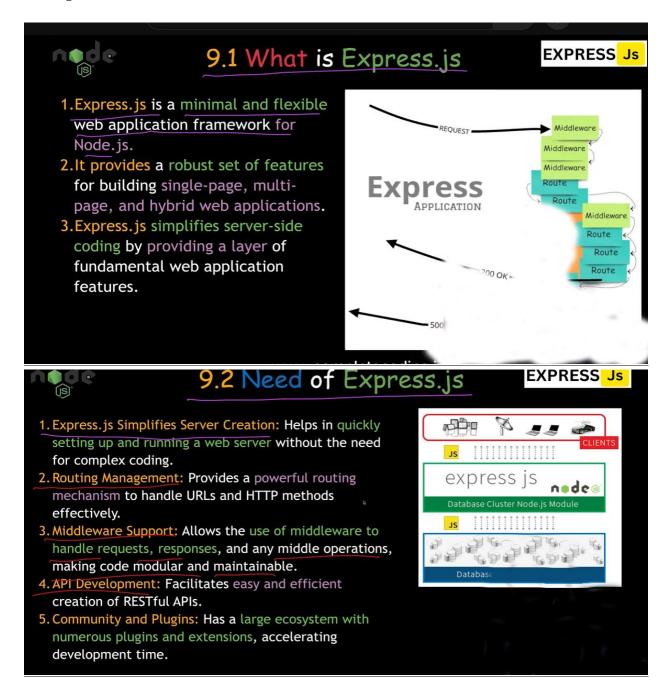
## **Express Introduction :::**





# 9.3 Installing Express.js

```
$ npm install express
```

To install Express temporarily and not add it to the dependencies list:

```
$ npm install express --no-save
```

By default with version npm 5.0+, npm install adds the module to the dependencies list in the package.json file; with earlier versions of npm, you must specify the —save option explicitly. Then, afterwards, running npm install in the app directory will automatically install modules in the dependencies list.



# 9.3 Installing Express.js

```
// Core Modules
const http = require('http');
// External Modules
const express = require('express');

const app = express();

const server = http.createServer(app);

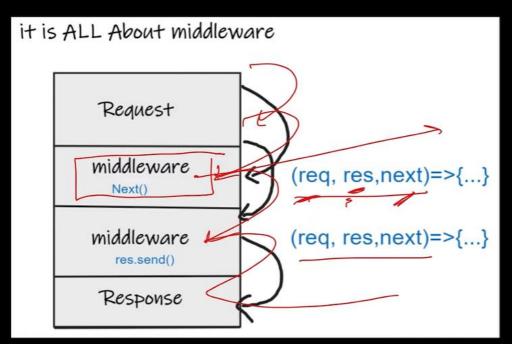
const PORT = 3000;
server.listen(PORT, () => {
    console.log('Server running at http://localhost:${PORT}/');
});
```

prashantjain@Prashants-Mac-mini node % npm start
> node@1.0.0 start
> nodemon app.js

[nodemon] 3.1.7
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): \*.\*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node app.js`
Server running at http://localhost:3000/



