

# Express.js

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# What is Express.js?

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1. Micro-framework (basically it just a router and request/response handler)
2. Node.js HTTP wrapper

# Getting Started

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Two ways to start with Express.js:

1. Initiate manually

```
npm init -y
```

```
npm install express
```

2. Use express generator

```
npx express-generator
```

**In this session we will  
initiate Express.js manually**

```
npm init -y
```

...

This command will create package.json file

```
npm install express
```

...

Install express.js package in node\_modules folder



```
npm install express
```

...

Install express.js package in node\_modules folder

```
npm install express
```

...

Install express.js package in node\_modules folder

```
npm i nodemon --save-dev
```

...

Install nodemon on devDependencies

# package.json

```
{
  "name": "@mul14/demo-app",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "devDependencies": {
    "nodemon": "2.0.1"
  },
  "dependencies": {
    "express": "4.17.1"
  }
}
```

# package.json

```
{
  "name": "@mul14/demo-app",
  "version": "1.0.0",
  "description": "",
  "main": "server.js",
  "scripts": {
    "start": "nodemon server.js"
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "devDependencies": {
    "nodemon": "2.0.1"
  },
  "dependencies": {
    "express": "4.17.1"
  }
}
```

# server.js

```
const express = require('express')
const app = express()
const port = 3000

app.get('/', (req, res) => res.send('Hello World!'))

app.listen(port, () => {
  console.log(`listening on port ${port}!`)
})
```

# server.js

```
const express = require('express')
const app = express()
const port = 3000

app.get('/', (req, res) => res.send('Hello World!'))

app.post('/', (req, res) => res.send('POST method'))

app.listen(port, () => {
  console.log(`listening on port ${port}!`)
})
```

# route

```
app.get('/', (req, res) => {  
  res.send('Hello World!')  
})
```

```
app.get('/items', (req, res) => {  
  res.send('All items')  
})
```

```
app.get('/item/:id', (req, res) => {  
  res.send(req.params.id)  
})
```



# req.params

http://localhost:3000/item/43

```
app.get('/item/:id', (req, res) => {  
  res.send(req.params.id) //43  
})
```

# req.query

http://localhost:3000/items?page=3&sort\_by=price

```
app.get('/items', (req, res) => {  
  res.json({  
    page: req.query.page  
    sort_by: req.query.sort_by  
  })  
})
```

# Custom HTTP Status Code

`http://localhost:3000/items`

```
app.post('/items', (req, res) => {  
  res.status(201)  
    .json({  
      message: 'Item has been created'  
    })  
})
```

# Retrieve JSON data from client

```
// http://localhost:3000/items
```

```
app.post('/items', (req, res) => {  
  const name = req.body.name  
  const age = req.body.age  
  
  res.end()  
})
```

Questions?