M6UF4PF

Ch1 - Getting Started

PS C:\Users\Jcarl\Documents\M06-UF4-PF> npm install -g pnpm

```
PS C:\Users\Jcar\\Documents\M96-UF4-PF> npx create-next-app@latest nextjs-dashboard --example "https://github.com/vercel/next-learn/tree/main/dashboard/starter-example" --use-pnp
              PS C:\Users\Jcarl\Documents\M06-UF4-PF> cd .\nextjs-dashboard\
              PS C:\Users\Jcarl\Documents\M06-UF4-PF\nextjs-dashboard> pnpm i
              PS C:\Users\Jcarl\Documents\M06-UF4-PF\nextjs-dashboard> pnpm i
              Lockfile is up to date, resolution step is skipped
              Already up to date
                Warning
                  Ignored build scripts: bcrypt, sharp.
                  Run "pnpm approve-builds" to pick which dependencies should be allowed to run scripts.
              PS C:\Users\Jcarl\Documents\M06-UF4-PF\nextjs-dashboard> pnpm dev
              > @ dev C:\Users\Jcarl\Documents\M06-UF4-PF\nextjs-dashboard
              > next dev --turbopack
                 ▲ Next.js 15.1.6 (Turbopack)
                               http://localhost:3000
                 - Local:
                                http://192.168.56.1:3000
                  - Network:

√ Starting...

√ Ready in 1951ms

               o Compiling / ...

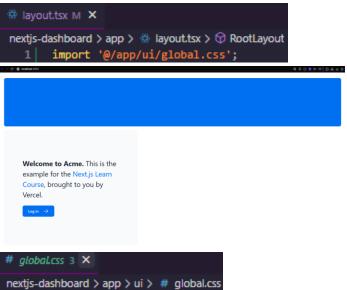
√ Compiled / in 2.7s

               GET / 200 in 3235ms
               N localhost:3000
```

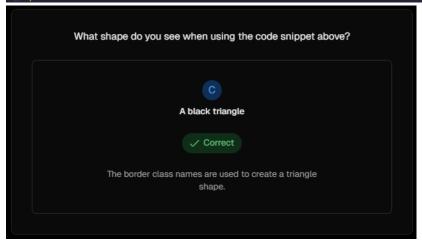
Welcome to Acme. This is the example for the Next.js Learn Course, brought to you by Vercel.

Log in

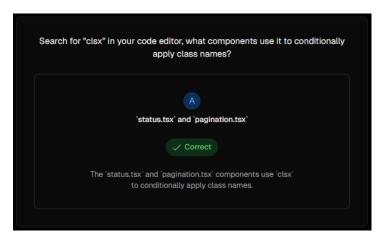
Ch2 - CSS Styling



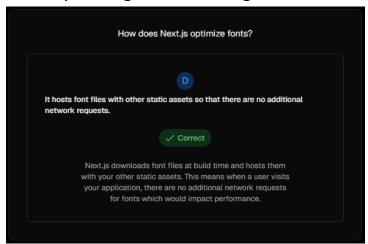




```
# home.module.css U X
nextjs-dashboard > app > ui > # home.module.css > % .shape
       .shape {
        height: 0;
         width: 0;
         border-bottom: 30px solid □ black;
         border-left: 20px solid transparent;
         border-right: 20px solid transparent;
₱ page.tsx M X
nextjs-dashboard > app > 🏶 page.tsx > 🕅 Page
       import AcmeLogo from '@/app/ui/acme-logo';
       import { ArrowRightIcon } from '@heroicons/react/24/outline';
       import Link from 'next/link';
      import styles from '@/app/ui/home.module.css';
       export default function Page() {
         return (
           <main className="flex min-h-screen flex-col p-6">
              <div className={styles.shape} />
              What is one benefit of using CSS modules?
     Provide a way to make CSS classes locally scoped to components by default,
     reducing the risk of styling conflicts.
              CSS Modules create unique class names for each
🏶 status.tsx 🛛 🗙
nextjs-dashboard > app > ui > invoices > 🐡 status.tsx > 😯 InvoiceStatus
        import { CheckIcon, ClockIcon } from '@heroicons/react/24/outline';
        import clsx from 'clsx';
        export default function InvoiceStatus({ status }: { status: string }) {
         return (
            <span
              className={clsx(
                 'inline-flex items-center rounded-full px-2 py-1 text-xs',
                   'bg-gray-100 text-gray-500': status === 'pending',
  10
                   'bg-green-500 text-white': status === 'paid',
```



