MEAN Stack + Front-End 6-Month Learning Roadmap

Month 1 – Front-End Basics (HTML, CSS, JS Fundamentals)

- Goal: Understand how websites are structured and styled.
- Learn: HTML5, CSS3, JavaScript basics (variables, loops, arrays, functions).
- Tools: VS Code, Chrome DevTools, Git + GitHub.
- Mini-Projects: Personal Portfolio, Product Landing Page, To-Do List.

Month 2 – Advanced JavaScript + TypeScript + Angular Basics

- Goal: Build dynamic front-end apps.
- Learn: DOM manipulation, ES6 features, APIs & JSON, TypeScript basics, Angular setup.
- Mini-Projects: Weather App using API, Angular User List App.

Month 3 – Angular Deep Dive

- Goal: Master front-end app development.
- Learn: Routing, Forms, Services, Dependency Injection, HttpClient, Angular Material.
- Mini-Projects: Blog App or Simple E-commerce Front-End.

Month 4 – Back-End Development (Node.js + Express.js)

- Goal: Create REST APIs and server logic.
- Learn: Node.js fundamentals, Express.js routing and middleware, RESTful APIs, error handling.
- Mini-Projects: User/Product REST API, Authentication System (JWT).

Month 5 – Database (MongoDB) + Full Stack Integration

- Goal: Connect back-end with front-end.
- Learn: MongoDB CRUD, Mongoose, schema design, connecting Angular with Node.js API, JWT Auth.
- Mini-Projects: Full Stack To-Do App or Blog with Login/Signup.

Month 6 – Deployment + Major Project

- Goal: Build and deploy a complete full-stack app.
- Learn: Env variables, CORS, hosting (Netlify, Render, MongoDB Atlas), GitHub version control.
- Major Project Ideas: E-commerce Site, Social Media Mini App, Task Management System.

Tips for Success

- Build small projects weekly.
- Use official documentation frequently.
- Push code to GitHub regularly.
- Revise concepts every weekend.
- Take 1–2 days each month for review and polishing.