Institute of Technology of Cambodia

Department of Information and Communication Engineering

Assignment TP09

TP09: VueJS, NodeJS Authentication (Continue)

Group: I4 GIC(C)

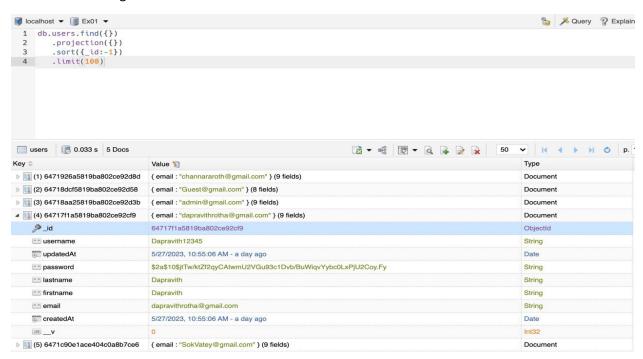| Lecturers	Subjects
HOK TIN	TP Internet-Programming II(IP)
Student's Name:	ID
ROTHA DAPRAVITH	e20190915

Academic Year: 2022 ~ 2023

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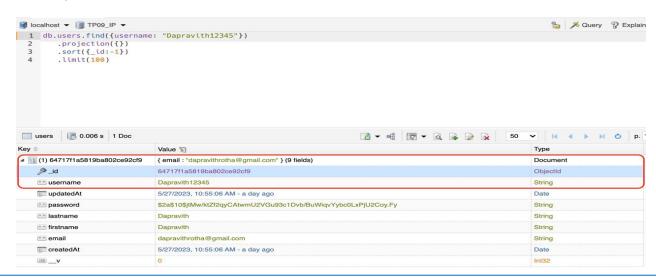GitHub's Repository: https://github.com/Dapravith/TP_Internet_Programming/tree/TP09

TP09.1: NodeJS (Mongo Database)

Ex1: For the previous authentication APIs, replace your user.json storage by a Nosql database, mongoose
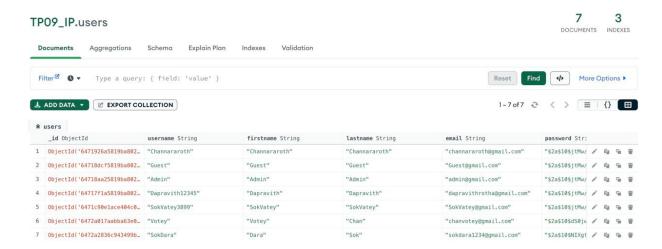
- Result of Exercise1:
- Connect to Mongo DB

```
localhost ▾  📄 Ex01 ▾                                                    📋   🔨 Query  ❓ Explain
1  db.users.find({})
2    .projection({})
3    .sort({_id:-1})
4    .limit(100)
```

Key	Value	Type
▷ 🔲 (1) 6471926a5819ba802ce92d8d	{ email : "channararoth@gmail.com" } (9 fields)	Document
▷ 🔲 (2) 64718dcf5819ba802ce92d58	{ email : "Guest@gmail.com" } (8 fields)	Document
▷ 🔲 (3) 64718aa25819ba802ce92d3b	{ email : "admin@gmail.com" } (9 fields)	Document
▲ 🔲 (4) 64717f1a5819ba802ce92cf9	{ email : "dapravithrotha@gmail.com" } (9 fields)	Document
🔑 _id	64717f1a5819ba802ce92cf9	ObjectId
username	Dapravith12345	String
updatedAt	5/27/2023, 10:55:06 AM - a day ago	Date
password	$2a$10$jtTw/ktZf2qyCAtwmU2VGu93c1Dvb/BuWiqvYybc0LxPjU2Coy.Fy	String
lastname	Dapravith	String
firstname	Dapravith	String
email	dapravithrotha@gmail.com	String
createdAt	5/27/2023, 10:55:06 AM - a day ago	Date
__v	0	Int32
▷ 🔲 (5) 6471c90e1ace404c0a8b7ce6	{ email : "SokVatey@gmail.com" } (9 fields)	Document

- Find specific username

```
localhost ▾  📄 TP09_IP ▾                                                 📋   🔨 Query  ❓ Explain
1  db.users.find({username: "Dapravith12345"})
2    .projection({})
3    .sort({_id:-1})
4    .limit(100)
```

