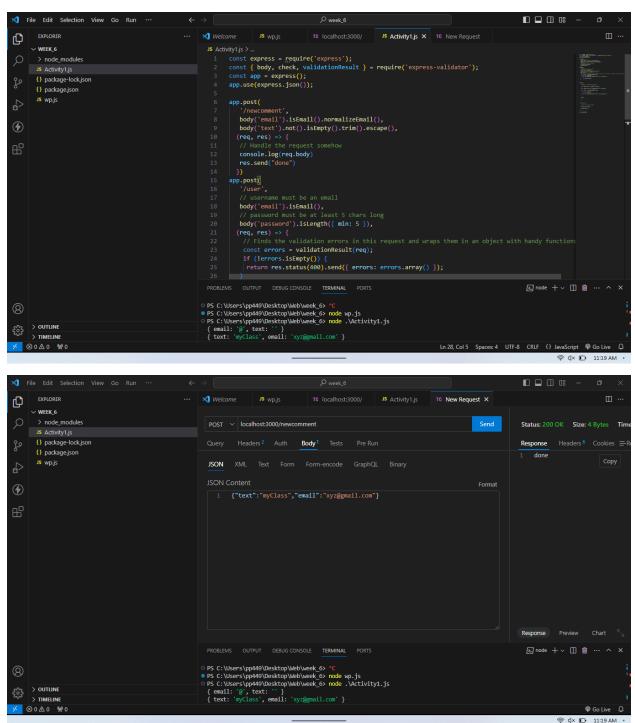
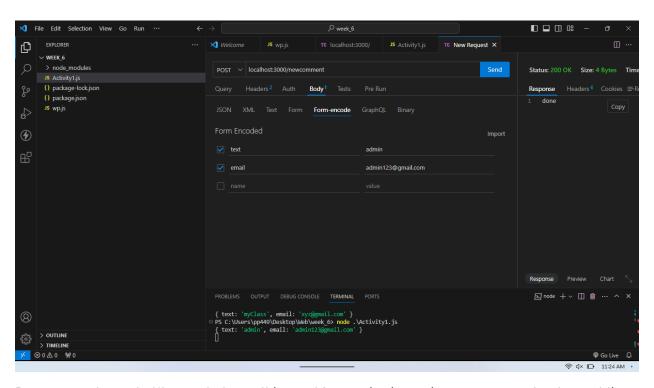
Activity1:

The .body() function is a middleware provided by the express-validator package in Node.js

The body method contains validation rules for email and password if the user enters the valid information then it will get the data.



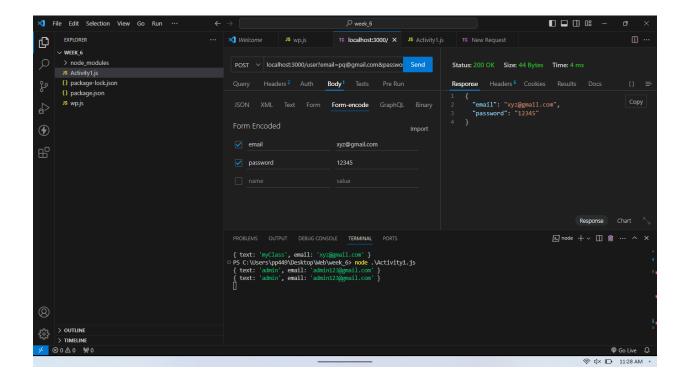


B. express.urlencoded({ extended: true }) is used for parsing incoming requests payloads, enabling parsing of objects .now we cannot pass the json data.we can pass strings and arrays.

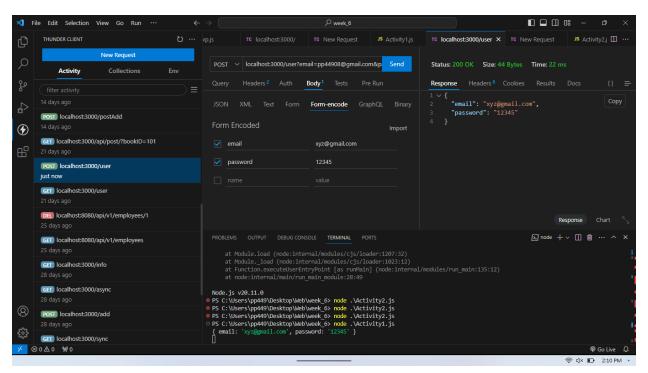
```
const express = require('express');
const { body, check, validationResult } = require('express-validator');
const app = express();
app.use(express.json());

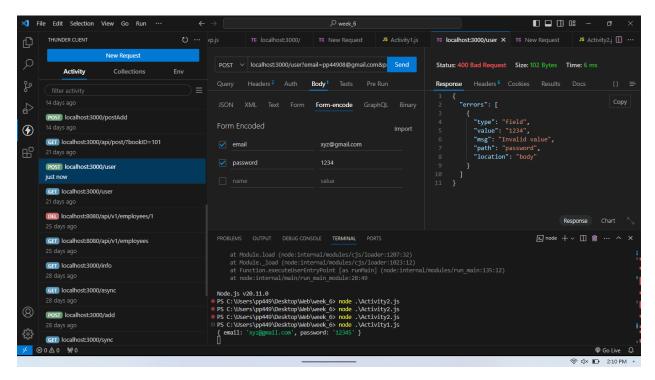
app.use(express.urlencoded({ extended: true }))

app.post(
    '/newcomment',
    body('email').isEmail().normalizeEmail(),
    body('text').not().isEmpty().trim().escape(),
    (req, res) => {
        // Handle the request somehow
        console.log(req.body)
        res.send("done")
    })
```



