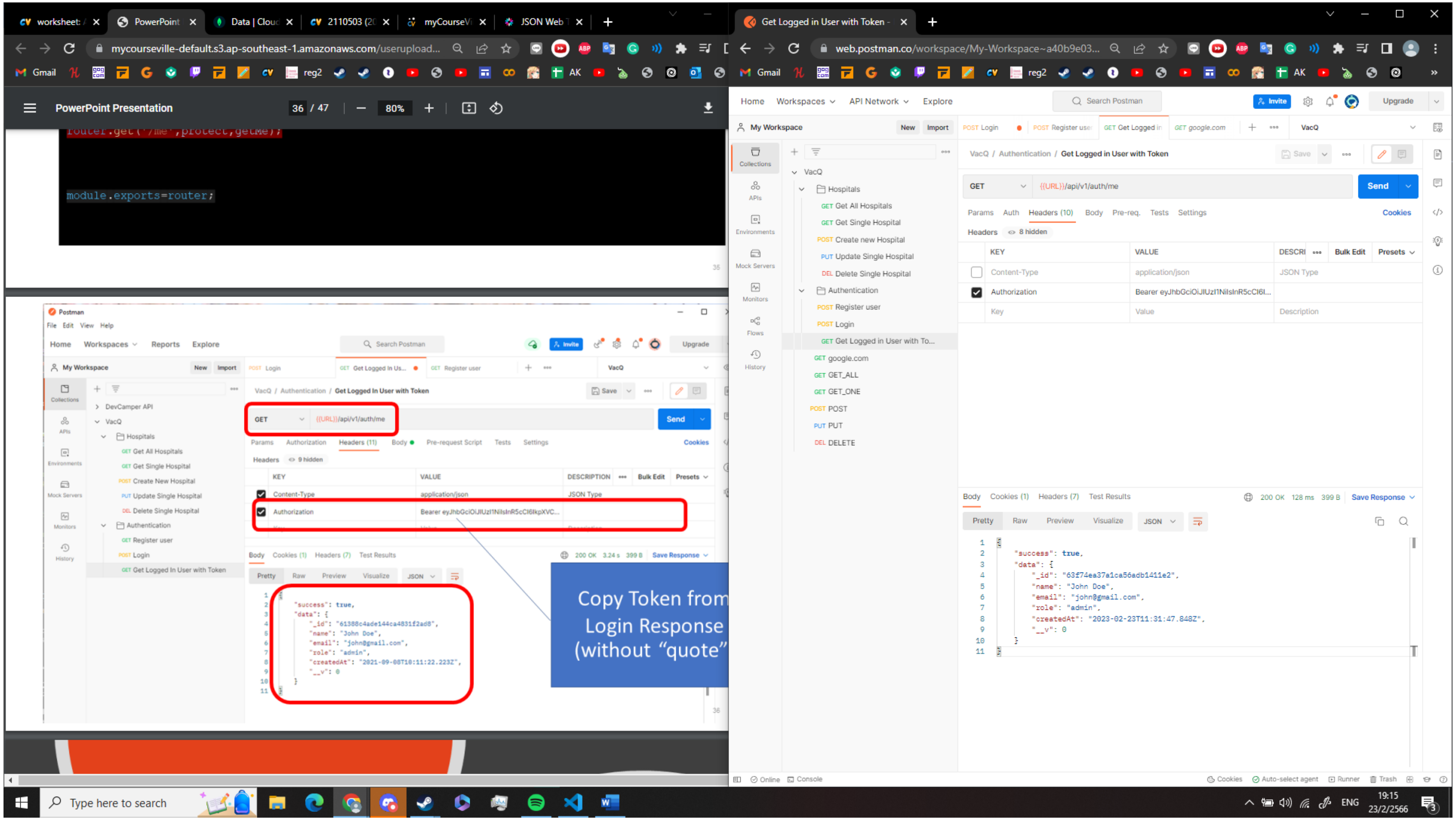
```
{
    "email":"john@gmail.com",
    "password": "123456"
}
```

Body Cookies (1) Headers (8) Test Results — 200 OK 308 ms 682 B

| Name | Value | Domain | Path | Expires | HttpOnly | Secure |
|---|---|---|---|---|---|---|
| token | eyJhbGciOiJI ... | localhost | / | Sat, 25 Mar 2 ... | true | false |

Sirapoom Leesuravanich 6330539421

5 Capture your Postman Screen after an auth/me request with user data in the response. An example is in Slide#36.



```
router.get('/me',protect,getMe);

module.exports=router;
```

