# MyCritters Developer Onboarding – Kanban Board Project

Updated: 6/23/2025

Welcome to the MyCritters engineering team! This onboarding project will give you hands-on experience with the exact stack we use every day:

- TypeScript our language of choice
- React & Next.js (App Router) UI & full-stack framework
- Tailwind CSS + Shadcn/ui rapid, accessible styling
- Nhost (Hasura + Postgres) instant backend, auth, storage, realtime GraphQL You'll ship a Trello-style kanban board, deployed on Vercel, in 1–2 weeks.

• Apollo GraphQL Client & GraphQL Code Generator – typed data layer

Al is your friend. Use tools like *v0.dev*, *Claude*, or *ChatGPT* for snippets—focus on working

It is recommended to pre-read the entire onboarding document before starting.

# 0 Project Goals

- 1. Get productive in TypeScript
- 2. React hooks & component thinking

features over pixel-perfect polish.

- 3. Use the Next.js App Router for a full-stack app 4. Style with Tailwind + Shadon/ui
- 5. Fetch & mutate data via Apollo GraphQL with fully-typed hooks
- 6. Leverage Nhost for DB, auth, storage, and realtime GraphQL

Notes

- 7. Deliver a kanban board clone deployed on Vercel

### Tool

1 Prerequisites

```
If you're on Windows, enable WSL 2 and install Ubuntu so
Windows users install WSL2
                             all bash commands run natively. You will want to develop in
                             this Linux environment. Follow Microsoft's setup guide:
                             https://learn.microsoft.com/windows/wsl/install
                             pnpm 10 (use pnpm as a node version manager Install and
Package manager
                             manage Node.js versions using PNPM)
Node.js
                             ≥ 20 LTS
Git + GitHub account
                             Create a public repo named kanban-board in your
                             account. (Interactive Git Refresher)
VS Code
                             Recommended Extensions:
                             dbaeumer.vscode-eslint,
                             esbenp.prettier-vscode,
                             GraphQL.vscode-graphql-syntax,
                             herrmannplatz.npm-dependency-links,
                             bradlc.vscode-tailwindcss,
                             csstools.postcss,
                             mikestead.dotenv,
                             tamasfe.even-better-toml,
                             donjayamanne.githistory,
                             herrmannplatz.npm-dependency-links
                             Cloud Free tier
Nhost account
                             Join #dev-onboarding channel: https://
Discord (MyCritters server)
                             discord.gg/38zwakHa
                             Use this discord channel to ask questions if you need help
                             with your onboarding project.
```

## Optional if you are already experienced in TypeScript.

2 TypeScript



Learn (choose one)

YouTube - TypeScript Crash Course

YouTube - TypeScript Tutorial for Beginners

- TypeScript Handbook Intro
- **3 ReactJS Refresher**

Optional if you are already experienced in React.



### Exercise

Learn

Create <Counter initial={0} /> using useState (file src/components/Counter.tsx ).

React Official Tutorial

# Milestone REACT-READY – commit src/components/Counter.tsx.

4 Next.js Introduction Optional if you are already experienced in Next.



### Do npx create-next-app@latest kanban-board --ts --tailwind --app

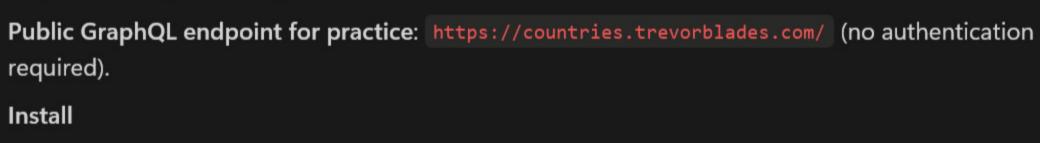
required).

**NextJS Docs** 

cd kanban-board

- 2. Add src/app/about/page.tsx page and src/app/api/hello/route.ts route. 3. Initialize Shadcn/ui: npx shadcn-ui@latest init.
- Milestone NEXT-READY commit new pages and Shadon Button demo.
- 5 Apollo & GraphQL Codegen Optional if you are already experienced in GraphQL.

GraphQL Codegen Getting Started



# Install

pnpm add @apollo/client @apollo/client-integration-nextjs graphql pnpm add -D @graphql-codegen/cli @graphql-codegen/typescript @graphql-codegen/typescrip t-operations @graphql-codegen/typescript-react-apollo

**Exercise** 1. Add src/graphql/queries.graphql with: GraphQL

- 🖺 Сору query GetCountries{ countries { code name
- Milestone GQL-READY commit generated types + src/app/contries/page.tsx. **6 Nhost Integration**

3. Render the query in src/app/contries/page.tsx.

2. Configure codegen.ts then run pnpm graphql-codegen.

Optional if you are already experienced in Nhost.

