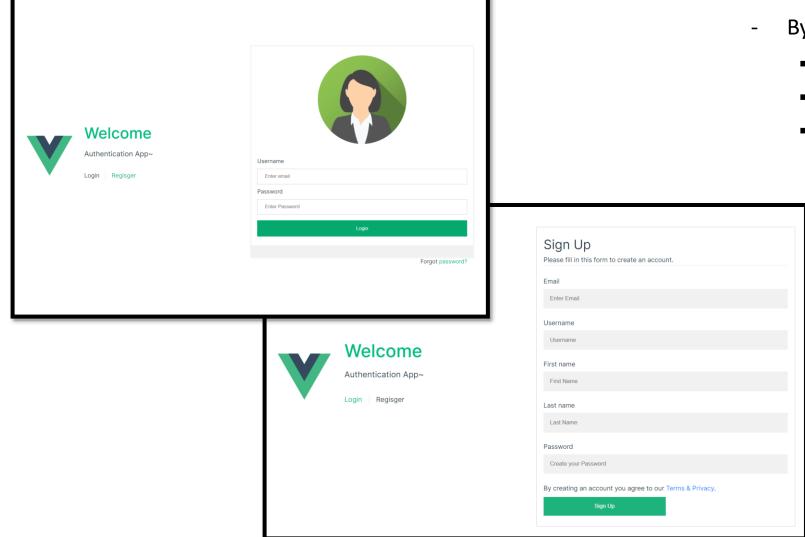
TP-08

VueJS, NodeJS

(Authentication frontend and APIs)

VueJS

EX1: Create a simple login and register form in VueJS

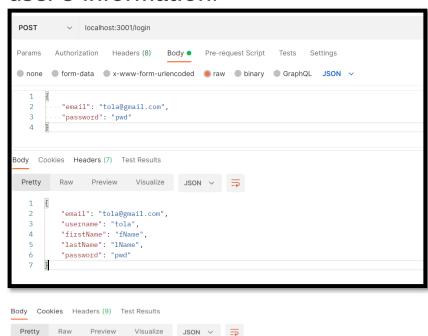


- By using VueJS router, we can access by
 - Login: http://localhost:3000/
 - Register: http://localhost:3000/register
 - Home: http://localhost:3000/home

NodeJS with ExpressJS

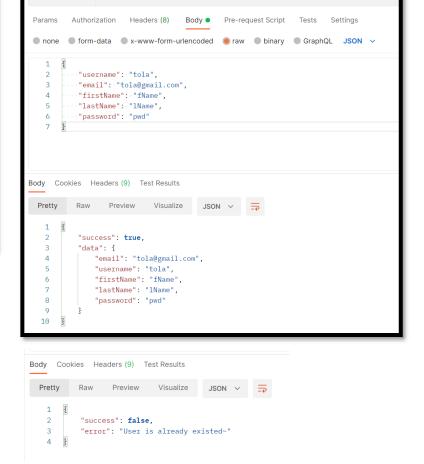
EX2: Create a nodejs APIs for authentication with ExpressJS. Use Json file as a database to store user's information.

localhost:3001/register



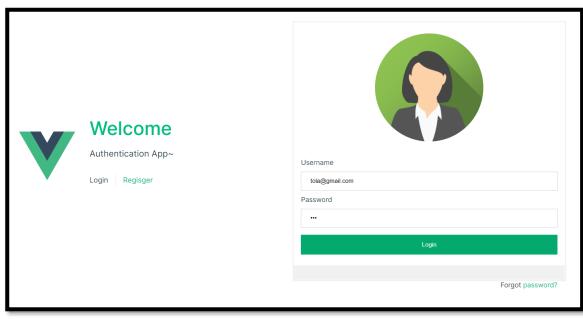
"success": false.

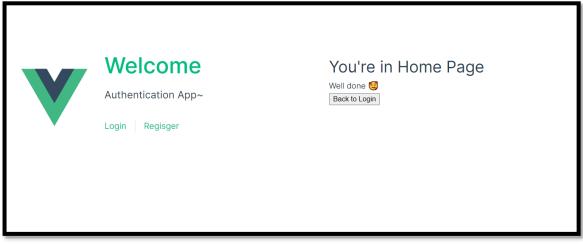
"error": "The user's information is incorrect~"