Copy Token from Login Response (without "quote"

VacQ / Authentication / Get Logged In User with Token

GET {{URL}}/api/v1/auth/me

VacQ
- Hospitals
  - GET Get All Hospitals
  - GET Get Single Hospital
  - POST Create new Hospital
  - PUT Update Single Hospital
  - DEL Delete Single Hospital
- Authentication
  - POST Register user
  - POST Login
  - GET Get Logged in User with To...
- GET google.com
- GET GET_ALL
- GET GET_ONE
- POST POST
- PUT PUT
- DEL DELETE

Headers ⊙ 8 hidden

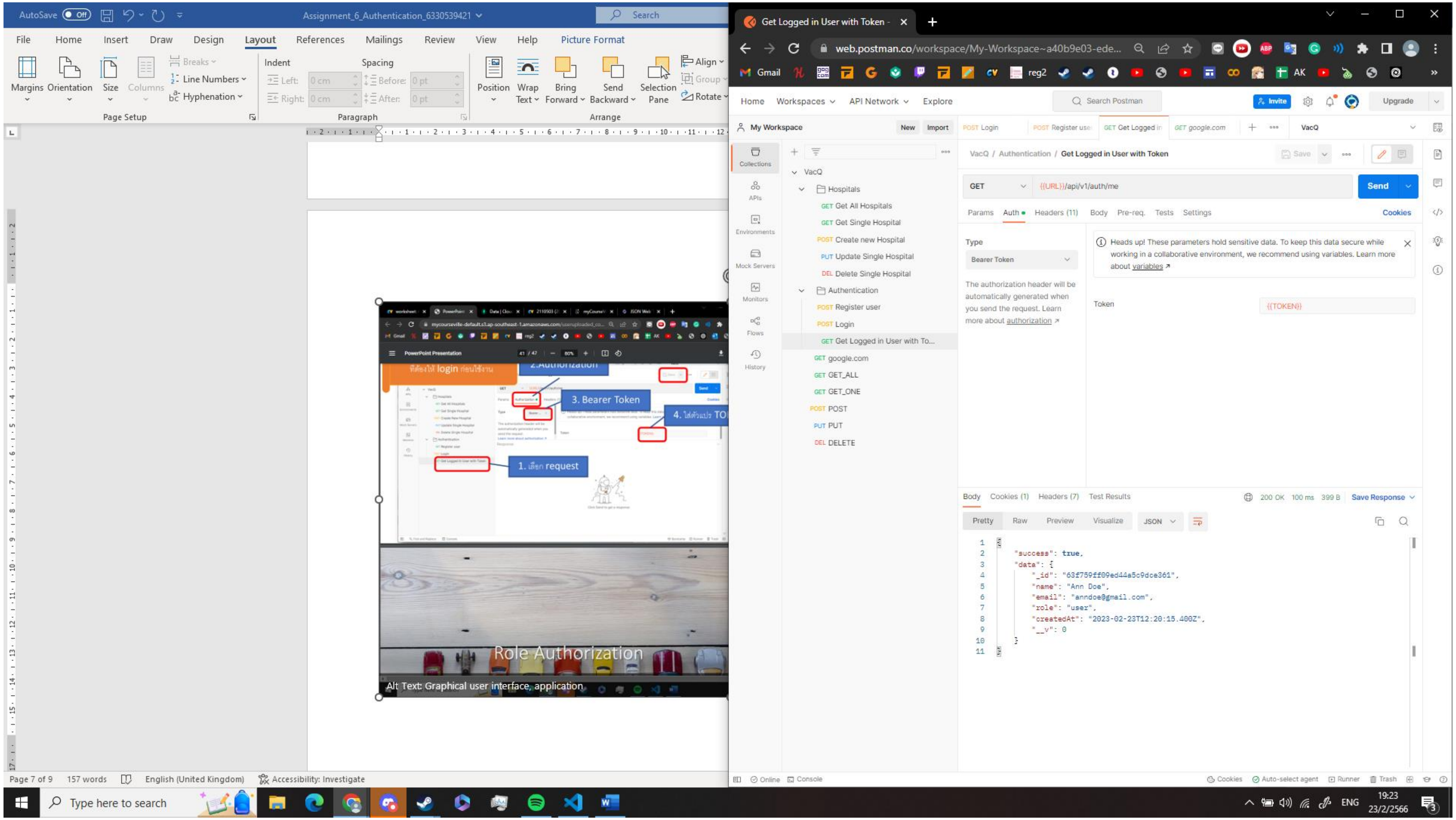
| | KEY | VALUE | DESCRI |
|---|---|---|---|
| □ | Content-Type | application/json | JSON Type |
| ☑ | Authorization | Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6I... | |
| | Key | Value | Description |

