

Tech Workshop #8

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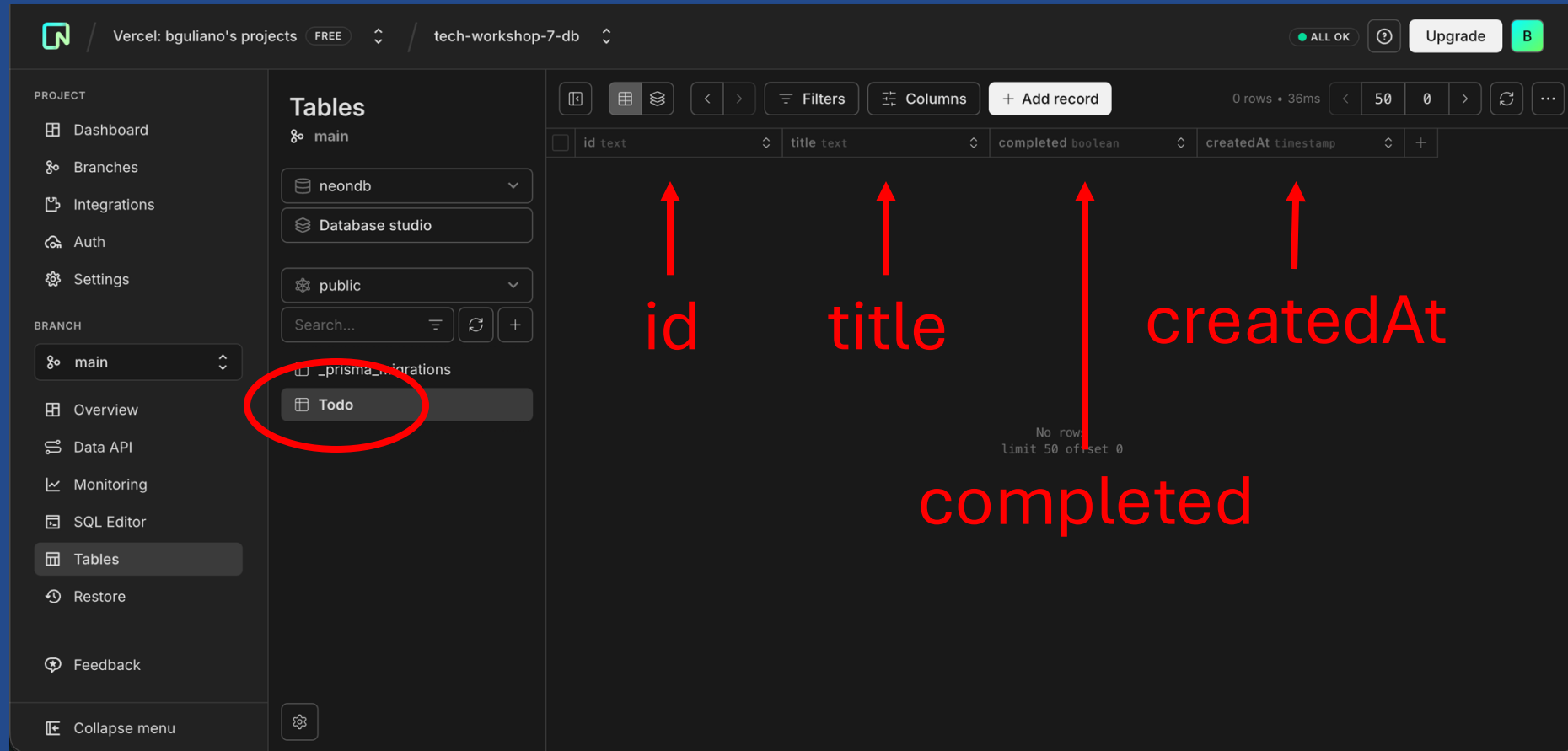
Before we start...



