

Web Development and Angular



Web Development :

Web development is the process of creating applications or websites that can be accessed through the internet. It involves a combination of technologies to build the frontend (what users see) and the backend (the server-side logic).

Key Technologies:

•HTML: The structure of a webpage.

•CSS: The styling of a webpage.

•JavaScript: The behavior and interactivity of a webpage.

Frontend Development:

Focuses on the user interface and experience.

- •Frameworks: React, Angular, Vue
- •Libraries: jQuery, Bootstrap

Backend Development:

Handles server-side logic, databases, and APIs.

- •Languages: Python, Ruby, JavaScript (Node.js), PHP
- •Frameworks: Django, Ruby on Rails, Express.js
- •Databases: MySQL, PostgreSQL, MongoDB

Angular

Angular is a popular TypeScript-based open-source framework for building dynamic web

applications. It's part of the MEAN (MongoDB, Express.js, Angular, Node.js) and MERN

(MongoDB, Express.js, React, Node.js) stacks.

Key Features:

•Component-based architecture: Breaking down the UI into reusable components.

•TypeScript: A superset of JavaScript that adds static typing.

•Dependency injection: Managing dependencies effectively.

•Data binding: Synchronizing data between the model and the view.

•Routing: Navigating between different views within the application.

•Angular CLI: A command-line interface for creating, developing, and serving Angular applications.

Topics to Learn:

•Core Angular concepts: Components, modules, services, dependency injection, routing,

forms.

•TypeScript: Syntax, types, interfaces, classes.

•HTML and CSS: Building the structure and styling of components.

•JavaScript: Understanding the fundamentals for interacting with the DOM.

•HTTP: Making requests to backend servers.

•Reactive programming: Using RxJS for asynchronous operations.

•Angular Material: Pre-built UI components for faster development.

•Testing: Writing unit and integration tests.