**Introduction to Node JS | Part 2**

* Concepts in Focus
* Core Modules
* Path
* Package
* Node Package Manager (NPM)
* Steps to create a Node JS Project
* Third-Party Packages
* date-fns

**1. Core Modules**

The Core Modules are inbuilt in Node JS.

Some of the most commonly used are:

|  |  |
| --- | --- |
| **Module** | **Description** |
| path | Handles file paths |
| fs | Handles the file system |
| url | Parses the URL strings |

**1.1 Path**

The path module provides utilities for working with file and directory paths. It can be accessed using:

const path = require("path");

**Example:**

//index.js

const path = require("path");

const filePath = path.join("users", "ravi", "notes.txt");

console.log(filePath);

**Output:**

root@123# node index.js

users/ravi/notes.txt

**2. Package**

* A package is a directory with one or more modules grouped.

**2.1 Node Package Manager (NPM)**

* NPM is the package manager for the Node JS packages with more than one million packages.
* It provides a command line tool that allows you to publish, discover, install, and develop node programs.

**2.1.1 CLI**

* NPM CLI sets up the Node JS Project to organize various modules and work with third-party packages.

|  |  |
| --- | --- |
| **Command** | **Description** |
| npm init -y | Initializes a project and creates a package.json file |
| npm install <package-name> --save | Installs the third-party packages |

**3. Steps to create a Node JS Project**

**Run the below commands in the terminal.**

* Create a new directory/folder.
* mkdir myapp
* Move into the created folder.
* cd myapp
* Initialize the project.
* npm init -y

**4. Third-Party Packages**

* The Third-Party Packages are the external Node JS Packages.
* They are developed by Node JS developers and are made available through the Node ecosystem.

**4.1 date-fns**

* It is a third-party package for manipulating JavaScript dates in a browser & Node.js.
* Installation Command:

npm install date-fns –save

**4.1.1 addDays**

It adds the specified number of days to the given date.

Example:

//index.js

const addDays = require("date-fns/addDays");

const result = addDays(new Date(2021, 0, 11), 10);

console.log(result);

Output:

root@123# node index.js

2021-01-21T00:00:00.000Z