**Express Js**

**General Syntax:**

const express=require(“express”)

const app=express()

app.get(“”,(req,res)=>{

res.send(“Hello, this is home page”)

})

App.get(“/about”,(req,res)=>{

res.send(“Hello,this is about page”)

})

app.listen(4000)

**Req and Res params:**

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

    console.log("Request sent by browser",*req*.query.name)

*res*.send("About Page")

})

?name=Om&&age=40

**Render html:**

*res*.send(`

    <h1>Welcome to Home Page</h1>

    <p>

    <b>Your name: </b>${*req*.query.name}<br>

    <b>Your Department: </b>${*req*.query.dept}

    </p>

    `)

**Basic Example:**

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

*res*.send(`

    <h1>Welcome to Home Page</h1>

    <form method="GET" action="/about">

        <input type="text" name="n" placeholder="Name" required><br>

        <input type="text" name="dept" placeholder="Department" required><br>

        <a href="about"><input type="submit" value="Submit"></a>

    </form>

    `)

})

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

*res*.send(`

    <h1>Welcome to About Page</h1>

    <p>

    <b>Your name: </b>${*req*.query.n}<br>

    <b>Your Department: </b>${*req*.query.dept}

    </p>

    `)

})

**Render JSON:**

res.send({})

**Basic Example:**

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

*res*.send(`

    <h1>Welcome to Home Page</h1>

    <form method="GET" action="about">

        <input type="text" name="n1" placeholder="Name" required><br>

        <input type="text" name="dept1" placeholder="Department" required><br><br>

        <input type="text" name="n2" placeholder="Name" required><br>

        <input type="text" name="dept2" placeholder="Department" required><br>

        <a href="about"><input type="submit" value="Submit"></a>

    </form>

    `)

})

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

*res*.send([

        {

            name:*req*.query.n1,

            dept:*req*.query.dept1

        },

        {

            name:*req*.query.n2,

            dept:*req*.query.dept2

        }

    ])

})

**Access HTML Page:**

*const* dirPath=require("path").join(\_\_dirname,"public")

app.use(express.static(dirPath))

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

*res*.sendFile(dirPath+"/about.html")

})

**Remove 404 Extension:**

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

*res*.sendFile(dirPath+"/error.html")

})

**OS module:**

*const* os = require("os")

console.log(os.arch())

console.log(os.hostname())

console.log(os.platform())

console.log(os.totalmem()/(1024\*1024\*1024))

console.log(os.freemem()/(1024\*1024\*1024))

console.log(os.userInfo())

**EventEmitter:**

*const* EventEmitter = require("events")

*const* event = new EventEmitter()

//Creating a function with name "PrintMarks"

event.on("PrintMarks",(*name*)*=>*{

    marks = {

        "Sharadha":70,

        "Pranay": 67,

        "Kumar":88

    }

    if(*name*==undefined)

    console.log(marks)

else

    console.log(marks[*name*])

})

//Calling function

event.emit("PrintMarks")

//Calling once more with name "Pranay"

event.emit("PrintMarks","Pranay")

**MiddleWares:**

**Application Level Middleware**

*const* middleWare = (*req*,*res*,*next*) *=>* {

    if(*req*.query.name >= 18)

    next();

    else

*res*.send("You are not allowed to access this page")

}

app.use(middleWare)

**Route Level Middleware**

*const* middleWare = (*req*,*res*,*next*) *=>* {

    if(*req*.query.name >= 18)

    next();

    else

*res*.send("You are not allowed to access this page")

}

*const* route = express.Router()

route.use(middleWare)

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

*res*.send("Home Page")

})

app.use(route)

**HTTP Response Status Codes**

Informational responses (100 - 199)

Successful responses (200 - 299)

Redirection responses (300 - 399) like with wrong url to match url

Client error responses (400 - 499)

Server error responses (500 - 599)