Body Cookies (1) Headers (7) Test Results 200 OK 128 ms 399 B

```
{
    "success": true,
    "data": {
        "_id": "63f74ea37a1ca56adb1411e2",
        "name": "John Doe",
        "email": "john@gmail.com",
        "role": "admin",
        "createdAt": "2023-02-23T11:31:47.848Z",
        "__v": 0
    }
}
```

6 Capture your Postman Screens after an auth/me request with and without a value in the token. An example is in Slide#41, but with a response.

with value in token



VacQ / Authentication / Get Logged in User with Token

GET {{URL}}/api/v1/auth/me

Type: Bearer Token

The authorization header will be automatically generated when you send the request. Learn more about authorization ↗

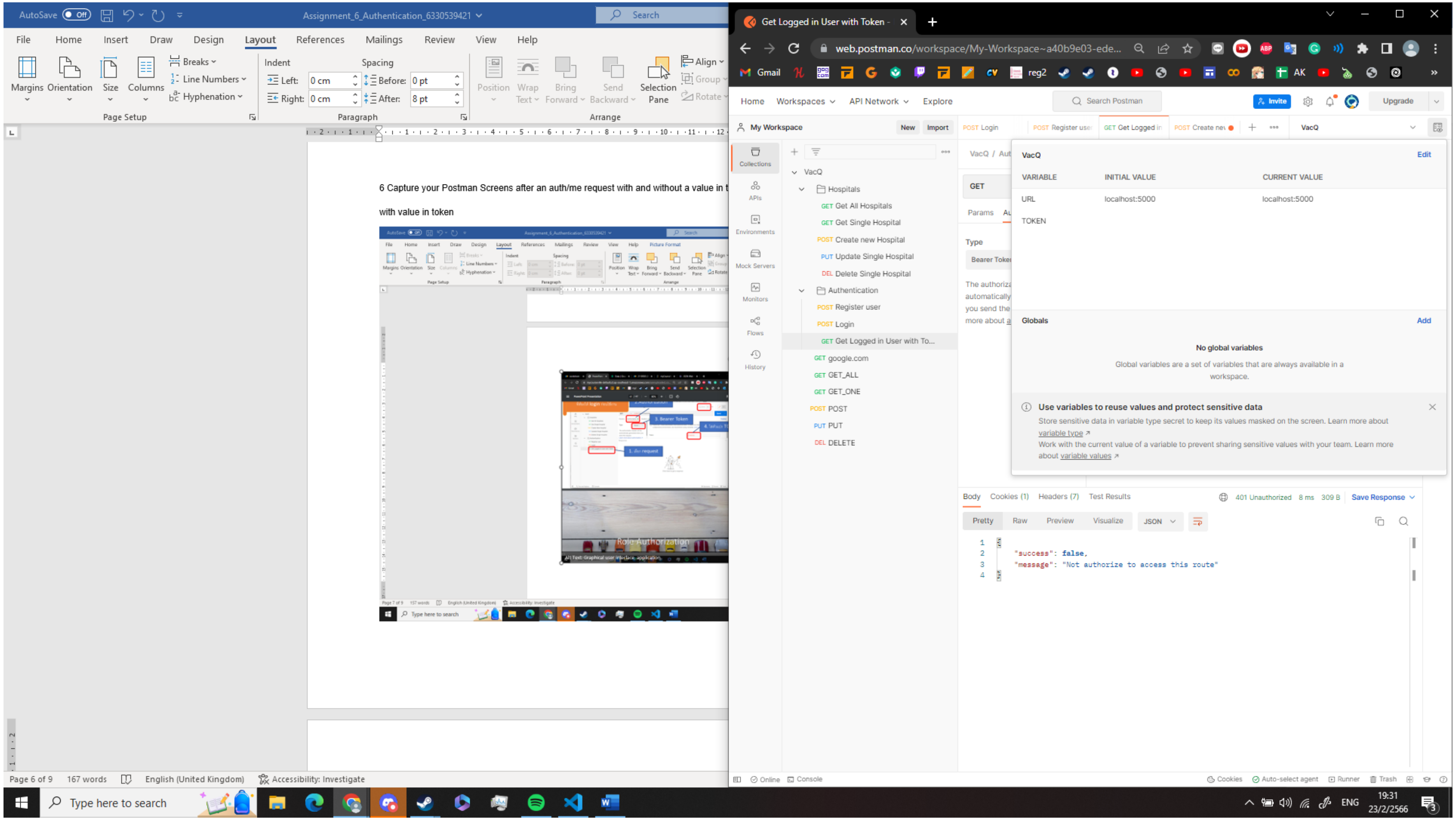
Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about variables ↗

