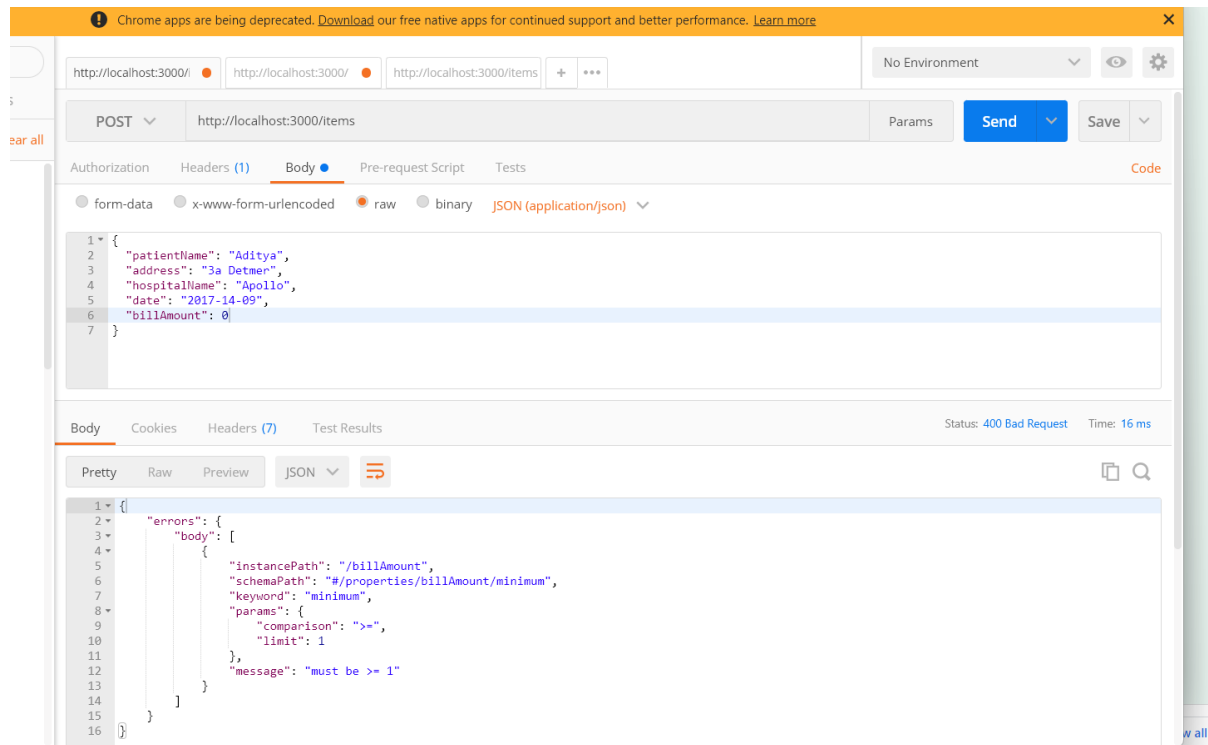


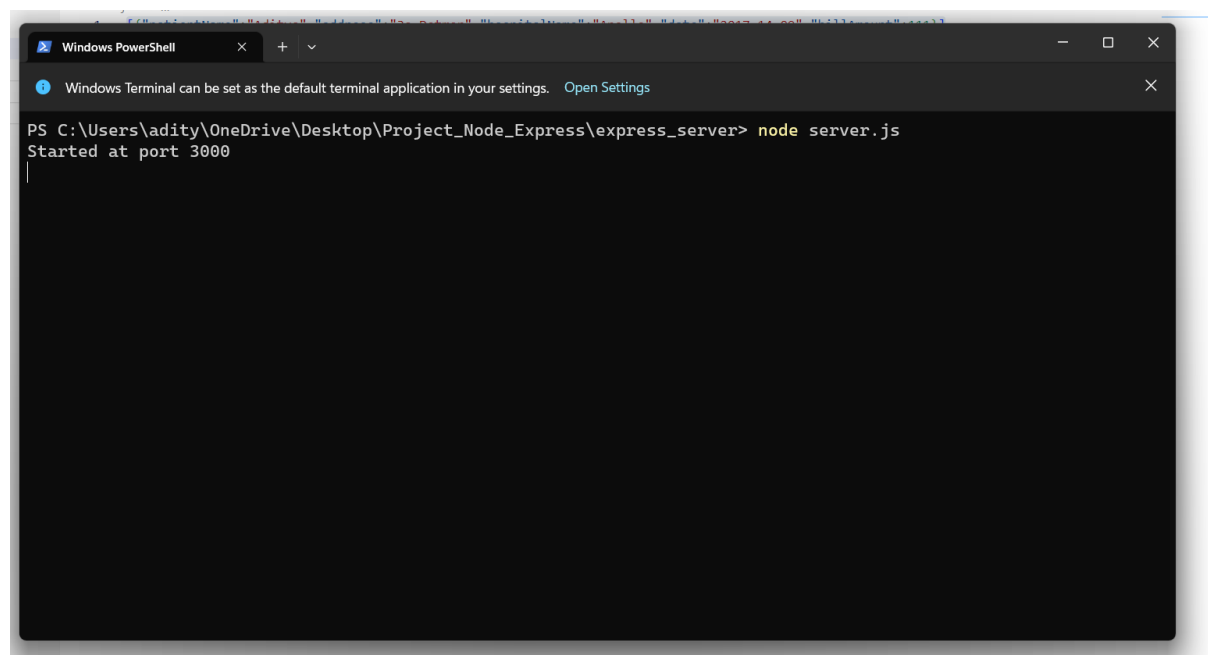
Request Validation: (using [express-json-validator-middleware](#))

I've added two Mandatory fields ("**patientName**", "**hospitalName**") and minimum length of string as 1.

Request Validation : Bill amount to be > 0.

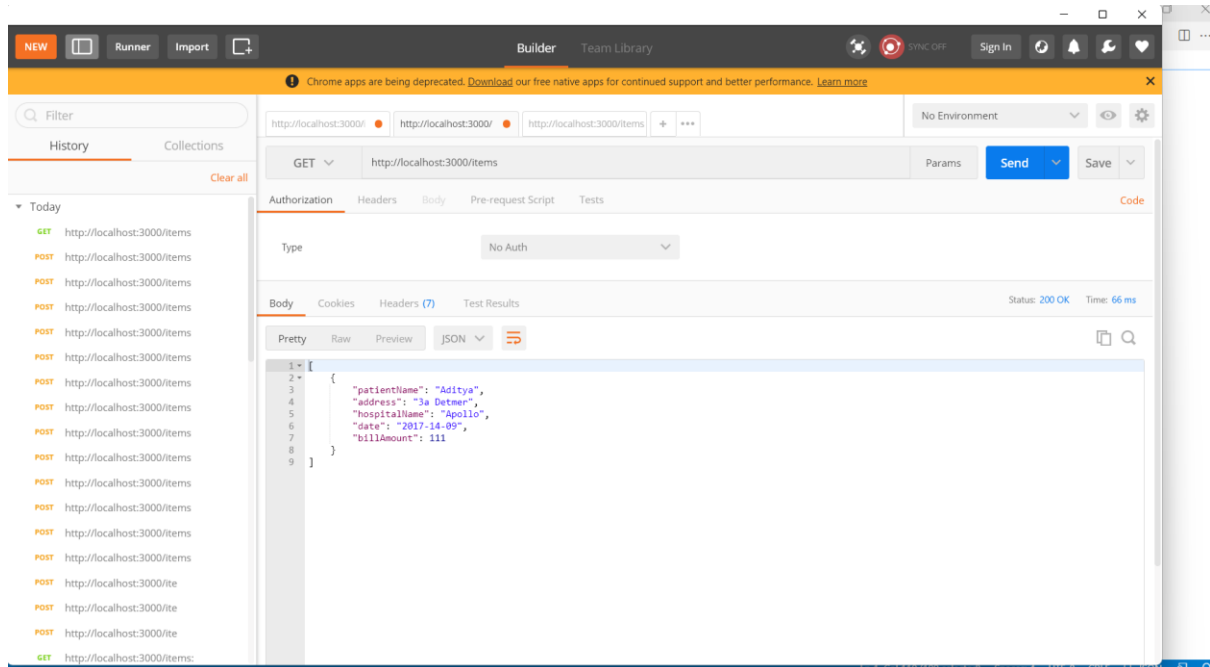


Started Server: (node server.js)