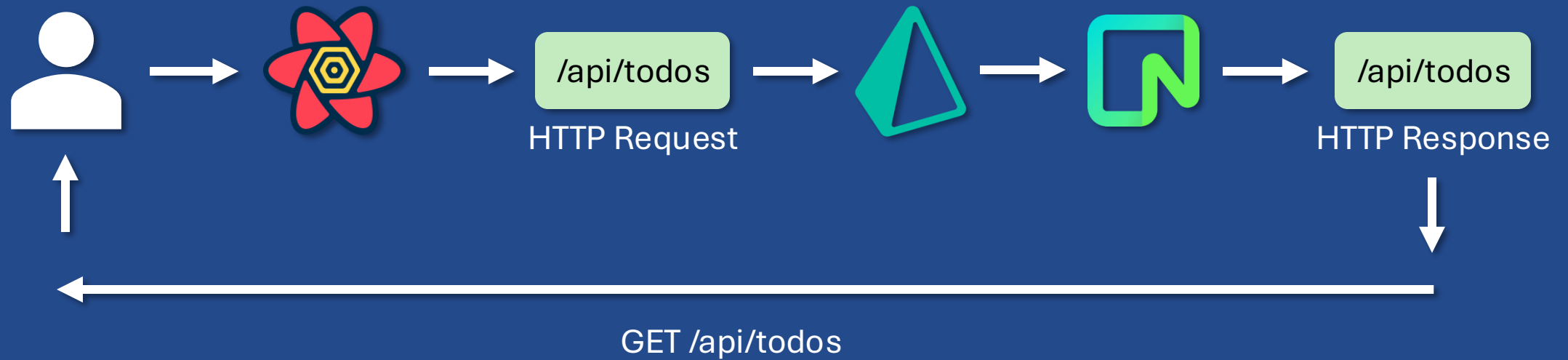
Agenda

1. Backend (cont.)
2. Responsivity
3. Questions + working time

Prisma migrate



API routing



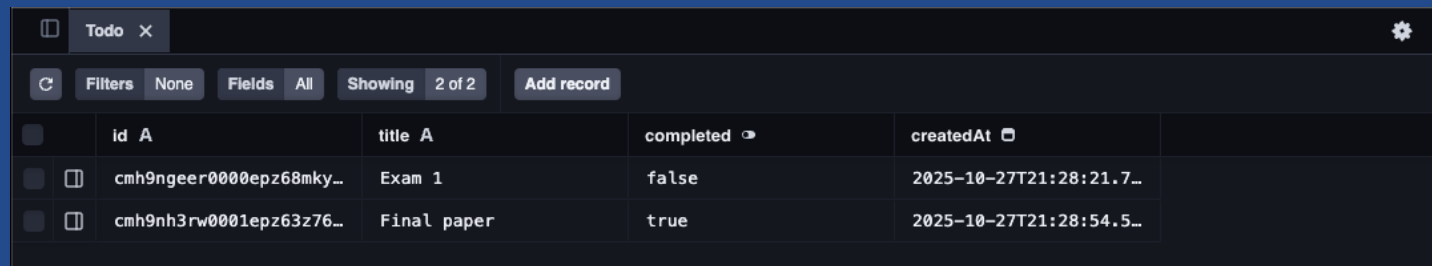
UI connection

```
npm install @tanstack/react-query
```



Local Prisma studio

```
npx prisma studio
```



The screenshot shows the Prisma Studio web interface. At the top, there's a tab labeled 'Todo' with a close button. Below the tab, there's a toolbar with a refresh icon, 'Filters' (set to 'None'), 'Fields' (set to 'All'), 'Showing 2 of 2', and an 'Add record' button. The main area displays a table with two columns: 'id' and 'title'. The first row has 'cmh9ngeer0000epz68mky...' and 'Exam 1'. The second row has 'cmh9nh3rw0001epz63z76...' and 'Final paper'. The 'completed' column shows 'false' and 'true' respectively. The 'createdAt' column shows timestamps.

	id A	title A	completed ▾	createdAt ▾
<input type="checkbox"/>	cmh9ngeer0000epz68mky...	Exam 1	false	2025-10-27T21:28:21.7...
<input type="checkbox"/>	cmh9nh3rw0001epz63z76...	Final paper	true	2025-10-27T21:28:54.5...