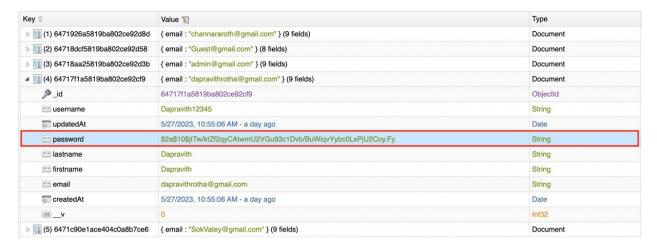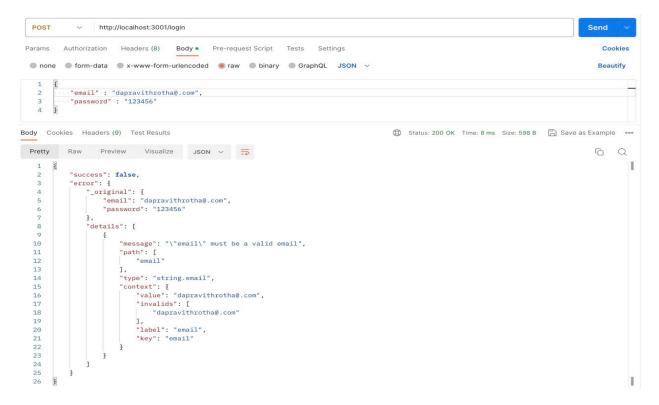| Key	Value	Type
▲ 🔲 (1) 64717f1a5819ba802ce92cf9	{ email : "dapravithrotha@gmail.com" } (9 fields)	Document
🔑 _id	64717f1a5819ba802ce92cf9	ObjectId
username	Dapravith12345	String
updatedAt	5/27/2023, 10:55:06 AM - a day ago	Date
password	$2a$10$jtMw/ktZf2qyCAtwmU2VGu93c1Dvb/BuWiqvYybc0LxPjU2Coy.Fy	String
lastname	Dapravith	String
firstname	Dapravith	String
email	dapravithrotha@gmail.com	String
createdAt	5/27/2023, 10:55:06 AM - a day ago	Date
__v	0	Int32

- List data in MongoDB

TP09.2: NodeJS (Authentication Implementation)

Ex2: Implement the authentication with the password encryption and request validation middleware.
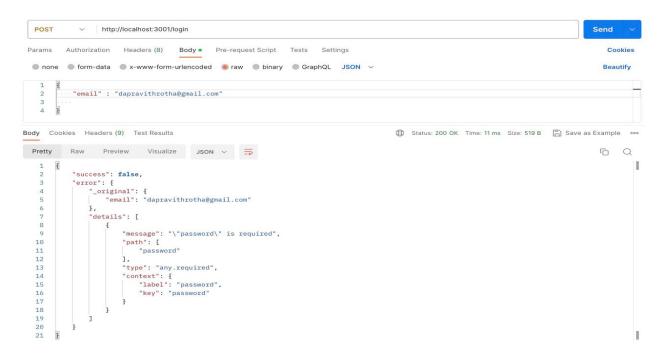
- Result of Ex02:

- Encrypted user accounts

- Request valid Email
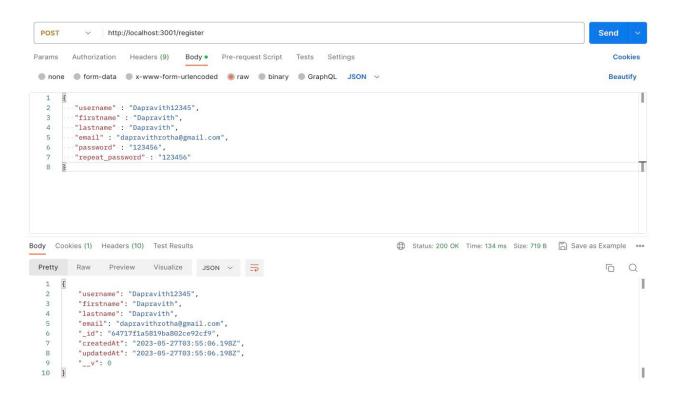

- Request valid Password
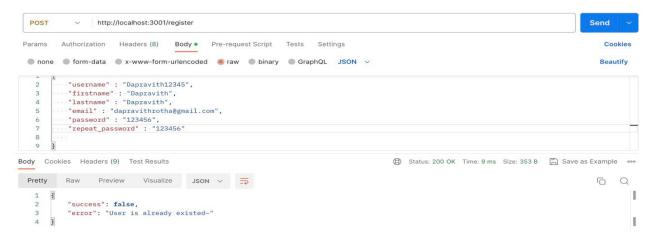
TP09.3: NodeJS (Token, Cookie)

