
Install npm

- Check Node version:

```
node -v
```

- Check npm version

```
npm -v
```

- Update npm

```
npm install npm@latest -g
```

- Install npm

```
sudo npm install npm -g
```

Express

- Installation
 - install express generator:

```
sudo npm install -g express-generator.
```

- make a new folder:

```
mkdir expressApp
```

- enter into the expressApp folder and

```
npm init  
npm install express --save
```

- create an app

```
express expressApp
```

- Errors:

1. cookie-parser not found:

- uninstall and reinstall

```
npm uninstall cookie-parser  
npm install cookie-parser
```

- N.B.: do NOT use sudo - it will install the module to system folders

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1. View - the layout(what users see) - front end.

Routes - corresponding actions of display.
app.js - like main - global variables go
public folder - all that users can see

2. Adding a new page(say About page as an example):

- add about.ejs to view folder
- add about.js to routes
- add var about and handler of requesting about to app.js

JSON

- JavaScript Object Notation.
- Often used with Ajax.

1. Data Type:

- Number: No difference between integer and floats - no need to double quoted.
- String: Unicode characters - double quotes
- Boolean
- Array: Ordered list of 0...* values
- Object: Unordered collection of key/value pairs
- Null: empty value

2. JSONLint : to validate the JSON syntax

3. JS:

- change the Object to a JSON string:

```
obj = JSON.stringify(obj);
```

- change the JSON string to object

```
obj = JSON.parse(obj);
```