express

Purpose:

Express is a fast ,minimalist web framework for Node.js .It Provides tools to build web applications and APIs.

Usage :

To handle HTTP request and responses.

To create routes for different endpoints (e.g., GET,POST,PUT,DELETE).

To integrate middleware for processing requests

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express-handlers

Purpose: This package is an Express.js template engine for rendering dynamic HTML pages using Handlebars syntax .

Usage:

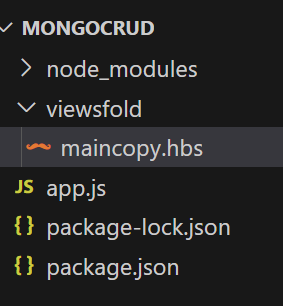
To serve dynamic content by combining HTML templates with javascript data.

To Create reusable components like headers,footers,etc.,using Handlebars partials.

body -parser

Purpose:

Body-parser is middleware that parses incoming request bodies in a middleware before your handlers, making the request data accessible in req.body.It is especially useful for handling POST requests.



**Maincopy .hbs:**

<!DOCTYPE html>

<html lang="en">

    <head>

        <title>MONGODB CRUD</title>

    </head>

    <body>

        <h1>MONGODB CRUD</h1>

        <p>{{msg}}</p>

    </body>

</html>

**app.js**

const express=require('express');

const exhbs=require('express-handlebars');

const app=express();

app.engine('hbs',

exhbs.engine({

layoutsDir:'viewsfold/',

defaultLayout:'maincopy',

extname:'hbs',

})

);

app.set('view engine','hbs')

app.set('views','viewsfold');

app.get('/',(req,res)=>{

const msg='test';

res.render('maincopy',{msg});

});

app.listen(8000,()=>{

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

});

**Maincopy.hbs**

<!DOCTYPE html>

<html lang="en">

    <head>

        <title>MONGODB CRUD</title>

    </head>

    <body>

        <h1>MONGODB CRUD</h1>

        <ul>

            {{#each datas}}

            <li>{{this.empid}} {{this.empname}}</li>

            {{/each}}

        </ul>

        <p>{{msg}}</p>

    </body>

</html>

**App.js**

const  express=require('express');

const exhbs=require('express-handlebars');

const app=express();

const dbo=require('./db')

app.engine('hbs',

    exhbs.engine({

        layoutsDir:'viewsfold/',

        defaultLayout:'maincopy',

        extname:'hbs',

    })

);

app.set('view engine','hbs')

app.set('views','viewsfold');

//Routes

app.get('/',async (req,res)=>{

    let database= await dbo.getDatabase();

    const collection=database.collection('emp');

    const cursur=collection.find({});

    let datas=await cursur.toArray()

    const msg='Hello';

    console.log('the data',datas);

    res.render('maincopy',{msg,datas});

});

app.listen(8000,()=>{

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

});

**Db.js**

const mongodb=require ('mongodb');

const mongoClient=mongodb.MongoClient;

let database;

async function getDatabase(){

    const client= await mongoClient.connect('mongodb://127.0.0.1:27017');

    database=client.db('t1');

    if(!database){

        console.log('Database connected successfully');

    }

    else{

        console.log('Database connection failed:');}

    return database;

}

module.exports={getDatabase};

**For Insert:**

**App.js:**

const  express=require('express');

const bodyParser=require('body-parser')

const exhbs=require('express-handlebars');

const app=express();

const dbo=require('./db')

app.engine('hbs',

    exhbs.engine({

        layoutsDir:'viewsfold/',

        defaultLayout:'maincopy',

        extname:'hbs',

    })

);

app.set('view engine','hbs')

app.set('views','viewsfold');

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

//Routes

app.get('/',async (req,res)=>{

    let database= await dbo.getDatabase();

    const collection=database.collection('emp');

    const cursur=collection.find({});

    let datas=await cursur.toArray()

    let msg='';

    if(req.query.status=='1')

        msg='inserted...'

    console.log('the data',datas);

    res.render('maincopy',{msg,datas})

});

app.post('/empinfo',async(req,res)=>{

    const database =await dbo.getDatabase();

    const collection =database.collection('emp');

    const employee={empid:req.body.eid,empname:req.body.ename};

    await collection .insertOne(employee);

    res.redirect('/?status=1');

})

app.listen(8000,()=>{

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

});

**Maincopy.hbs:**

<!DOCTYPE html>

<html lang="en">

    <head>

        <title>MONGODB CRUD</title>

    </head>

    <body>

        <h1>MONGODB CRUD</h1>

        <h3>Form Creation</h3>

        <form action="/empinfo" method="post">

    <label for="">EMP Id</label>

    <input type="text" name="eid">

    <label for="">EMP Name</label>

    <input type="text" name="ename">

    <input type="submit">

</form>

<br><br>

        <br><br>

        <ul>

            {{#each datas}}

            <li>{{this.empid}} {{this.empname}}</li>

            {{/each}}

        </ul>

        <p>{{msg}}</p>

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