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# Project Template ? Next.js + TypeScript + Tailwind v4 (config-less) + ESLint (flat) + Vitest
+ Copilot
A reusable starter you can clone for new apps. Batteries included:

    Next.js (App Router), TypeScript, **Tailwind v4 (no 'tailwind.config.*')**

- ESLint (flat config) + Prettier wired to VS Code on save
- Vitest + React Testing Library (+ providers helper)
- VS Code workspace files ('.vscode')

    Copilot prompt playbook ('.copilot/prompts')

- Dual dev servers: **Turbopack** (fast) and **Webpack** (fallback)
## Requirements
- Node LTS (? 18)
- pnpm (? 8)
> Tip: keep pnpm in sync
> 'corepack enable && corepack prepare pnpm@latest --activate'
## Getting Started
"bash
pnpm install
pnpm dev
               # Turbopack (fast)
# or:
pnpm dev:web # Webpack (fallback)
Open http://localhost:3000
## Scripts
"json
 "dev": "next dev --turbopack",
 "dev:web": "next dev --no-turbo",
 "build": "next build --turbopack",
 "start": "next start",
 "lint": "eslint .",
 "lint:fix": "eslint . --fix",
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"test": "vitest",

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"test:run": "vitest run",
 "test:coverage": "vitest run --coverage"
}
"
## VS Code
This repo includes workspace files so everyone shares the same tooling:
- **'.vscode/extensions.json'**? recommended extensions (Copilot, ESLint, Prettier, Tailwind
CSS IntelliSense, Vitest Explorer, GitLens, etc.)
- **'.vscode/settings.json'** ? use project TS SDK, run ESLint fixes + organize imports on
save, Tailwind IntelliSense (incl. 'cva()' / 'tv()' regex)
- **'.vscode/tasks.json'** ? run 'dev', 'dev:web', 'build', 'start' from the Task Runner
- **'.vscode/launch.json'** ? debug **Next.js dev** and **Vitest current file**
## Tailwind v4 (config-less)
- This template uses **Tailwind v4** in **zero-config** mode ? there is **no**
'tailwind.config.*' file.
- Tailwind v4 directives are already present in 'src/app/globals.css'.
- If you later need deep customization, you can add a 'tailwind.config.*' file; it?s not
required for most apps.
> We intentionally **do not** include 'eslint-plugin-tailwindcss' because current releases
conflict with Tailwind v4 internals. VS Code?s Tailwind IntelliSense still provides class
completion and validation.
## Linting & Formatting
- Flat config: 'eslint.config.mjs'
- Prettier: '.prettierrc'
On save, VS Code:
- Formats with Prettier
- Applies ESLint fixes and organizes imports
Run manually:
```

"bash

pnpm run lint

```
pnpm run lint:fix
## Testing
- Runner: **Vitest** (JSDOM)
- Config: 'vitest.config.ts' (uses '@vitejs/plugin-react' + 'vite-tsconfig-paths')
- Global setup: 'src/test/setup.ts'
- Helper: 'src/test/renderWithProviders.tsx'
Example: 'src/app/__tests__/page.test.tsx'
First run:
"bash
pnpm test
# or non-watch:
pnpm test:run
# with coverage:
pnpm test:coverage
**Notes**
- JSX in tests works via '@vitejs/plugin-react' (no need to 'import React').
- 'next-themes' is mocked in 'src/test/setup.ts' to avoid hook-context errors during unit
tests.
## Copilot Prompt Playbook
Reusable prompts live in **'.copilot/prompts/'**:
- 'refactor-guardrails.md'? safer refactors (types, a11y, Tailwind ordering)
- 'tests-vitest.md'? generate RTL tests (AAA structure, a11y-first)
- 'commit-style.md' ? Conventional Commits
**How to use**
In Copilot Chat:
"
@workspace /open .copilot/prompts/refactor-guardrails.md
Click **Use as system prompt**, then ask for the refactor and apply the diff.
```

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Inline Chat (**Cmd+Shift+I**) works great for small/local changes.
## Project Structure
"txt
.vscode/
                  # workspace settings, tasks, launch, extension recs
.copilot/prompts/
                     # prompt playbook for Copilot
src/
                 # Next.js App Router
 app/
 app/globals.css
                     # Tailwind v4 directives live here (no tailwind.config.*)
 test/
  renderWithProviders.tsx
                  # JSDOM, RTL cleanup, minimal mocks (e.g., next-themes)
  setup.ts
eslint.config.mjs
                    # flat config (typed TS rules + React/a11y/imports)
                   # Vitest + vite-tsconfig-paths + @vitejs/plugin-react
vitest.config.ts
                      # PostCSS pipeline (used by Tailwind v4)
postcss.config.mjs
tsconfig.json
                   # baseUrl + paths + test typings (vitest/jest-dom)
## 2-Minute Smoke Test
1. **Dev server** ? 'pnpm dev' ? open the app.
2. **Format/Lint** ? add sloppy code and **Save** ? auto-format + ESLint fixes.
3. **Tests** ? 'pnpm test' ? example spec passes.
4. **Copilot** ? select a component ? **Cmd+Shift+I** ?
  ?Refactor into smaller components using '@workspace /open .copilot/prompts/refactor-
quardrails.md'?? apply diff.
5. **Tailwind IntelliSense** ? in 'className=""' and inside 'cva()'/'tv()', type 'bg-' and
```

confirm suggestions.