Ch3 - Optimizing Fonts and Images



```
rextjs-dashboard > app > ui > TS fonts.ts > ...

1 import { Inter } from 'next/font/google';

2

3 export const inter = Inter({ subsets: ['latin'] });
```

```
app > ui > TS fonts.ts > ...
    import { Inter, Lusitana } from 'next/font/google';
    export const inter = Inter({ subsets: ['latin'] });

    export const lusitana = Lusitana({
        weight: ['400', '700'],
        subsets: ['latin'],
        });

page.tsx
```

```
import styles from '@/app/ui/home.module.css';
```

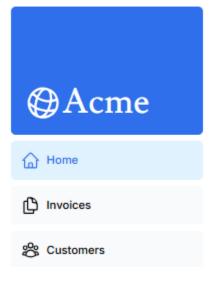
<AcmeLogo />

```
import Image from 'next/image';
```

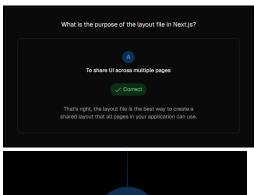


Ch4 - Creating Layouts and Pages

⟨ → □ localhost:3000/dashboard



Dashboard Page





Ch5 - Navigating Between Pages

app > ui > dashboard > 🎡 nav-links.tsx

```
'use client';
import {
   UserGroupIcon,
   HomeIcon,
   DocumentDuplicateIcon,
} from '@heroicons/react/24/outline';
import Link from 'next/link';
import { usePathname } from 'next/navigation';
import clsx from 'clsx';
```

What does Next.js do when a <Link> component appears in the browser's viewport in a production environment?

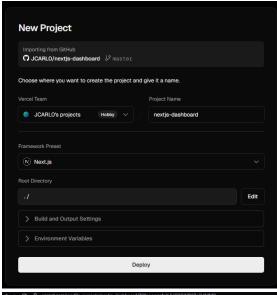
A
Prefetches the code for the linked route

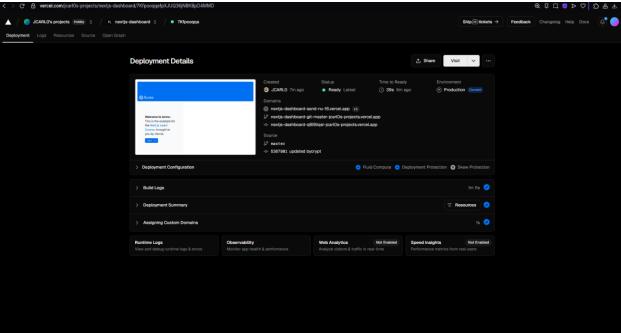
Correct

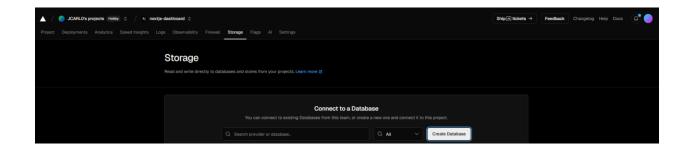
Next.js automatically prefetches the code for the linked route in the background. By the time the user clicks the link, the code for the destination page will already be loaded in the background, and this is what makes the page transition near-instant!