Step2:in the this url /user first of all the body is checking is email and password is valid or not if not it throws the error of 400

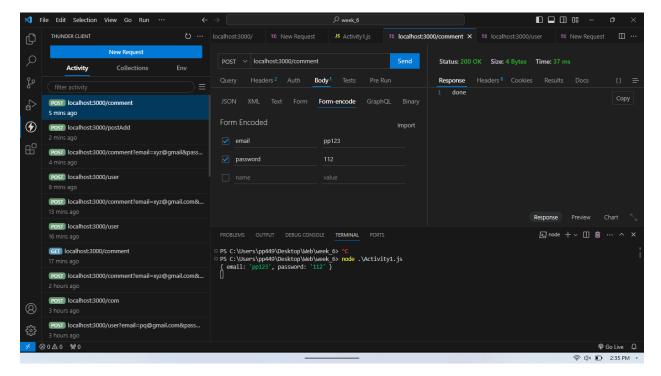




3) Try the 3rd route (/comment) in ThunderClient. Identify the middleware that performs validation. Explain how they work (.check? ,valudationResult()?)

What happens if you removed "async" and "await" . What is the role of "async" and "await"?

If we remove ayns and await the validation will not work and the data will be passed without validation.



4) Based on 1,2,3, compare the ".body" vs ".check" and elaborate the purpose/role of each

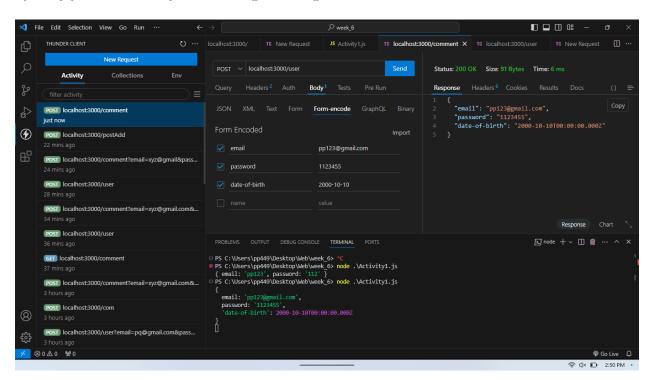
body and check can be used for request validation, .body() is specifically used for request body parameters, while .check() offers more flexibility and can be used for validating parameters from different parts of the request.

5) Based on 1,2,3, compare the "validation" vs "sanitization". Explain your answer

Validation is the process of checking whether the provided data meets certain criteria or constraints, while Sanitization is the process of cleaning, filtering, or modifying input data to ensure that it is safe and free from any potentially harmful content.

Validation results in either valid data or validation errors, while sanitization results in sanitized (cleaned) data that is safe for further processing.

- 6) Based on your observation, what would be the purpose/use case of the following two commands?
- a) check('date-of-birth').isISO8601().toDate()
- b) body('date-of-birth').isISO8601().toDate()

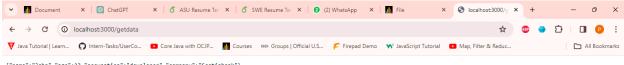


Activity2:

```
const { body, check, validationResult } = require('express-validator');
const app = express();
app.use(express.json());
const exphb = require('express-handlebars');
// add middleware -- initiliaze template
app.engine('.hbs', exphb.engine({ extname: '.hbs' }))
app.set('view engine', 'hbs')
app.get("/getData", function (req, res) {
    var someData = {
        name: "John",
        age: 23,
        occupation: "developer",
        company: "Scotiabank"
    res.json(someData);
});
// This will return the JSON-formatted string:
// { "name": "John", "age": 23, "occupation": "developer", "company":
"Scotiabank" }
//The question is What if we want to return a valid HTML5 page to the client that
actually references some data stored on the server? One solution would be to
build out a string that contains both HTML code and values, ie:
app.get("/viewData", function (req, res) {
    var someData = [{
        name: "John",
        age: 23,
        occupation: "developer",
        company: "Scotiabank",
        fulltime:true
    },{
        name: "cena",
        age: 24,
        occupation: "developer",
        company: "Cibcbank",
        fulltime:false
```

```
];
   res.render('viewData', {
      data: someData,
      layout: false
   })
        var htmlString = "<!doctype html>" +
            "" + "Name" + "" +
            "" + "Age" + "" +
            "" + "Occupation" + "" +
           "" + "Company" + "" +
           "" +
            "" + someData.occupation + "" +
           "" + someData.company + "" +
            "" +
```