Token: {{TOKEN}}

200 OK 100 ms 399 B

```
{
    "success": true,
    "data": {
        "_id": "63f759ff09ed44a5c9dce361",
        "name": "Ann Doe",
        "email": "anndoe@gmail.com",
        "role": "user",
        "createdAt": "2023-02-23T12:20:15.400Z",
        "__v": 0
    }
}
```

Sirapoom Leesuravanich 6330539421



Assignment_6_Authentication_6330539421
File Home Insert Draw Design Layout References Mailings Review View Help
Margins Orientation Size Columns Breaks Line Numbers Hyphenation
Page Setup
Indent Left: 0 cm Right: 0 cm
Spacing Before: 0 pt After: 8 pt
Paragraph
Position Wrap Text Bring Forward Send Backward Selection Pane Align Group Rotate
Arrange
Page 6 of 9 167 words English (United Kingdom) Accessibility: Investigate
Get Logged in User with Token -
web.postman.co/workspace/My-Workspace~a40b9e03-ede...
Home Workspaces API Network Explore
Search Postman
Invite Upgrade
My Workspace New Import
POST Login POST Register user GET Get Logged in POST Create new
VacQ
Collections APIs Environments Mock Servers Monitors Flows History
VacQ
Hospitals
GET Get All Hospitals
GET Get Single Hospital
POST Create new Hospital
PUT Update Single Hospital
DEL Delete Single Hospital
Authentication
POST Register user
POST Login
GET Get Logged in User with To...
GET google.com
GET GET_ALL
GET GET_ONE
POST POST
PUT PUT
DEL DELETE
VacQ / Aut
GET
Params Au
Type
Bearer Toke
Edit
Add
Body Cookies (1) Headers (7) Test Results
401 Unauthorized 8 ms 309 B
Save Response
Pretty Raw Preview Visualize JSON
Online Console
Cookies Auto-select agent Runner Trash
Type here to search
ENG 19:31 23/2/2566

6 Capture your Postman Screens after an auth/me request with and without a value in t

with value in token

VacQ

| VARIABLE | INITIAL VALUE | CURRENT VALUE |
|---|---|---|
| URL | localhost:5000 | localhost:5000 |
| TOKEN | | |

Globals

No global variables

Global variables are a set of variables that are always available in a workspace.

Use variables to reuse values and protect sensitive data

Store sensitive data in variable type secret to keep its values masked on the screen. Learn more about variable type ↗

Work with the current value of a variable to prevent sharing sensitive values with your team. Learn more about variable values ↗

The authoriza automatically you send the more about a

```
{
    "success": false,
    "message": "Not authorize to access this route"
}
```