## 9.4 Adding Middleware





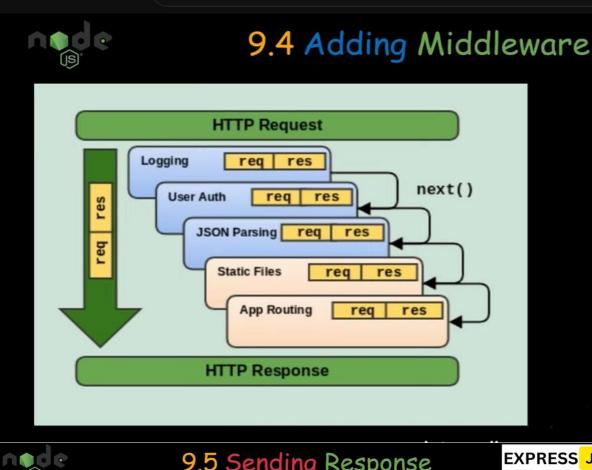
## 9.4 Adding Middleware

```
// Adding Middleware
app.use((req, res, next) => {
  console.log("First Middleware", req.url, req.method);
  next();
});

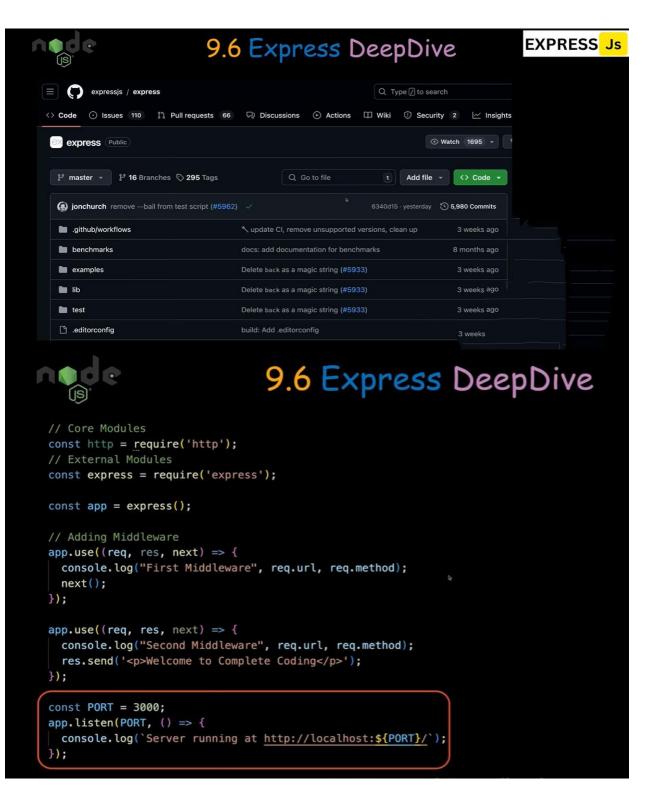
app.use((req, res, next) => {
  console.log("Second Middleware", req.url, req.method);
});

const server = http.createServer(app);

[nodemon] restarting due to changes...
[nodemon] starting `node app.js`
Server running at http://localhost:3000/
First Middleware / GET
Second Middleware / GET
```



#### EXPRESS Js 9.5 Sending Response app.use((req, res, next) => { console.log("Second Middleware", req.url, req.method); res.send('Welcome to Complete Coding'); }); ▼Response Headers localhost:3000 Raw Connection: keep-alive ① localhost:3000 Content-Length: Content-Type: text/html; ch Date: Wed, 02 Oc Welcome to Complete Coding Etag: W/"21-FoFdo J62RgMzY" Keep-Alive: X-Powered-By: Express





## 9.7 Handling Routes

EXPRESS Js

### app.use([path,] callback [, callback...])

Mounts the specified middleware function or functions at the specified path: the middleware function is executed when the base of the requested path matches path .

### **Arguments**

| Argument | Description  | Default    |
|----------|--|------------|
| path     | The path for which the middleware function is invoked; can be any of:  | '/' (root: |
|          | <ul> <li>A string representing a path.</li> <li>A path pattern.</li> <li>A regular expression pattern to match paths.</li> <li>An array of combinations of any of the above.</li> </ul> For examples, see Path examples. |            |



### 9.7 Handling Routes

EXPRESS Js

- const app = express(); app.use('/', (req, res, next) => { console.log("Hello World"); //res.send('Welcome to Submit Details Page'); next();
- app.use('/submit-details', (req, res, next) => { console.log("Second Middleware", req.url, req.method); res.send('Welcome to Submit Details Page');
- app.use('/', (req, res, next) => { console.log("Second Middleware", req.url, req.method);
  - res.send('Welcome to Complete Coding');

- 1. Order matters
- 2. Can not call next() after send()
- 3. "/" matches everything
- 4. Calling res. send implicitly calls res.end()



## 9.7 Handling Routes

EXPRESS Js

```
var express = require('express');
var app = express();

HTTP method for which the middleware function applies.

Path (route) for which the middleware function applies.

The middleware function.

app.get('/', function(req, res, next) {
    next();
})

app.listen(3000);

HTTP response argument to the middleware function,

HTTP request argument to the middleware function,
```



# 9.7 Handling Routes

```
const app = express();
app.post('/', (req, res, next) => {
  console.log("Hello World");
  //res.send('Welcome to Submit Details Page');
  next();
});

app.use('/submit-details', (req, res, next) => {
  console.log("Second Middleware", req.url, req.method);
  res.send('Welcome to Submit Details Page');
});

app.use('/', (req, res, next) => {
  console.log("Second Middleware", req.url, req.method);
  res.send('Welcome to Complete Coding');
});
```