

Tech Workshop #8

Braden Guliano

Director of Technical Development

Kappa Theta Pi

Before we start...



Agenda

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

Prisma migrate

The screenshot shows the Prisma Studio interface for a project named "tech-workshop-7-db". The left sidebar displays project settings like Dashboard, Branches, Integrations, Auth, and Settings. The "Tables" section is selected, showing a list of tables: neondb, Database studio, public, and Todo. The "Todo" table is highlighted with a red circle. The main panel shows the "Todo" table with the following columns and data:

	id	title	completed	createdAt
No row				limit 50 offset 0

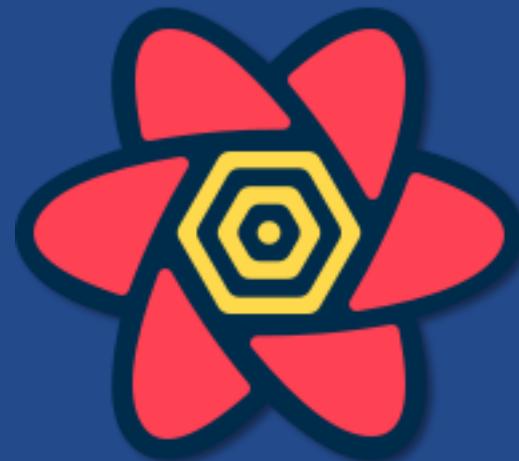
Red arrows point from the column names "id", "title", "completed", and "createdAt" to their respective column headers in the table.

API routing



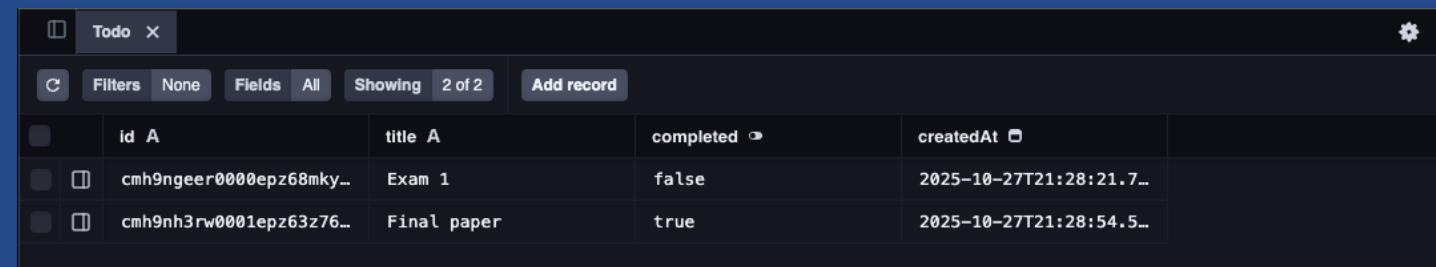
UI connection

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



Local Prisma studio

```
npx prisma studio
```



The screenshot shows the Prisma Studio application window titled "Todo". The interface includes a toolbar with "Filters", "None", "Fields", "All", "Showing 2 of 2", and "Add record" buttons. The main area displays a table with four columns: "id", "title", "completed", and "createdAt". There are two records listed:

	A	A	completed	createdAt
	cmh9ngeer0000epz68mky...	Exam 1	false	2025-10-27T21:28:21.7...
	cmh9nh3rw0001epz63z76...	Final paper	true	2025-10-27T21:28:54.5...

Neon cloud storage

The screenshot shows the Neon cloud storage interface for the project "Vercel: bguiliano's projects" and database "tech-workshop-7-db". The left sidebar displays the project structure with "Dashboard", "Branches", "Integrations", "Auth", and "Settings". Under "Branch", "main" is selected. The "Tables" section is currently active, highlighted in grey. The main area shows the "main" table with three records:

	id	text	title	completed	boolean	createdAt	timestamp
	cmh9ngeer0000epz68mkye...	Exam 1		FALSE		2025-10-27	21:28:21.747
	cmh9nh3rw0001epz63z762...	Final paper		TRUE		2025-10-27	21:28:54.59

Below the table, there are sections for "neondb", "Database studio", "public", and "_prisma_migrations". A "Todo" table is also listed. The interface includes standard CRUD buttons (Create, Read, Update, Delete) and navigation controls.

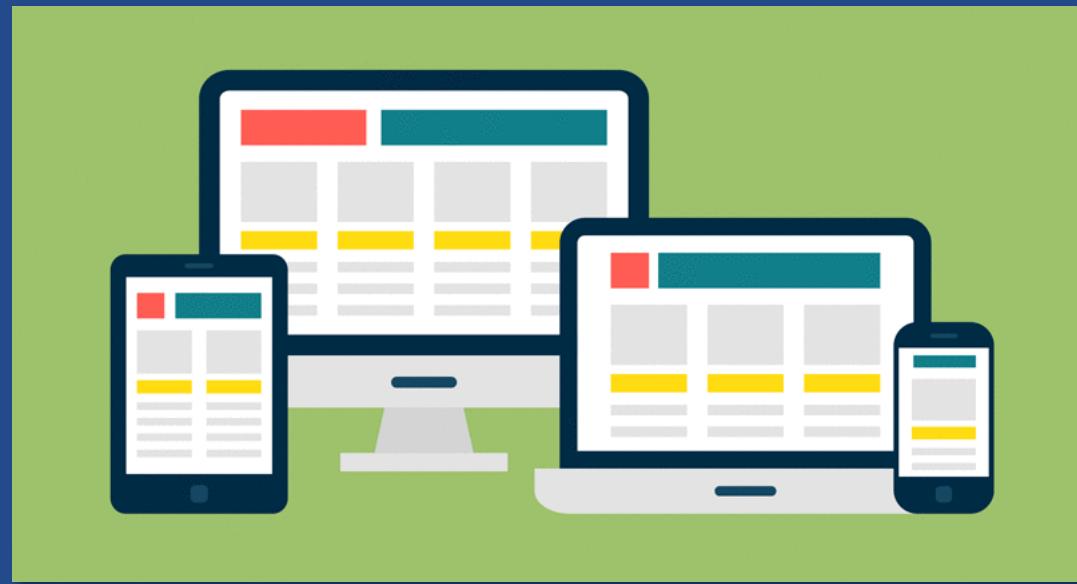
How does this work in production?

- 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

Menu

Responsive Demo

Card 1
Reflows with screen width.

Card 2
Reflows with screen width.

Card 3
Reflows with screen width.

Card 4
Reflows with screen width.

Card 5
Reflows with screen width.

Card 6
Reflows with screen width.

N

Menu

Home

Projects

Contact

N

Responsive Demo

Card 1
Reflows with screen width.

Card 2
Reflows with screen width.

Card 3
Reflows with screen width.

Card 4
Reflows with screen width.

Card 5
Reflows with screen width.

Card 6
Reflows with screen width.

N

Questions?