Neon cloud storage

The screenshot displays the Neon Cloud Storage interface. At the top, the Vercel logo and project name 'Vercel: bguliano's projects' are shown, along with a 'FREE' label and a dropdown menu. The main interface is divided into three sections: a left sidebar, a middle panel, and a right table view.

Left Sidebar:

- PROJECT**
 - Dashboard
 - Branches
 - Integrations
 - Auth
 - Settings
- BRANCH**
 - main
- Navigation**
 - Overview
 - Data API
 - Monitoring
 - SQL Editor
 - Tables**
 - Restore

Middle Panel:

- Tables**
 - main
 - neondb
 - Database studio
 - public
 - Search...
 - _prisma_migrations
 - Todo**

Right Table View:

Buttons: [Table Icon] [Grid Icon] [List Icon] [Back] [Forward] [Filters] [Columns] [+ Add record]

<input type="checkbox"/>	id text	title text	completed boolean	createdAt timestamp	+
<input type="checkbox"/>	cmh9ngeer0000epz68mkye...	Exam 1	FALSE	2025-10-27 21:28:21.747	
<input type="checkbox"/>	cmh9nh3rw0001epz63z762...	Final paper	TRUE	2025-10-27 21:28:54.59	

How does this work in production?

- Yes, the DATABASE_URL env var is needed to talk to the Neon database
- But...in production, Vercel automatically (and securely) injects it into the deployed backend environment
- All API functions run on Vercel's servers, not on the client's device



Responsivity

- What?
 - The ability of your web app to look and behave seamlessly across different browser types
- Why?
 - Users expect perfect or nearly perfect UX on every device
 - 60%+ of web traffic is mobile users
 - Good responsiveness improves SEO (credibility + conversions)



Tailwind

- Start mobile-first, then build up
- Use Tailwind layout utilities (not custom CSS!)
- Avoid hard-coding sizes as much as possible
 - But at the very least, do not use pixel sizing (px)

