

Express JS notes

Set up

To create a skeleton directory structure inside a folder, type npx express-generator

```
├─ app.js
 — bin
  └── www
— package.json
 — public
  ├─ images
   ├─ javascripts
   └─ style.css
 - routes
   \vdash index.js
   └─ users.js
└─ views
   ├─ error.pug
   \vdash index.pug
   └─ layout.pug
```

Within the main folder type, npm install in order to install dependancies

To **run** the app, type DEBUG=myapp:* npm start

Basic routing

routing is how your application responds to different methods at different endpoints, eg GET /homepage, or POST /login

A route definition takes the following syntax app.METHOD(PATH, HANDLER)

- app is a refrence to express()
- METHOD is the predefined method, eg GET or POST
- PATH is the URI path, eg /homepage

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HANDLER is the function called when the route has been activated

Examples:

GET

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

PUT

```
app.put('/user', function (req, res) {
  res.send('Got a PUT request at /user')
})
```

Static files

In order to serve static files, we use the in-built middleware <code>.static()</code> function which takes the following syntax, <code>express.static(root, [options])</code>, where **root** is the root directory in which all files can be accessed. Example:

```
app.use(express.static('public'))
```

If you wish two use multiple root directories, simply call it multiple times:

```
app.use(express.static('public'))
app.use(express.static('secret'))
```

If you wish to change the virtual path of the URI, use

```
app.use('/virtualFolder', express.static('public'))
```

Now it appears that the items in the "public" folder belong to the "virtualFolder"

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```
http://localhost:3000/virtualFolder/images/kitten.jpg
http://localhost:3000/virtualFolder/css/style.css
http://localhost:3000/virtualFolder/js/app.js
http://localhost:3000/virtualFolder/images/bg.png
http://localhost:3000/virtualFolder/hello.html
```

important note: The root folder you specify is relative to where the node command is ran, so it is safer to use an absoloute path

```
app.use('/virtualFolder', express.static(path.join(__dirname, 'public')))
```

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