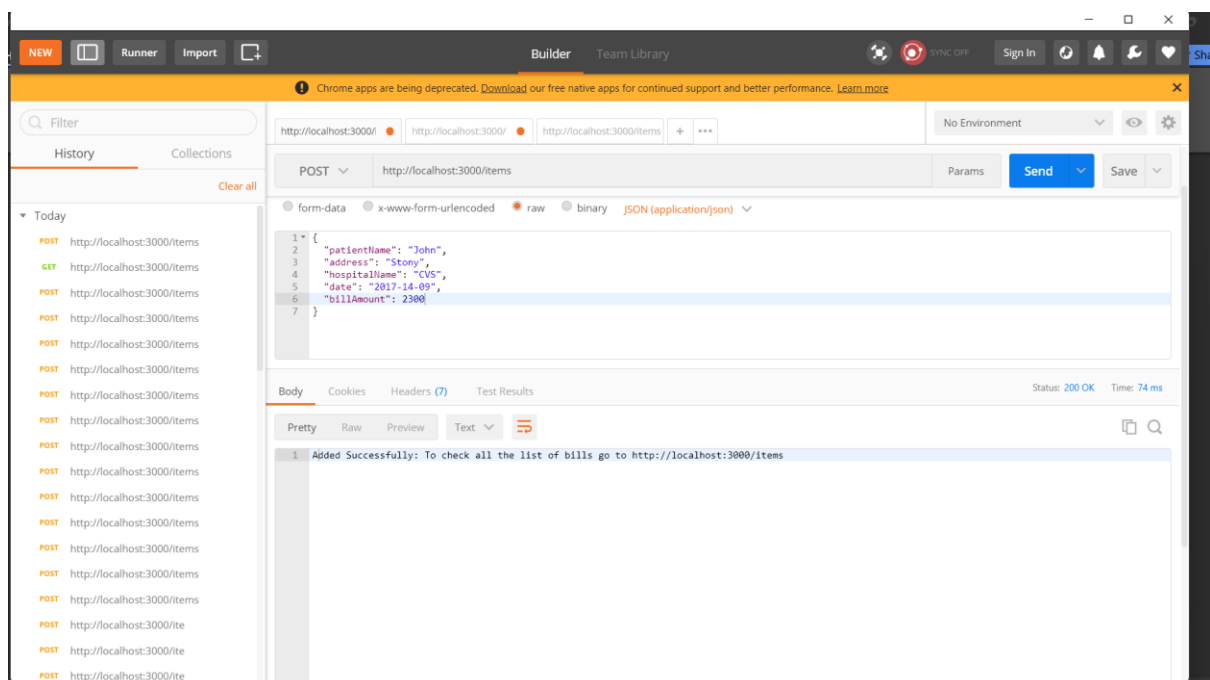
Get Endpoint:

