

100 Days Web Development Challenge (JS + Projects Focus)

Phase 1: JavaScript Basics (Day 1–25)

Goal: Learn JS fundamentals with mini-projects.

- **Day 1–2:** JS setup, variables (var, let, const), data types, console.log.
- **Day 3–4:** Operators, conditionals (if, else, switch).
- **Day 5–6:** Loops (for, while, do-while) + mini-project: **Number guessing game**.
- **Day 7–8:** Functions (declaration, arrow functions) + mini-project: **Tip calculator**.
- **Day 9–10:** Arrays & basic array methods (push, pop, shift, unshift) + mini-project: **Grocery list manager**.
- **Day 11–12:** Objects & object methods + mini-project: **Student report card generator**.
- **Day 13–14:** DOM basics: select elements, change text & style + mini-project: **Dynamic greeting page**.
- **Day 15–16:** Events (click, input, hover) + mini-project: **Interactive color changer**.
- **Day 17–18:** Advanced arrays (map, filter, reduce) + mini-project: **Todo list (console version)**.
- **Day 19–20:** Template literals, destructuring, spread/rest operators.
- **Day 21–22:** JSON, localStorage + mini-project: **Save user preferences (dark/light mode)**.
- **Day 23–25 Project:** **Small portfolio page with JS features** (interactive menu, changing themes, greeting message).

Phase 2: JavaScript Projects & APIs (Day 26–50)

Goal: Build useful projects while learning JS deeper.

- **Day 26–28:** Calculator (basic arithmetic + DOM)
- **Day 29–31:** Digital clock / countdown timer
- **Day 32–34:** Quiz App (MCQs + scoring)
- **Day 35–37:** Weather App using OpenWeather API

- **Day 38–40:** Currency Converter App (ExchangeRate API)
 - **Day 41–43:** Recipe Finder App (MealDB API)
 - **Day 44–46:** Meme Generator (random memes API)
 - **Day 47–50 Project: Interactive Notes App** (create, edit, delete notes, localStorage)
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Phase 3: Advanced JS + UI (Day 51–65)

Goal: Learn advanced JS techniques + UI improvements.

- **Day 51–53:** DOM manipulation deep dive + mini-project: **Dynamic To-Do list with categories**
 - **Day 54–56:** Event delegation + mini-project: **Interactive gallery**
 - **Day 57–59:** Animations, transitions, CSS + JS + mini-project: **Slider / Carousel**
 - **Day 60–62:** Form validation + mini-project: **Signup form with real-time feedback**
 - **Day 63–65 Project: Portfolio Website v2** (interactive sections, animations, forms)
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Phase 4: Backend Basics + Databases (Day 66–80)

Goal: Learn Node.js, Express, MongoDB through small projects.

- **Day 66–68:** Node.js setup, npm, modules, basic server
 - **Day 69–71:** Express.js routes, middleware, REST API basics
 - **Day 72–74:** MongoDB CRUD operations
 - **Day 75–77:** Connect Express to MongoDB + mini-project: **Simple Notes API**
 - **Day 78–80 Project: User Authentication (register/login)**
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Phase 5: Full-Stack Projects (Day 81–95)

Goal: Combine frontend + backend + database in real apps.

- **Day 81–83 Project: Full-Stack To-Do App** (CRUD + localStorage + DB)
- **Day 84–86 Project: Weather Dashboard (Backend API + frontend)**

- **Day 87–89 Project: Blog Platform** (create posts, read posts, delete posts)
 - **Day 90–92 Project: Task Manager App with Auth**
 - **Day 93–95 Project: Recipe App with search + favorites (Full-Stack)**
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Phase 6: Capstone & Portfolio (Day 96–100)

Goal: Build **showcase projects** for portfolio.

- **Day 96–97 Capstone 1: E-commerce Website (Product listing + Cart + Checkout)**
- **Day 98–99 Capstone 2: Real-Time Chat App (Socket.IO + DB)**
- **Day 100 Final Capstone: Portfolio Website (Full-Stack, showcase all projects)**