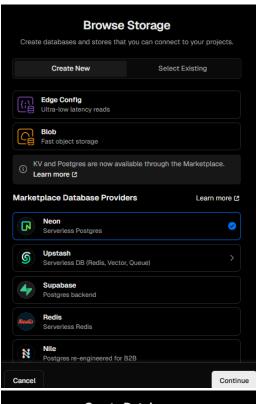


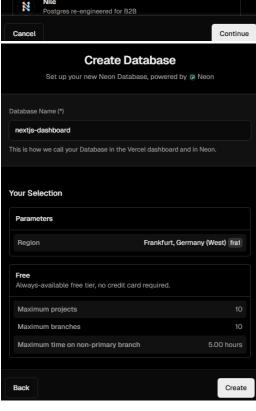
Ch6- Setting Up Your Database

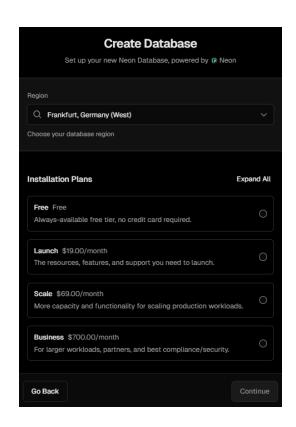




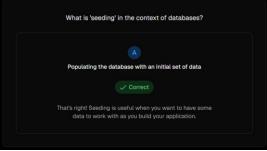




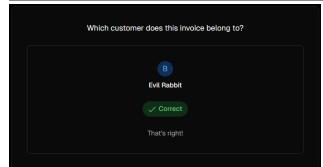


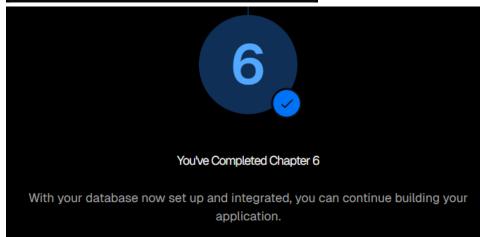




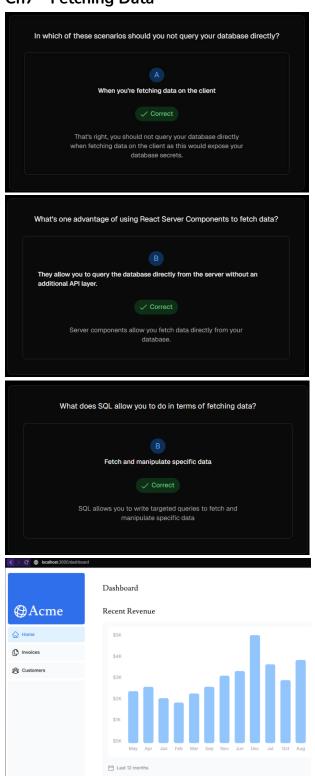




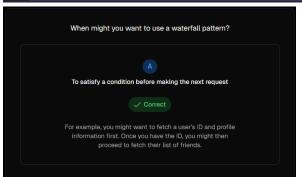


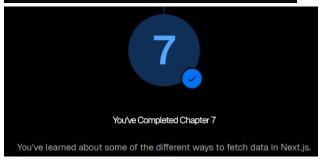


Ch7 - Fetching Data

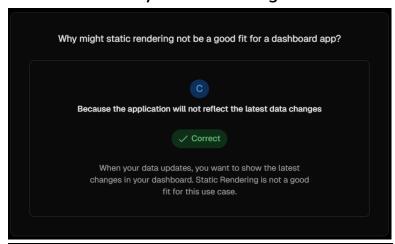


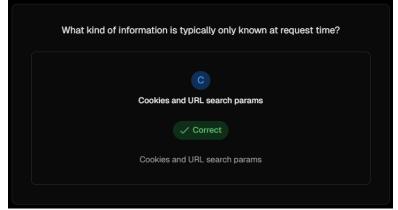






Ch8 - Static and Dynamic Rendering





app > lib > TS data.ts

```
export async function fetchRevenue() {
   try {
      // Artificially delay a response for demo purposes.
      // Don't do this in production :)

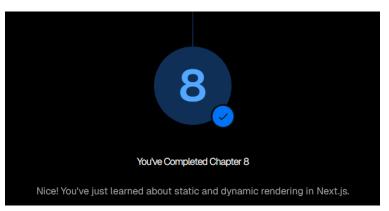
   console.log('Fetching revenue data...');
   await new Promise((resolve) => setTimeout(resolve, 3000));

   const data = await sql<Revenue[]>`SELECT * FROM revenue`;

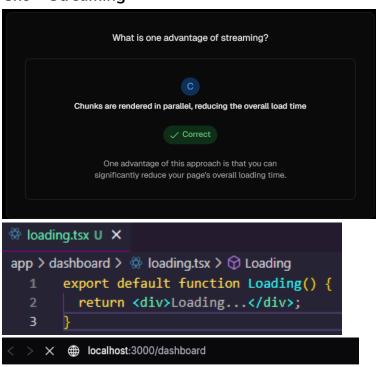
   console.log('Data fetch completed after 3 seconds.');

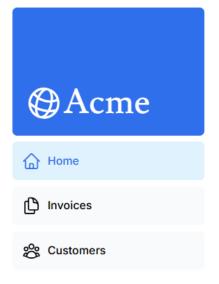
   return data;
} catch (error) {
   console.error('Database Error:', error);
   throw new Error('Failed to fetch revenue data.');
}
```

GET /dashboard 200 in 5605ms Data fetch completed after 3 seconds. Fetching revenue data...

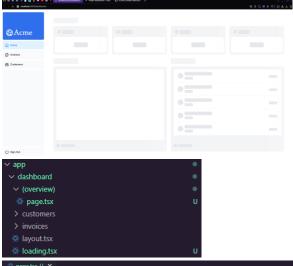


Ch9 - Streaming

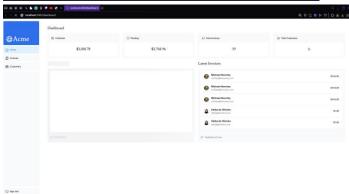




Loading...

