INTERSKILL SOLUTIONS

INTRODUCTION TO FULLSTACK WEB DEVLOPMENT

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LECTURE 1

WHAT IS FULL STACK DEVELOPMENT?

- BUILDING BOTH FRONTEND (UI) AND BACKEND (LOGIC + DATABASE) OF APPLICATIONS.
- A FULL STACK DEVELOPER CAN MANAGE THE ENTIRE PROJECT END-TO-END.

📍 Example: Login Page

- Frontend: Login form (HTML, CSS, React)
- Backend: Validates login (Node, Express)
- Database: Stores user credentials (MongoDB)

COMPONENTS OF FULL STACK

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FRONTEND (CLIENT-SIDE)

- What the user sees (UI/UX)
- Technologies: HTML, CSS, JavaScript, React

BACKEND (SERVER-SIDE)

- Logic, APIs, Authentication
- Technologies: Node.js, Express

DATABASE

- Stores data permanently
- Technology: MongoDB , MY SQL

DEVELOPER ROLES

INTERSKILL SOLUTIONS

FRONTEND DEVELOPER
→ UI/UX, DESIGN, RESPONSIVE WEBSITES

BACKEND DEVELOPER
→ APIS, SECURITY, DATABASE HANDLING

FULL STACK DEVELOPER
→ COMBINES BOTH ROLES

Analogy (to make it fun):

Frontend Developer → Interior Designer (makes house look good).

Backend Developer → Engineer/Plumber (handles electricity, water, wiring).

Full Stack Developer → Architect (knows both design + engineering).

WHY FULL STACK DEVELOPMENT?

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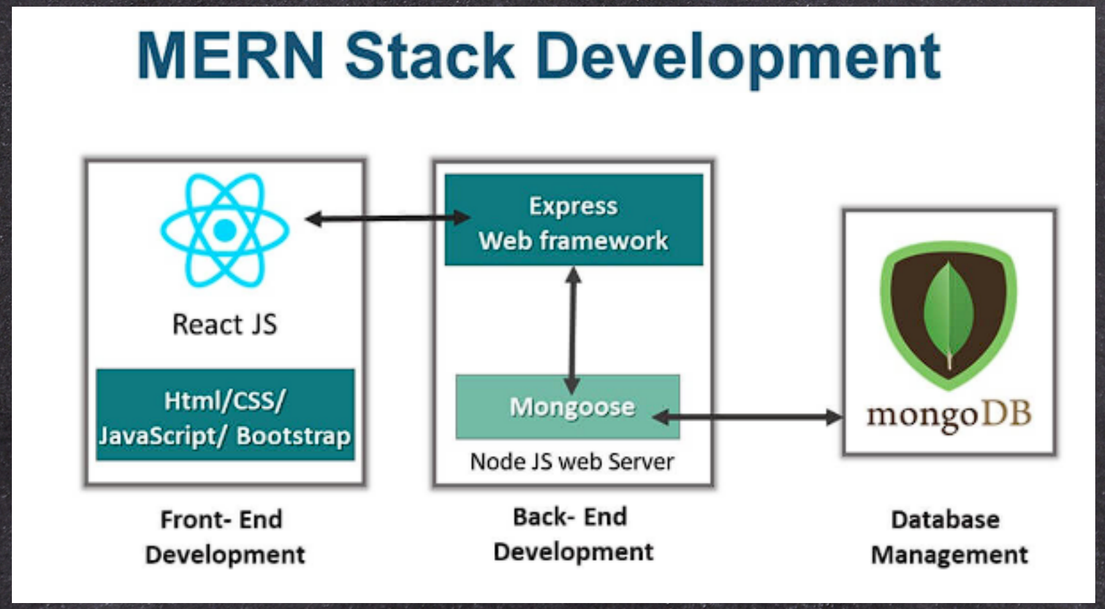
- High demand in IT industry 🚀
- Versatile: Work on both frontend + backend
- Freelancing opportunities
- Startup-friendly skill set
- Example: Amazon, Swiggy, Netflix use full stack

WHAT IS MERN STACK

MERN = MongoDB + Express + React + Node.js

- M (MongoDB): NoSQL database for documents
- E (Express.js): Backend framework for APIs
- R (React.js): Frontend library for UI
- N (Node.js): JS runtime for server-side



MERN Stack Workflow

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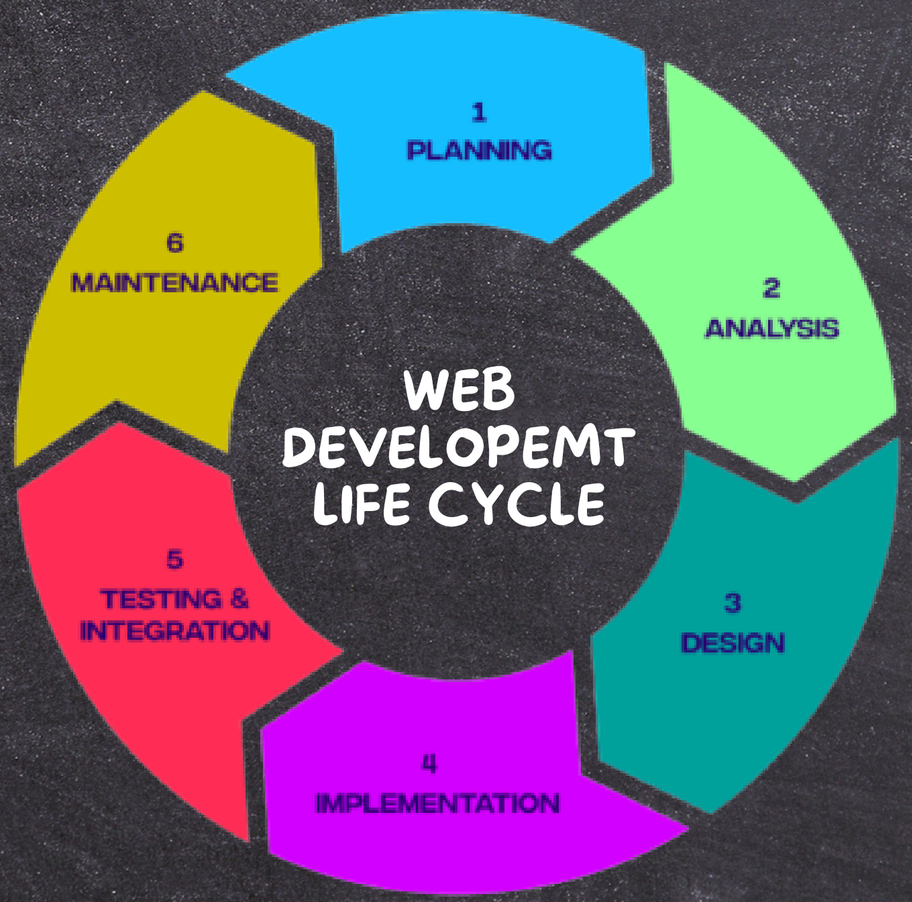

CONCLUSION

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Recap

- Full Stack = Frontend + Backend + Database
- MERN = MongoDB, Express, React, Node
- Full Stack Developers are in high demand
- Example: Every modern app needs all 3 layers