TFull stack development

Catalog

<u>Full Stack Development</u>

Full Stack Development refers to the practice of building both the **frontend (client-side)** and **backend (server-side)** of a web application. A **Full Stack Developer** is skilled in multiple technologies, including databases, APIs, user interfaces, and server management.

Frontend Development

1. HTML (HyperText Markup Language)

HTML is the standard markup language used to structure web content. It defines elements like headings, paragraphs, images, forms, and links to create the basic framework of a webpage.

2. CSS (Cascading Style Sheets)

CSS is used to style and design HTML elements by applying properties like colors, fonts, layouts, and responsiveness. CSS can be written inline, internally, or externally.

3. JavaScript (js)

JavaScript is a programming language that makes web pages dynamic and interactive. It allows for event handling, animations, form validations, and API requests.

4. React (JavaScript Library)

React is a frontend library developed by Facebook that allows developers to build reusable UI components for fast, scalable applications using a virtual DOM for efficient updates.

Backend Development

1. Java (Backend Programming Language)

Java is an object-oriented, high-performance programming language widely used for backend development due to its security, scalability, and platform independence.

2. Advanced Java & OOPs (Object-Oriented Programming)

Advanced Java includes concepts like servlets, JSP, JDBC, and multithreading, while OOPs principles (Encapsulation, Inheritance, Polymorphism, Abstraction) make Java programs modular and reusable.

3. **Spring Boot (Java Framework)**

Spring Boot simplifies backend development by providing built-in configurations for creating RESTful APIs, handling database connections, and integrating authentication.

4. **API (Application Programming Interface)**

An API allows communication between different software applications. RESTful APIs use HTTP methods like GET, POST, PUT, and DELETE to transfer data.

Column:

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<u>ORIENTATION</u>

Landscape

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