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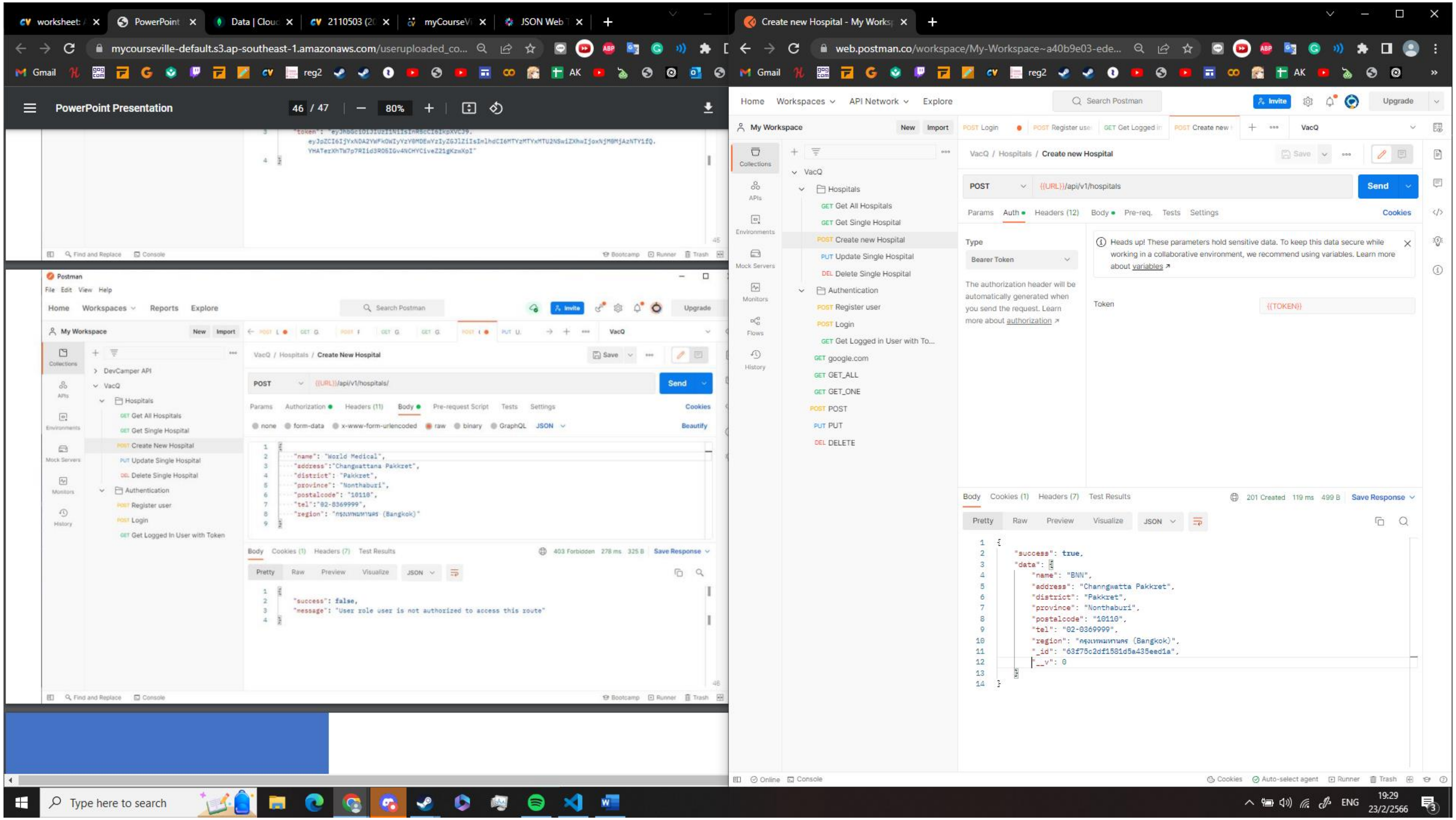
7 Capture your Postman Screen after ***Create New Hospital*** request with an admin token and another one with a user token. An example is in Slide#47.

with admin token



VacQ / Hospitals / Create New Hospital

POST {{URL}}/api/v1/hospitals/

```
{
    "name": "World Medical",
    "address":"Changwattana Pakkret",
    "district": "Pakkret",
    "province": "Nonthaburi",
    "postalcode": "10110",
    "tel":"02-8369999",
    "region": "กรุงเทพมหานคร (Bangkok)"
}
```

403 Forbidden 278 ms 325 B

```
{
    "success": false,
    "message": "User role user is not authorized to access this route"
}
```