<http://localhost:3000/items>

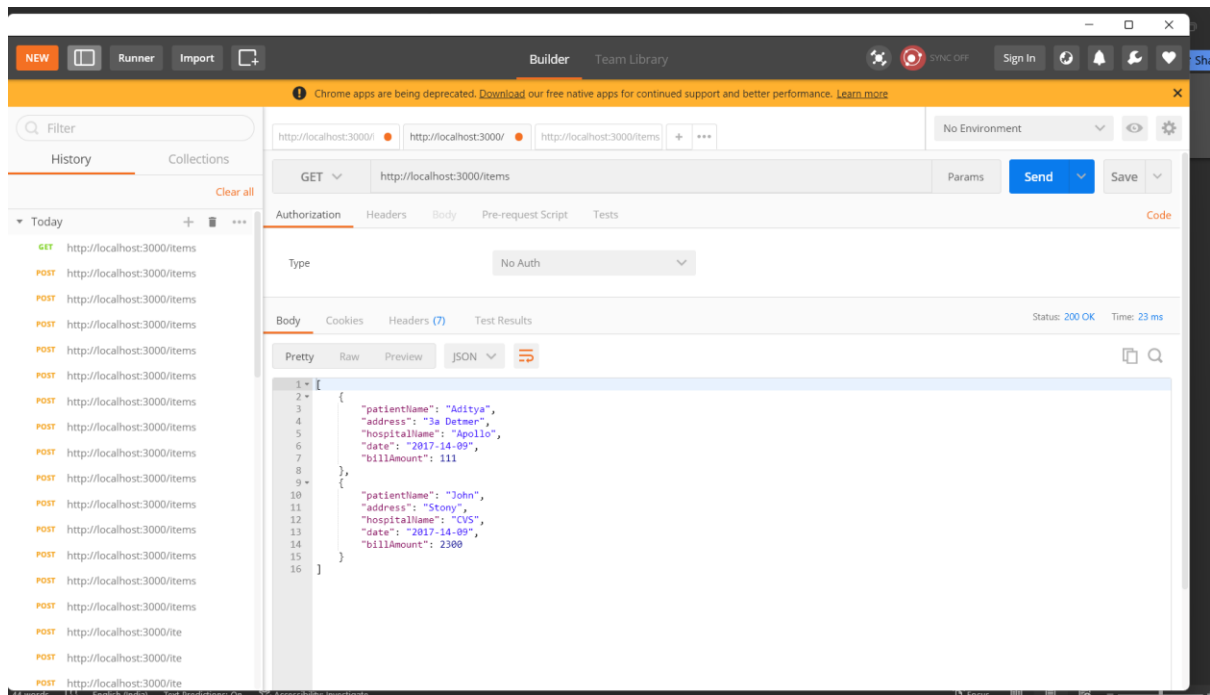


Post Endpoint:

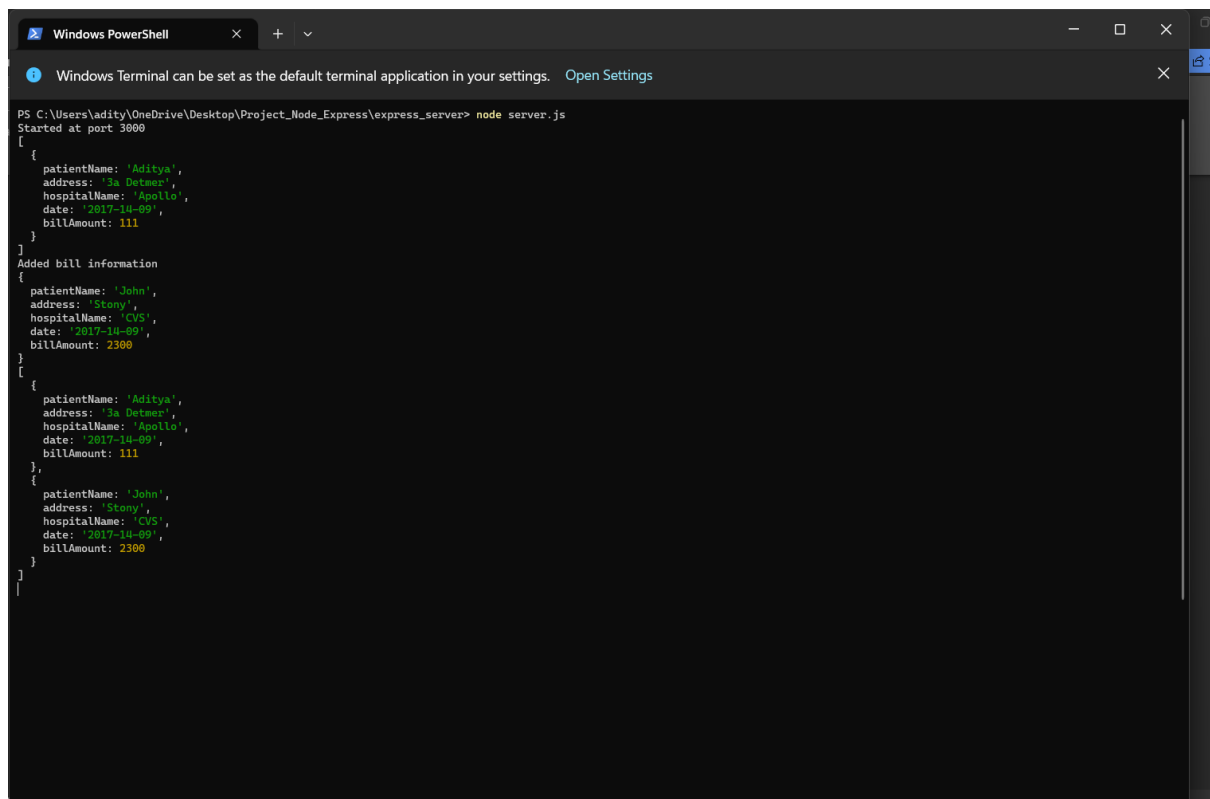
<http://localhost:3000/items> -> request body -> json of bill information to be passes



