**How to create an Angular project from Scratch**:

**Pre-requisite:**

**1.Install Node.js and npm:**

Installing Node.js is essential when creating an Angular application because it provides the runtime environment for executing JavaScript code outside a web browser. Node.js also includes npm (Node Package Manager), which is crucial for managing the dependencies and packages required for Angular development.

Here's a flow diagram to illustrate the process:

graph TD;

A[Install Node.js] --> B[Install Angular CLI using npm];

B --> C[Create Angular Application];

C --> D[Install Dependencies];

D --> E[Develop Application];

E --> F[Build and Deploy Application];

Steps Explained:

1. Install Node.js: Node.js is installed to provide the necessary runtime environment for JavaScript and to use npm.
2. Install Angular CLI using npm: The Angular Command Line Interface (CLI) is installed using npm to facilitate the creation, development, and management of Angular applications.
3. Create Angular Application: Using Angular CLI, a new Angular project is initialized with the necessary boilerplate code.
4. Install Dependencies: npm is used to install all required packages and dependencies specified in the package.json file.
5. Develop Application: The application is developed using Angular's framework, components, services, and other features.
6. Build and Deploy Application: The application is built into a production-ready format and deployed to a web server.

**2**. **Install Angular CLI**:

* Open your terminal or command prompt.
* Run the following command to install the Angular CLI globally:

**npm install -g @angular/cli**

The command npm install -g @angular/cli is used to install the Angular Command Line Interface (CLI) globally on your system. This allows you to use Angular CLI commands from any directory on your computer to create, develop, and manage Angular applications.

**Command Line Interface (CLI):**

A Command Line Interface (CLI) is a text-based interface used to interact with software and operating systems. Unlike graphical user interfaces (GUIs) that rely on visual elements like buttons and icons, a CLI allows users to type commands directly into a console or terminal to perform tasks.

(or)

A Command Line Interface (CLI) is a tool that allows users to interact with a computer program by typing text commands. It's a powerful way to control software and perform tasks efficiently.

**Key Features of a CLI:**

1. **Text-Based Interaction**: Users type commands to execute specific tasks.
2. **Efficiency**: Often faster for experienced users, as tasks can be performed quickly without navigating through menus.
3. **Automation**: Scripts can be written to automate repetitive tasks.
4. **Flexibility**: Provides access to a wide range of functions and options that might not be available through a GUI.
5. **Resource-Light**: Consumes fewer system resources compared to GUIs.

**Example:**

When you use the Angular CLI, you can create a new Angular project by typing:

ng new my-angular-app

This command initializes a new Angular project with all the necessary files and configurations.

Add path in env variables:

C:\Users\10736967\AppData\Roaming\npm

3. **Create a New Angular Project**:

Use the Angular CLI to create a new project. Replace my-app with your desired project name

ng new media-service-app

4. **Serve the Application**:

Start the development server to see your application in action:

ng serve