Create server

http = require('http');

listener = function (request, response) {

   // Send the HTTP header

   // HTTP Status: 200 : OK

   // Content Type: text/html

   response.writeHead(200, {'Content-Type': 'text/html'});

   // Send the response body as "Hello World"

   response.end('<h2 style="text-align: center;">Hello World</h2>');

};

server = http.createServer(listener);

server.listen(3000);

// Console will print the message

console.log('Server running at http://127.0.0.1:3000/');

const http = require('http')

// Create Web Server

const server = http.createServer((req,res)=>

{res.setHeader('Content-Type','text/plain');

  res.end('This is repsosne from server')

})

const PORT = process.env.PORT | 9000

server.listen(PORT,'localhost' ,()=>

{

  console.log("Server has been started at port no $PORT at http://localhost:9000")

})

const http = require('http');

const uc = require('upper-case')

const server = http.createServer((req,res)=>

{

  res.write(uc.upperCase("Hello "))

  res.end("This is the last statement")

})

const PORT = process.env.PORT | 9000

server.listen(PORT, 'localhost', ()=>

{

  console.log("Server is listening ")

})

EXPRESS DEMOS

const express = require("express");

const app = express();

const port = 3000;

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

res.send("home page")

});

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

    res.send("contact us")

    });

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

        res.send("about us")

        });

app.listen(port, ()=>

{

    console.log("aaa");

})

const express = require("express");

var app = express();

const port = 3000;

// var myroutes = require("./myroutes.js");

// app.use("/api", myroutes)

// HTTP Verbs

// get

// post put delete

// Syntax

//app.get(route, callback)

// app.get("/" ,  function(req, res)

// {

//  console.log("Hello World");

//  res.send();

// })

// app.get("/" ,  function(req, res)

// {

//  res.send("This is home page");

// })

// app.get("/" ,  (req, res)=>

// {

//  res.send("This is new home page");

// })

app.post("/" , (req,res) =>

{

   res.send("Data is submitted")

})

// app.all("/allmethods" , (req,res)=>

// {

//   res.send("HANDLING EVERYHING")

// })

// // Strings

// app.get("/about" , (req,res)=>

// {

//   res.send("About Page")

// })

// app.get("/contact" , (req,res)=>

// {

//   res.send("Contact Page")

// })

// String Patterns

app.get('/ab?cd', (req,res)=>

{

  res.write("Line1")

  res.write("line2")

  res.send();

})

// Regular Expression

// app.get(/a/, (req,res)=>

// {

//   res.send("This is handled by this method")

// })

// More than 1 Callback Methods

// app.get("/multiple", (req,res,next)=>

// {

//  console.log("Write some logic here")

//  next()

// }, (req,res)=>

// {

//  console.log("2nd Callback")

//  res.send("2 More than 1 Callback")

// })

// // An array of callbacks

const cb1 = (req,res,next)=>{

  console.log("First Callback")

next()

}

const cb2 = (req,res,next)=>{

  console.log("Second Callback")

next()

}

const cb3 = (req,res,next)=>{

  console.log("Third Callback")

  // res.send("An Array of callbacks")

  next()

}

app.get("/arrayofcallbacks", [cb1, cb2,cb3]);

// // Combination of Independent Functions & Array of Functions

// app.get("/combination", [cb1,cb2,cb3], (req,res,next)=>

// {

//  console.log("4th Callback")

//  next()

// }, (req,res)=>

// {

//   console.log("5th Callback")

//   res.send("Combination of Array of Callbacks & separate callbacks")

// })

// // If there is no matching route

app.all("\*", (req,res)=>

{

  res.send("No page")

})

app.listen(port , ()=> { console.log(`listening at port no ${port}`)});

Added Routes

const express = require("express");

var myroute =express.Router();

myroute.get("/" ,  (req, res)=>

{

 res.send("This is new home page");

})

myroute.get("/users/:id" ,  (req, res)=>

{

  console.log(req.params)

 res.send("This is new home page");

})

myroute.post("/" , (req,res) =>

{

   res.send("Data is submitted")

})

myroute.all("/allmethods" , (req,res)=>

{

  res.send("HANDLING EVERYHING")

})

// Chained Route Callback

// route.get("/student", (req,res)=>

// {

// });

// route.post("/student", (req,res)=>

// {

// });

// myroute.route("/student")

// .all((req,res,next)=>

// {

//  res.send("First Call this Method")