Ex3: Create a token of an authenticated user and store it in the cookie for ensuring the authorized user. The token validation method must be a middleware function.
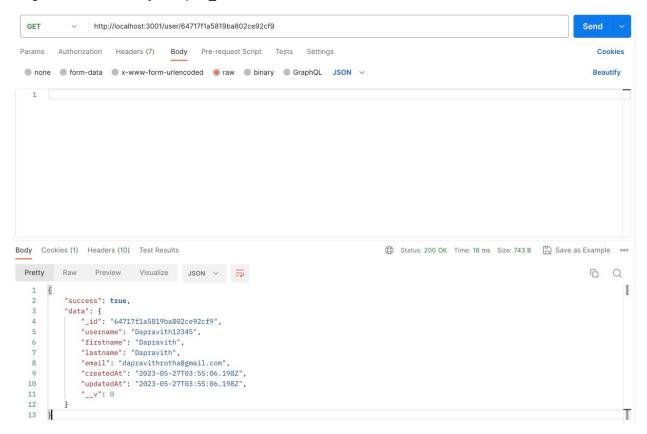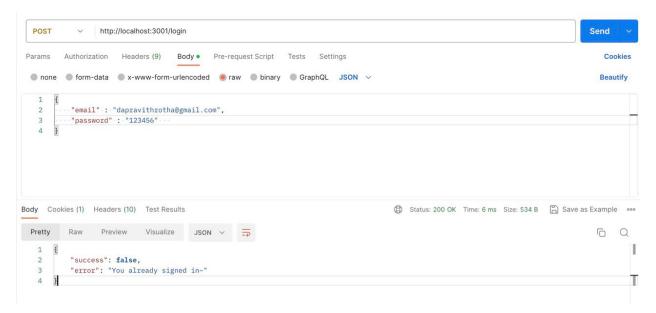
Result of Ex3:

- Register User Account
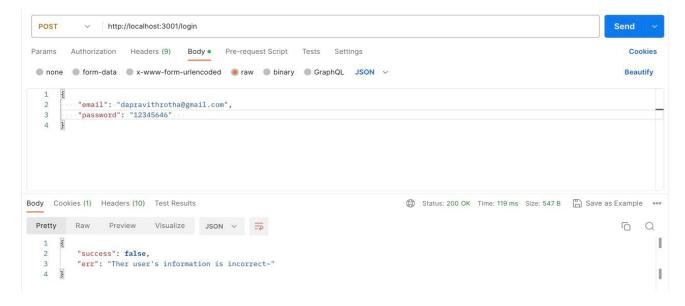

- Register user account if user already existed
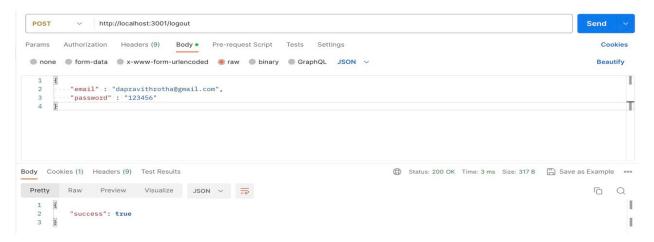
- login to user account just input _id:

- login already signed in

- Invalid login

POST ∨ | http://localhost:3001/login | **Send** ∨

Params   Authorization   Headers (9)   Body ●   Pre-request Script   Tests   Settings   **Cookies**

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

```
1  {
2      "email": "dapravithrotha@gmail.com",
3      "password": "12345646"
4  }
```

Body   Cookies (1)   Headers (10)   Test Results   ⊕ Status: 200 OK Time: 119 ms Size: 547 B   🖫 Save as Example •••

Pretty   Raw   Preview   Visualize   JSON ∨ ⇥

```
1  {
2      "success": false,
3      "err": "Ther user's information is incorrect~"
4  }
```

- Logout

POST ∨ | http://localhost:3001/logout | **Send** ∨

Params   Authorization   Headers (9)   Body ●   Pre-request Script   Tests   Settings   **Cookies**

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

```
1  {
2      "email" : "dapravithrotha@gmail.com",
3      "password" : "123456"
4  }
```

Body   Cookies (1)   Headers (9)   Test Results   ⊕ Status: 200 OK Time: 3 ms Size: 317 B   🖫 Save as Example •••

Pretty   Raw   Preview   Visualize   JSON ∨ ⇥

```
1  {
2      "success": true
3  }
```

- Re-Logout

POST ∨ | http://localhost:3001/logout | **Send** ∨

Params   Authorization   Headers (9)   Body ●   Pre-request Script   Tests   Settings   **Cookies**

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

```
1  {
2      "email" : "dapravithrotha@gmail.com",
3      "password" : "123456"
4  }
```

Body   Cookies (1)   Headers (10)   Test Results   ⊕ Status: 200 OK Time: 12 ms Size: 529 B   🖫 Save as Example •••

Pretty   Raw   Preview   Visualize   JSON ∨ ⇥

```
1  {
2      "success": false,
3      "error": "You must sign In~"
4  }
```