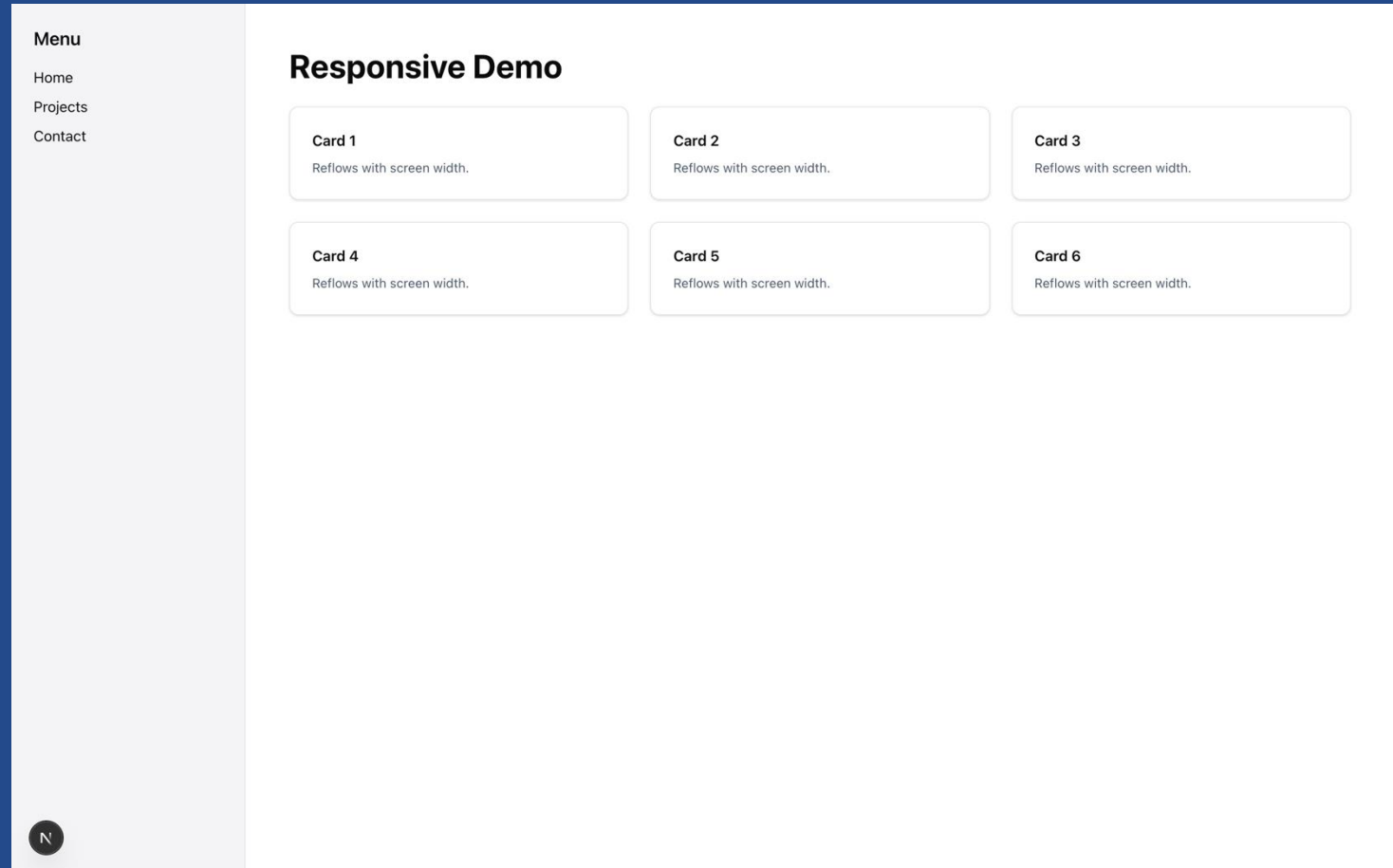
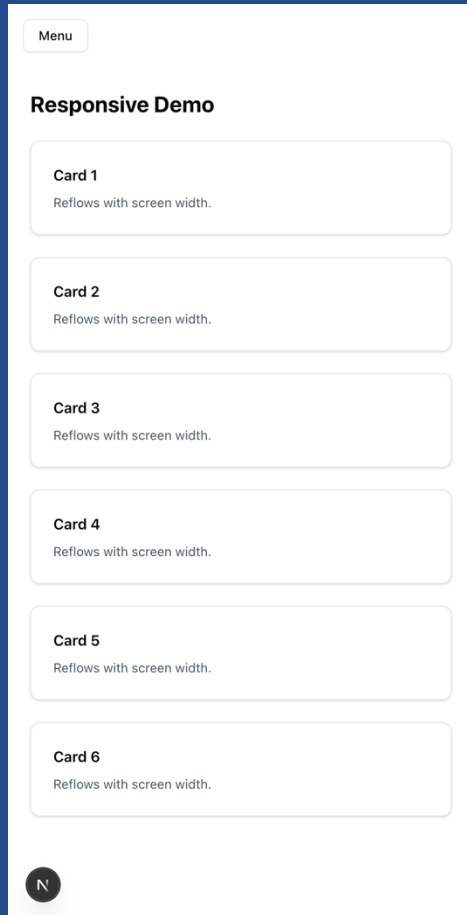
```
<h1 className="text-2xl lg:text-4xl font-bold mb-6">Responsive Demo</h1>
```

Tailwind

Modifier	Min Width	Devices	Example
sm:	≥640px	Small tablets/ phones	sm:text-lg
md:	≥768px	Tablets	md:p-6
lg:	≥1024px	Laptops/ small desktops	lg:flex-row
xl:	≥1280px	Large desktops	xl:text-2xl
2xl:	≥1536px	Very large desktops	2xl:mx-auto

```
<h1 className="text-2xl lg:text-4xl font-  
bold mb-6">Responsive Demo</h1>
```

Example



Questions?