VacQ / Hospitals / Create new Hospital

POST {{URL}}/api/v1/hospitals

Type: Bearer Token

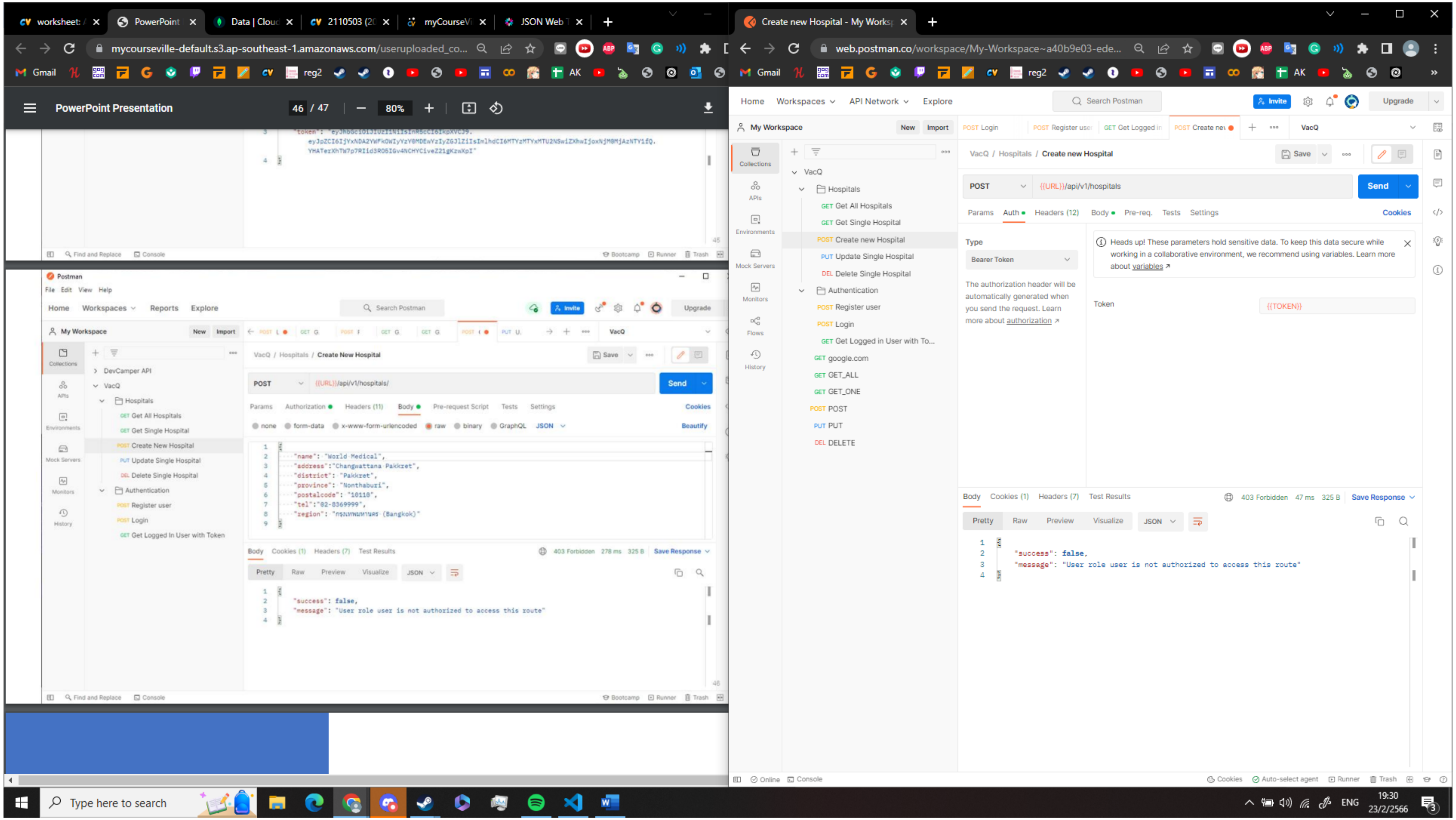
Token: {{TOKEN}}

201 Created 119 ms 499 B

```
{
    "success": true,
    "data": {
        "name": "BNN",
        "address": "Channgwatta Pakkret",
        "district": "Pakkret",
        "province": "Nonthaburi",
        "postalcode": "10110",
        "tel": "02-0369999",
        "region": "กรุงเทพมหานคร (Bangkok)",
        "_id": "63f75c2df1581d5a435eed1a",
        "__v": 0
    }
}
```

Sirapoom Leesuravanich 6330539421

with user token



PowerPoint Presentation 46 / 47 80%

VacQ / Hospitals / Create New Hospital

POST {{URL}}/api/v1/hospitals/

Params Authorization Headers (11) Body Pre-request Script Tests Settings

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
{
    "name": "World Medical",
    "address":"Changwattana Pakkret",
    "district": "Pakkret",
    "province": "Nonthaburi",
    "postalcode": "10110",
    "tel":"02-8369999",
    "region": "กรุงเทพมหานคร (Bangkok)"
}
```

403 Forbidden 278 ms 325 B

```
{
    "success": false,
    "message": "User role user is not authorized to access this route"
}
```

VacQ / Hospitals / Create new Hospital

POST {{URL}}/api/v1/hospitals

Params Auth Headers (12) Body Pre-req. Tests Settings

Type Bearer Token

The authorization header will be automatically generated when you send the request. Learn more about authorization ↗

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about variables ↗

Token {{TOKEN}}

403 Forbidden 47 ms 325 B

```
{
    "success": false,
    "message": "User role user is not authorized to access this route"
}
```

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8 Your GitHub link to your code.

https://github.com/SirapoomL/2110503_2022_2_SW_DEV_PRAC_VACQ/tree/ass6