NodeJS

EX3: Integrate Login/Register app with APIs

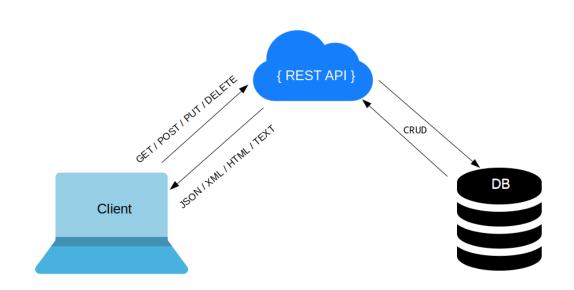


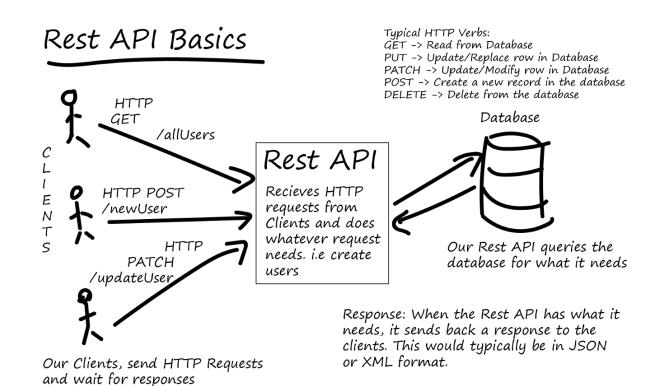


Getting to understand

"ExpressJS"

Rest APIs





```
const express = require('express' 4.17.3 )
const app = express()
const port = 3000

app.get('/', (req, res) => {
  res.send('Hello World!')
})

app.listen(port, () => {
  console.log(`Example app listening on port ${port}`);
})
```

```
$ node app.js
```

Basic routing

```
app.get('/', (req, res) => {
  res.send('Hello World!')
})
```

Respond to POST request on the root route (/), the application's home page:

```
app.post('/', (req, res) => {
  res.send('Got a POST request')
})
```

Respond to a PUT request to the /user route:

```
app.put('/user', (req, res) => {
  res.send('Got a PUT request at /user')
})
```

Respond to a DELETE request to the /user route:

```
app.delete('/user', (req, res) => {
  res.send('Got a DELETE request at /user')
})
```

Serving static files in Express

```
express.static(root, [options])
app.use(express.static('public'))
     http://localhost:3000/images/kitten.jpg
     http://localhost:3000/css/style.css
     http://localhost:3000/js/app.js
     http://localhost:3000/images/bg.png
     http://localhost:3000/hello.html
const path = require('path')
app.use('/static', express.static(path.join(__dirname, 'public')))
      http://localhost:3000/static/images/kitten.jpg
      http://localhost:3000/static/css/style.css
      http://localhost:3000/static/js/app.js
      http://localhost:3000/static/images/bg.png
      http://localhost:3000/static/hello.html
```

Middleware

```
var express = require('express');
var app = express();

HTTP method for which the middleware function applies.

Path (route) for which the middleware function applies.

The middleware function.

The middleware function, called "next" by convention.

app.listen(3000);

HTTP response argument to the middleware function, called "res" by convention.

HTTP request argument to the middleware function, called "req" by convention.
```

```
const express = require('express')
const app = express()

const myLogger = function (req, res, next) {
    console.log('LOGGED')
    next()
}

app.use(myLogger)

app.get('/', (req, res) => {
    res.send('Hello World!')
})

app.listen(3000)
```

```
const express = require('express')
const cookieParser = require('cookie-parser')
const cookieValidator = require('./cookieValidator')
const app = express()
async function validateCookies (req, res, next) {
  await cookieValidator(req.cookies)
  next()
app.use(cookieParser())
app.use(validateCookies)
// error handler
app.use((err, req, res, next) => {
  res.status(400).send(err.message)
app.listen(3000)
```

Application-level middleware

```
const express = require('express')
const app = express()

app.use((req, res, next) => {
   console.log('Time:', Date.now())
   next()
})
```

```
app.use('/user/:id', (req, res, next) => {
  console.log('Request URL:', req.originalUrl)
  next()
}, (req, res, next) => {
  console.log('Request Type:', req.method)
  next()
})
```

```
function logOriginalUrl (req, res, next) {
  console.log('Request URL:', req.originalUrl)
 next()
function logMethod (req, res, next) {
 console.log('Request Type:', req.method)
 next()
const logStuff = [logOriginalUrl, logMethod]
app.get('/user/:id', logStuff, (req, res, next) => {
 res.send('User Info')
```

Router-level middleware

```
const router = express.Router()
```

```
const express = require('express')
const app = express()
const router = express.Router()

// a middleware function with no mount path. This code is executed for every request to the router
router.use((req, res, next) => {
    console.log('Time:', Date.now())
    next()
})

// a middleware sub-stack shows request info for any type of HTTP request to the /user/:id path
router.use('/user/:id', (req, res, next) => {
    console.log('Request URL:', req.originalUrl)
    next()
}, (req, res, next) => {
    console.log('Request Type:', req.method)
    next()
})
```

Built-in middleware

- express.static serves static assets such as HTML files, images, and so on.
- express json parses incoming requests with JSON payloads. NOTE: Available with Express 4.16.0+
- express.urlencoded parses incoming requests with URL-encoded payloads. NOTE: Available with Express 4.16.0+

Third-party middleware

```
const express = require('express')
const app = express()
const cookieParser = require('cookie-parser')

// load the cookie-parsing middleware
app.use(cookieParser())
```

I want more about ExpressJS

https://expressjs.com/

Good luck