# Setup Environment for Creating Web Application

## Install Node JS on your PC:

- Visit the website https://nodejs.org/en/
- Download and Install the setup on your PC.  [Download 14x Version]
- Check the version of Node JS and Package Manager "NPM" o Open Your Command Prompt

> **node -v**
> **npm -v**

## FAQ: What is Package Manager?

- Package Manager is a software tool used to download and installvarious libraries required for project.

- **NPM**
- NuGet
- RubyGEMS
- Yarn
- Bower

## Download and Install Visual Studio Code [IDE]

- Visual Studio Code provides an Integrated Development Environment for building, debugging, testing and deploying application.
- For more editors you can visit https://editorconfig.org/
- Download Visual Studio Code **https://code.visualstudio.com/**

## Install Following Extensions in Visual Studio Code:

- Open Visual Studio Code
- Go to "Extensions"

- Search and Install following Extensions ○ **Live Server** ○ **Vscode-icons**
- **Live Server** is required to run our project on local live server.
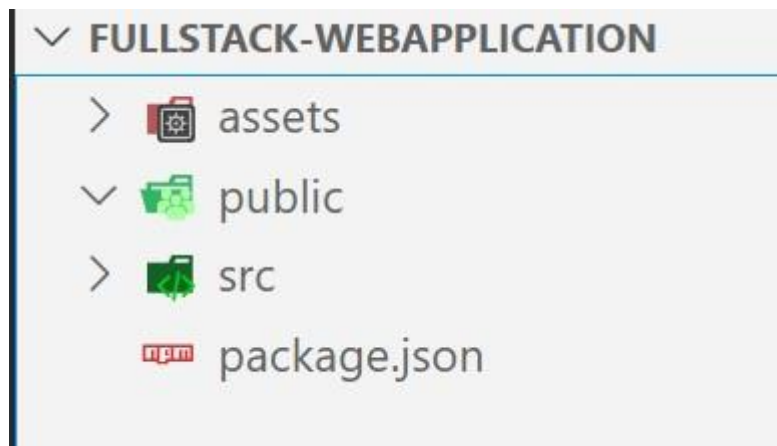- **Vscode-icons** are required to displaying friendly icons for files.

## Create a new Web Application:

- Open your file explorer on PC
- Create a new folder for project
  **"C:\FullStack-WebApplication"**
- Open Visual Studio Code
- **File Menu -> Open Folder -> C:\FullStack-WebApplication**
- Open Terminal or Open folder location in command prompt
  [Ctrl + `] (backtick) | **Go to Terminal Menu -> New Terminal**
- Run the following command
  C:\FullStack-WebApplication> **npm init**
- This will generate "package.json" file **What is "package.json"?**

- It comprises of Meta Data
- Information about your project
- It includes project Name, Version, Keywords, Dependencies etc.

## Web Application File Structure:

- Add following folders into project ○ public ○ src ○ assets

| Folder | Description |
|--------|-------------|
| public | It comprises of static files, like .html |
| src | It comprises of dynamic files like ".js, .css, .less" etc |
| assets | It comprises of images, icons, logos, text, pdf etc.. |

Create a start up file for Project "index.html" in "public" folder