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Node.js File System Module

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Node.js as a File Server

The Node.js file system module allows you to work with the file system on your computer.

To include the File System module, use the require() method:

```
var fs = require('fs');
```

Common use for the File System module:

- Read files
- Create files
- · Update files
- Delete files
- · Rename files

Read Files

The fs.readFile() method is used to read files on your computer.

Assume we have the following HTML file (located in the same folder as Node.js):

```
demofile1.html
 <html>
 <body>
 <h1>My Header</h1>
 My paragraph.
```

```
</body>
</html>
```

Create a Node.js file that reads the HTML file, and return the content:

```
var http = require('http');
var fs = require('fs');
http.createServer(function (req, res) {
   fs.readFile('demofile1.html', function(err, data) {
     res.writeHead(200, {'Content-Type': 'text/html'});
     res.write(data);
     res.end();
   });
}).listen(8080);
Run example »
```

Save the code above in a file called "demo_readfile.js", and initiate the file:

```
Initiate demo_readfile.js:
    C:\Users\Your Name>node demo_readfile.js
```

If you have followed the same steps on your computer, you will see the same result as the example: http://localhost:8080

Create Files

The File System module has methods for creating new files:

```
fs.appendFile()fs.open()fs.writeFile()
```

The fs.appendFile() method appends specified content to a file. If the file does not exist, the file will be created:

Example

Create a new file using the appendFile() method:

```
var fs = require('fs');

fs.appendFile('mynewfile1.txt', 'Hello content!', function (err) {
   if (err) throw err;
   console.log('Saved!');
});

Run example »
```

The fs.open() method takes a "flag" as the second argument, if the flag is "w" for "writing", the specified file is opened for writing. If the file does not exist, an empty file is created:

Example

Create a new, empty file using the open() method:

```
var fs = require('fs');

fs.open('mynewfile2.txt', 'w', function (err, file) {
   if (err) throw err;
   console.log('Saved!');
});
Run example »
```

The fs.writeFile() method replaces the specified file and content if it exists. If the file does not exist, a new file, containing the specified content, will be created:

Example

Create a new file using the writeFile() method:

```
var fs = require('fs');
fs.writeFile('mynewfile3.txt', 'Hello content!', function (err) {
```

```
if (err) throw err;
console.log('Saved!');
});

Run example »
```

Update Files

The File System module has methods for updating files:

```
fs.appendFile()fs.writeFile()
```

The fs.appendFile() method appends the specified content at the end of the specified
file:

```
Example
Append "This is my text." to the end of the file "mynewfile1.txt":

var fs = require('fs');

fs.appendFile('mynewfile1.txt', ' This is my text.', function (err) {
   if (err) throw err;
   console.log('Updated!');
   });

Run example »
```

The fs.writeFile() method replaces the specified file and content:

Example

Replace the content of the file "mynewfile3.txt":

```
var fs = require('fs');

fs.writeFile('mynewfile3.txt', 'This is my text', function (err) {
  if (err) throw err;
```

```
console.log('Replaced!');
});
Run example »
```

Delete Files

To delete a file with the File System module, use the fs.unlink() method.

The fs.unlink() method deletes the specified file:

```
Example
Delete "mynewfile2.txt":

var fs = require('fs');

fs.unlink('mynewfile2.txt', function (err) {
   if (err) throw err;
   console.log('File deleted!');
});

Run example »
```

Rename Files

To rename a file with the File System module, use the fs.rename() method.

The fs.rename() method renames the specified file:

```
Example
Rename "mynewfile1.txt" to "myrenamedfile.txt":

var fs = require('fs');

fs.rename('mynewfile1.txt', 'myrenamedfile.txt', function (err) {
   if (err) throw err;
```

```
console.log('File Renamed!');
});
Run example »
```

Upload Files

You can also use Node.js to upload files to your computer.

Read how in our Node.js Upload Files chapter.

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