//   next()

// })

// .get((req,res,next)=>

// {

//   console.log("Get Method ")

//   res.send("Get Method")

//   next()

// })

// .post((req,res)=>

// {

//   console.log("Post Method ")

// // res.send("Added new Student")

// })

// .put((req,res)=>

// {

//   console.log("Put Method ")

//   // res.send("Student record edited")

// })

module.exports = myroute

ex3.js

const express = require("express");

var app = express();

const port = 3000;

var myroutes = require("./myroutes.js");

app.use("/api", myroutes)

// HTTP Verbs

// get

// post put delete

// Syntax

//app.get(route, callback)

// app.get("/" ,  function(req, res)

// {

//  console.log("Hello World");

//  res.send();

// })

// app.get("/" ,  function(req, res)

// {

//  res.send("This is home page");

// })

// app.get("/" ,  (req, res)=>

// {

//  res.send("This is new home page");

// })

app.post("/" , (req,res) =>

{

   res.send("Data is submitted")

})

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// // Strings

// app.get("/about" , (req,res)=>

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//   res.send("About Page")

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// // An array of callbacks

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  console.log("First Callback")

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}

const cb2 = (req,res,next)=>{

  console.log("Second Callback")

next()

}

const cb3 = (req,res,next)=>{

  console.log("Third Callback")

  // res.send("An Array of callbacks")

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}

app.get("/arrayofcallbacks", [cb1, cb2,cb3]);

// // Combination of Independent Functions & Array of Functions

// app.get("/combination", [cb1,cb2,cb3], (req,res,next)=>

// {

//  console.log("4th Callback")

//  next()

// }, (req,res)=>

// {

//   console.log("5th Callback")

//   res.send("Combination of Array of Callbacks & separate callbacks")

// })

// // If there is no matching route

app.all("\*", (req,res)=>

{

  res.send("No page")

})

app.listen(port , ()=> { console.log(`listening at port no ${port}`)});

Event

const event = require("events");

var EventEmitter = new event.EventEmitter();

EventEmitter.on("speak",()=>{

    console.log("event is invoked")

});

EventEmitter.emit("speak");

const event = require("events");

var EventEmitter = new event.EventEmitter();

EventEmitter.on("speak",(name)=>{

    console.log("event is invoked by " + name)

});

EventEmitter.emit("speak","jay");

const express = require("express")

const EventEmitter = require("events");

// const { count } = require("console");

const app = express()

const event = new EventEmitter();

let count=0;

event.on("countApi",()=>

{

    console.log("event called");

    count++;

    console.log(count)

})

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

    res.send("api called");

    event.emit("countApi")

})

app.listen(3000, (req,res)=>{

    console.log("listening")

})

exports.add = function (x, y) {

    return x + y;

};

exports.sub = function (x, y) {

    return x - y;

};

exports.mult = function (x, y) {

    return x \* y;

};

exports.div = function (x, y) {

    return x / y;

};

Calling

const calculator = require('./calc');

let x = 50, y = 10;

console.log("Addition of 50 and 10 is "

             + calculator.add(x, y));

console.log("Subtraction of 50 and 10 is "

             + calculator.sub(x, y));

console.log("Multiplication of 50 and 10 is "

             + calculator.mult(x, y));

console.log("Division of 50 and 10 is "

             + calculator.div(x, y));

Os module

const os = require('os')

console.log(os.freemem())

console.log(os.homedir())

console.log(os.hostname())

console.log(os.platform())

console.log(os.release())

console.log(os.type())

fd module

const fs = require('fs')

fs.writeFileSync('test.txt' ,"This is a new file")

fs.appendFileSync('test.txt' ,"\nThis is a new line added")

fs.writeFile('file2.txt', 'This is a new file', (err,data)=>

{

  console.log("Data Added")

})

var data = fs.readFileSync('test.txt')

console.log(data.toString())

fs.readFile('file2.txt', 'utf-8', (error,data)=>

{

  console.log(error,data)

})

console.log("Finished Reading")

server

const http = require('http')

// Create Web Server

const server = http.createServer((req,res)=>

{res.setHeader('Content-Type','text/plain');

  res.end('This is repsosne from server')

})

const PORT = process.env.PORT | 9000

server.listen(PORT,'localhost' ,()=>

{

  console.log("Server has been started at port no $PORT at http://localhost:9000")

})