Node.js Documentation

Module 4: Node Package Manager

What is NPM

npm (Node Package Manager) is a package manager for JavaScript, primarily used for managing dependencies of Node.js projects. It is the default package manager for the Node.js runtime environment and allows developers to share and reuse code. npm also provides a command-line interface (CLI) for interacting with the npm ecosystem.

Installing Packages Locally

To install a package locally, use the npm install command followed by the package name. This installs the package into the node_modules directory and adds it to the dependencies section of your package.json file.

npm install <package-name>

Installing Package globally

To install packages globally using npm, you use the -g flag with the npm install command. Global installation makes the package available system-wide, meaning it can be used from any directory on your system, which is particularly useful for command-line tools.

To install a package globally, use the -g flag:

npm install -g <package-name>

Adding dependencies in package.json

When you install a package using npm install, it automatically adds the package to the dependencies or devDependencies section of your package.json file, depending on the flags you use.

Adding a Dependency:

npm install <package-name> --save

The --save flag is actually the default behavior and can be omitted. This command installs the package and adds it to the dependencies section.

Updating Packages

Updating packages in a Node.js project can involve different approaches depending on the specific needs. Here's how you can update packages to the latest versions or to specific versions.

Using npm Update Command

The npm update command updates all the packages listed in the package. j son file to their latest versions, respecting the version constraints specified.

npm update

<u>Updating Specific Packages</u>

To update a single package to the latest version:

npm install <package-name>@latest