Node.js path & os Modules

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The path & os Modules
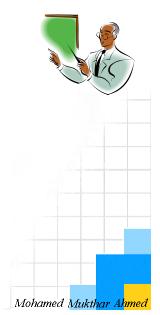
Outline

Node.js path Module

Getting path information

Working With Paths

      Common methods

Node.js Operating System (os) Module

      Common methods and properties

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Node.js **path** Module

- Every file in the file system has a path.
  - On Linux and macOS, a path might look like: **/users/mukthar/file.txt**
  - While Windows computers are different, and have a structure such as: **C:\users\muktar\file.txt**
- You need to pay attention when using paths in your applications, as this difference must be taken into account.
- You include the **path** module while using files

```
const path = require('path');
```

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Getting path information

- Given a path, you can extract information out of it using these methods:
  - **dirname**: get the parent folder of a file
  - **basename**: get the filename part
  - **extname**: get the file extension
- You include the **path** module while files using

```
const filename = 'C:\\Users\\Mukthar\\notes.txt';

dname = path.dirname(filename); // C:\Users\Mukthare
bname = path.basename(filename); // notes.txt
ext = path.extname(filename); // .txt
```

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Working with paths

- Some common methods of the **path** module

Method	Description
`path.join`	Join two or more parts of a path
`path.resolve`	Get the absolute path
`path.normalize`	Finds the actual path when it contains relative specifiers like **.** OR **..** OR **~**
`path.sep`	Path separator
`path.delimiter`	Path delimiter
`path.isAbsolute`	Returns **true** if path is absolute, **false** otherwise
`path.parse`	Return a path object component
`path.format`	Formats a path object

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Node.js **os** Module

- Common properties and methods of the **os** module

Method	Description
`os.EOL`	End of Line property
`os.constants`	OS constants – like signals etc.
`os.arch`	Returns the architecture
`os.cpus`	Information about available cpus
`os.homedir`	Home directory
`os.freemem`	Number of bytes of free memory
`os.totalmem`	Number of bytes of total memory
`os.hostname`	Host name
`os.loadavg`	Load average (Linux and macOS)
`os.networkInterfaces`	
`os.platform`	Platform that Node.js was compiled
`os.release`	OS release number

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