Again, Get Endpoint To see the above saved bill information:



Terminal with all 3 calls (First GET, then POST and then GET):



Simple Logic:

Created one file at the same path "bills.json", storing information of all the bills,

For GET API call, it reads all the list of bills from the file

For POST API call, it updates the file by adding one more item in the bills.json files.

Source Code:

File - > Server.js:

```
var express = require("express");
var app = express();
var bodyParser = require("body-parser");
const fs = require('fs');

app.use(bodyParser.json());

const {
  Validator,
  ValidationError,
} = require("express-json-validator-middleware");

const { validate } = new Validator();

function validationErrorMiddleware(error, request, response, next) {
  if (response.headersSent) {
    return next(error);
  }

  const isValidationError = error instanceof ValidationError;
  if (!isValidationError) {
    return next(error);
  }
}
```

```

        response.status(400).json({
            errors: error.validationErrors,
        });

        next();
    }

    const userSchema = {
        type: "object",
        required: ["patientName", "hospitalName"],
        properties: {
            patientName: {
                type: "string",
                minLength: 1,
            },
            address: {
                type: "string",
                minLength: 1,
            },
            hospitalName: {
                type: "string",
                minLength: 1,
            },
            date: {
                type: "string",
                minLength: 1,
            },
            billAmount: {
                type: "integer",
                minimum: 1,
            },
        },
    };

    app.listen(3000, function(){
        console.log("Started at port 3000")
    });

    app.post('/items', validate({ body: userSchema }), function (req, res, next){
        res.setHeader('Content-Type', 'application/json');
        console.log("Added bill information")
        console.log(req.body);
        res.send("Added Successfully: To check all the list of bills go to  
http://localhost:3000/items ");

        var item = req.body;
        var data = fs.readFileSync('bills.json', 'utf8');
        var list = (data.length) ? JSON.parse(data): [];
    }

```

```

        if (list instanceof Array) list.push(item)
        else list = [item]
        fs.writeFileSync('bills.json', JSON.stringify(list));
        next();
    });

app.use(validationErrorMiddleware);

app.get("/items", function(req,res){
    res.setHeader('Content-Type', 'application/json');
    fs.readFile('bills.json', (err, data) => {
        if (err) throw err;
        let bills = JSON.parse(data);
        console.log(bills);
        res.send(bills);

    });
})

```

File -> Package.Json

```

{
  "name": "express_server",
  "version": "1.0.0",
  "description": "demo",
  "main": "server.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Aditya",
  "license": "ISC",
  "dependencies": {
    "body-parser": "^1.20.1",
    "express": "^4.18.2",
    "express-json-validator-middleware": "^3.0.1"
  }
}

```

File -> bills.json

```

[{"patientName": "Aditya", "address": "3a  
Detmer", "hospitalName": "Apollo", "date": "2017-14-  
09", "billAmount": 111}, {"patientName": "John", "address": "Stony", "hospitalName": "  
CVS", "date": "2017-14-09", "billAmount": 2300}]

```