Vibhor Mendhe

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Index.js code

const httpServer = require('http');

const url = require('url');

const fs = require('fs');

const replaceTemplate = require('./modules/replaceTemplate');

var FinalArray = []

const tempCourse = fs.readFileSync(

    `${\_\_dirname}/data/loanData.json`,

    'utf-8'

 );

const templateHTMLCourse = fs.readFileSync(

    `${\_\_dirname}/template/templateCourse.html`,

    'utf-8'

  );

const dataObj = JSON.parse(tempCourse);

const server = httpServer.createServer( (req, res) =>{

    const {query,pathname} = url.parse(req.url, true);

    if(query.id){

        if (pathname === '/' || pathname.toLowerCase() === '/courses') {

            res.writeHead(200, {

                'Content-type': 'text/html'

            });

            const course = dataObj[Number(query.id)];

            const totalLoanAmt = function (course){

                var monthlyPayment = 250;

                var monthlyInterest = course.interest/1200;

                var Numbermonth = course.loanTermYears \* 12  ;

                var sample = (1+ monthlyInterest);

                var target = 1-(1/(Math.pow(sample,Numbermonth)));

                var LoanAmount = (monthlyPayment/monthlyInterest)\*(target)

                return LoanAmount;

           }

            const finalAmount = totalLoanAmt(course);

            let courseHTML = replaceTemplate(templateHTMLCourse, course);

            courseHTML = courseHTML.replace(/{%LOANAMOUNT%}/g, finalAmount);

            console.log(finalAmount)

            res.end(courseHTML);

            GrantTotal(finalAmount);

        }

    }

    else{

            res.writeHead(404, {

                'Content-type': 'text/html'

            });

            res.end(`resource not found`)

        }

    });

    const GrantTotal = () => {

        dataObj.forEach(function (item) {

            var monthlyPayment = 250;

            var monthlyInterest = item.interest / 1200;

            var Numbermonth = item.loanTermYears \* 12;

            var sample = (1 + monthlyInterest);

            var target = 1 - (1 / (Math.pow(sample, Numbermonth)));

            var LoanAmount = (monthlyPayment / monthlyInterest) \* (target)

            FinalArray.push(LoanAmount)

            return LoanAmount;

        })

        const initialValue = 0;

        const sumWithInitial = FinalArray.reduce(

            (a, b) => a + b,

            initialValue

        );

        console.log("!!!" + sumWithInitial.toFixed(2));

    }

//Start Listening to requests

server.listen(8000, 'localhost', ()=> {

    console.log('Listening to requests on port 8000');

});

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Graphical user interface, application

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