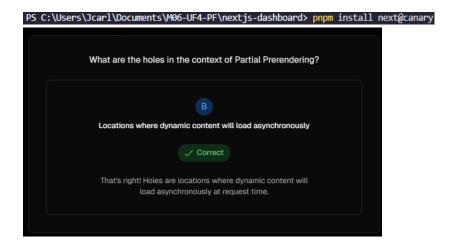








Ch10 - Partial Prerendering



app > dashboard > 🞡 layout.tsx

export const experimental_ppr = true;

Ch11 - Adding Search and Pagination

```
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```

app > ui > 🏶 search.tsx

```
pagination.tsx U X

app > dashboard > invoices > ③ pagination.tsx > ① Pagination

1     'use client';

2     import { ArrowLeftIcon, ArrowRightIcon } from '@heroicons/react/24/outline';

4     import clsx from 'clsx';

5     import Link from 'next/link';

6     import { generatePagination } from '@/app/lib/utils';

7     import { usePathname, useSearchParams } from 'next/navigation';

8     export default function Pagination({ totalPages }: { totalPages: number }) {

10     const pathname = usePathname();

11     const carechParams = useSearchParams.get('page')) || 1;

12     const currentPage = Number(searchParams.get('page')) || 1;

13     const createPageURL = (pageNumber: number | string) => {

15         const params = new URLSearchParams(searchParams);

16         params.set('page', pageNumber.toString());

17         return '${pathname}?${params.toString()};

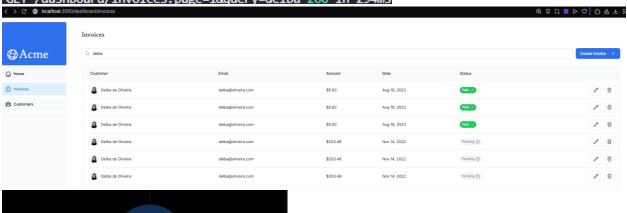
18     };

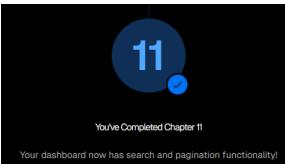
19     // ...

21     }
```

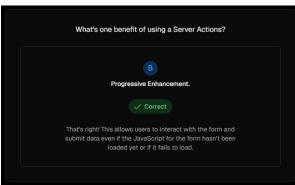
PS C:\Users\Jcarl\Documents\M06-UF4-PF\nextjs-dashboard> pnpm i use-debounce

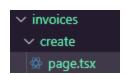
GET /dashboard/invoices?page=1&query=delba 200 in 294ms



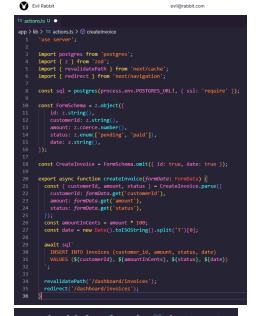


Ch12 - Mutating Data









app > ui > invoices > 🎡 buttons.tsx

```
ort function UpdateInvoice({ id }: { id: string })
app > dashboard > invoices > [id] > edit > ∰ page.tsx > ...
             import Form from '@/app/ui/invoices/edit-form';
import Breadcrumbs from '@/app/ui/invoices/breadcrumbs';
import { fetchInvoiceById, fetchCustomers } from '@/app/lib/data';
import { notFound } from 'next/navigation';
                 const params = await props.params;

const id = params.id;

const [invoice, customers] = await Promise.all([

fetchInvoiceById(id),

fetchCustomers(),
                 if (!invoice) {
  notFound();
                         copport async function updateInvoice(id: string, formData: FormDotata
const ( customerId, amount, status ) = UpdateInvoice.parse((
    customerId: formDota.get('customerId'),
    amount: formDota.get('amount'),
    status: formDota.get('status'),
    """);
}
                         Invoices / Edit Invoice
 Evil Rabbit
                                                                                                                                                                                                                                                                                                                                                                      0 11
                                                                                                                                                                          $9.999.00
                                                                                                                                                                                                                      May 17, 2025
                                                                                        evil@rabbit.com
                                                                                                                                                                                                                                                                            Pending (1)
```

app > ui > invoices > 🎡 buttons.tsx

```
import { deleteInvoice } from '@/app/lib/actions';
```

```
export function DeleteInvoice({ id }: { id: st
  xport function DeleteInvoice({ id }: { id: string }) {
  const deleteInvoiceWithId = deleteInvoice.bind(null, id);
    <form action={deleteInvoiceWithId}>
      <button type="submit" className="rounded-md border p-2 hover:bg-gray-100">
        <span className="sr-only">Delete</span>
<TrashIcon className="w-4" />
      </button>
    </form>
```