3. Add src/lib/nhost.ts and wrap app with NhostReactProvider & ApolloProvider.

Done / 3

Chocolate Cupcake

Caramel Cupcake

Velvet Cupcake

Coffee Cupcake

Add pulse

Test / 0

+ Add pulse

### Do 1. npx nhost init inside repo; enable Email/Password auth.

2. Create tables: boards, columns, cards.

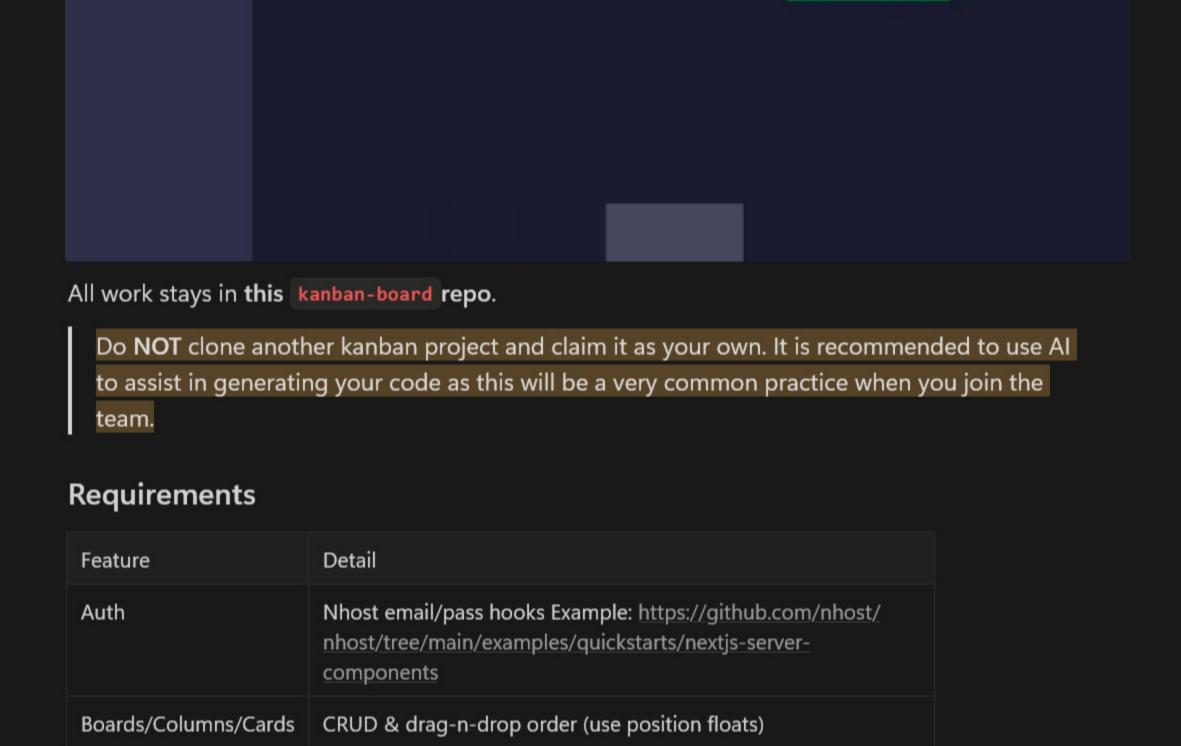
Nhost NextJS Quickstart

■ Cupcakes Factory Kanban •

4. Build a basic Board List page using useBoardsQuery.

- Milestone NHOST-READY commit auth flow + board list. 7 Capstone – Kanban Board Clone (Required for Demo Interview)
- Not started / 0 Vanilla Cupcake Caramel Cupcake (copy)

+ Add pulse



GraphQL subscriptions for live sync Example: https://

installation/framework-guides/nextjs

github.com/vercel/next.js/tree/canary/examples/with-apollo

Tailwind + Shadcn/ui Example: https://tailwindcss.com/docs/

### Styling Deployment

Realtime

2. Drag & drop (@hello-pangea/dnd or @dnd-kit). 3. Subscriptions for multi-client syncing. 4. Env vars on Vercel (deploying to Vercel needs to know about the Nhost backend).

Implementation Checklist

1. Board list → Board view routing.

• Commits: Conventional Commits

Milestone KANBAN-FINAL – open a Pull Request to main with complete features & updated README.md. Merge feature branch to main and verify Vercel has your latest version.

Vercel (Hobby)

9 Best Practices & Workflow Branch naming: feature/xyz , bugfix/xyz

name: CI on: [push, pull\_request] jobs: build runs-on: ubuntu-latest steps: uses: actions/checkout@v3 uses: pnpm/action-setup@v2 pnpm-version: 8 - run: pnpm install - run: pnpm run lint

• CI (GitHub Actions) – lint, codegen, build (see .github/workflows/ci.yml sample below)

- run: pnpm graphql-codegen - run: pnpm run build
- **10 Submission Checklist** ☐ Milestone KANBAN-FINAL complete Send message in Indeed with GitHub Project URL and running app in Vercel URL.
- ☐ Make sure your webcam and Vercel project are working prior to the interview. Interview where you walk us through your Kanban project. Assuming everything checks out, you will be sent a job offer letter and an NDA that must be signed and sent back.

Pick an interview time on Google Calendar <a href="https://calendar.app.google/uwCZm4MRTuUwi8Z2A">https://calendar.app.google/uwCZm4MRTuUwi8Z2A</a>.

Start your first day — happy coding!

This document may get updated. Do a force refresh to get the latest version. Windows: CTRL + Shift + R Mac: Command (%) + Shift + R or Command (%) + Option + R