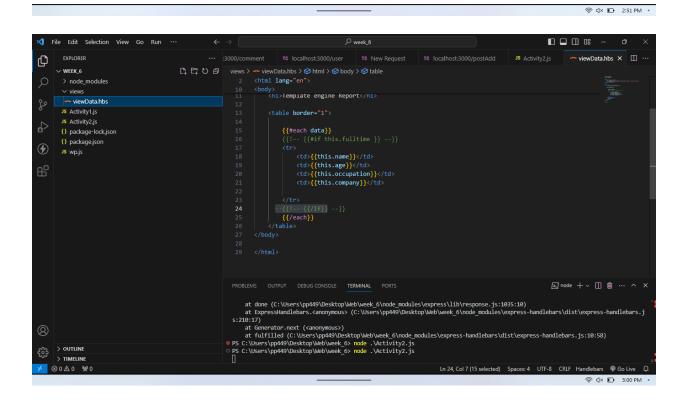
```
res.send(htmlString);
});
app.listen(3000);
```

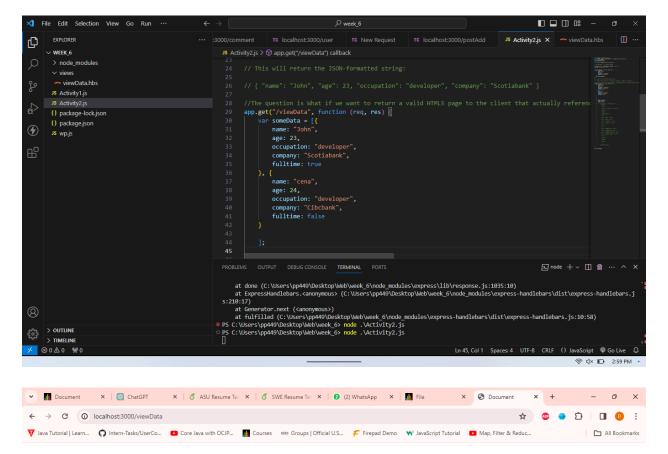


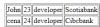
{"name":"John","age":23,"occupation":"developer","company":"Scotiabank"}

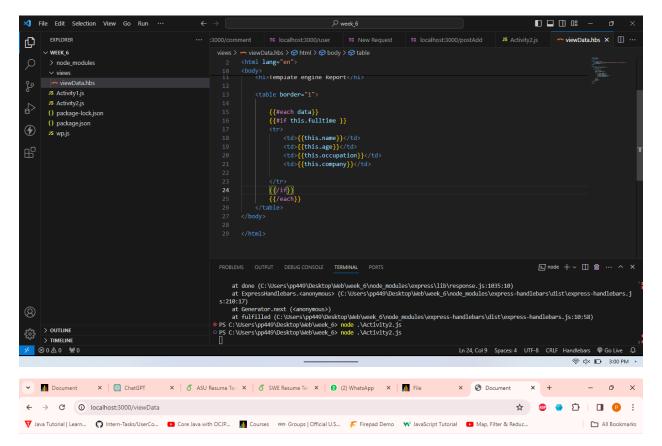


John 23 developer Scotiabank

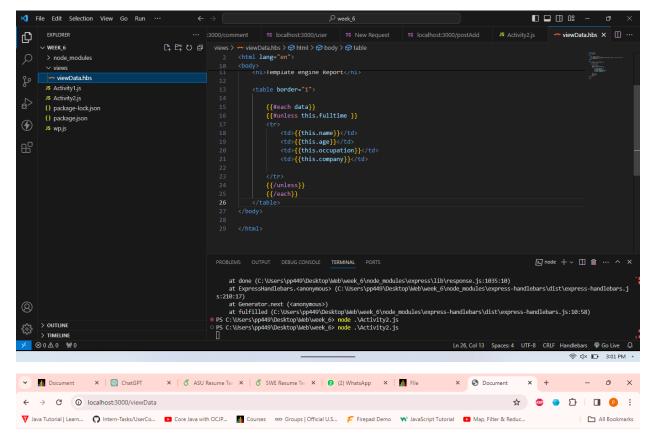








John 23 developer Scotiabank



cena 24 developer Cibcbank