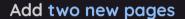


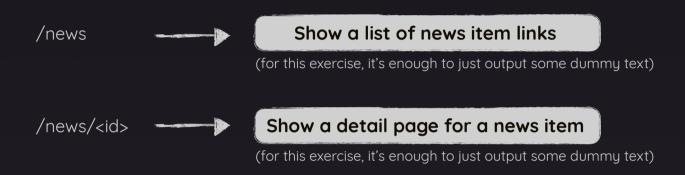
Routing & Page Rendering

File-based Routing, Component Types & More

- Understanding Routing In NextJS Applications
- File Name Conventions & Project Structure
- Server Components vs Client Components

A Challenge For You





Also add a <MainHeader> component that contains links to the (already existing) "Home" page and the newly added "News" page

Standard Routes

/about

Folder name = route path

app/about ——— my-website.com/about

Dynamic Routes

/posts/<dynamic>

Define dynamic segments by wrapping the folder name with []

Layouts & Pages



Created via page.js file

Define page content (JSX) for a route

Created via **layout.js** file

Define wrapping layout for one or more pages

Server vs Client Components



React Server Components (RSC)

Components that are **only** rendered on the server

By default, all React components (in NextJS apps) are RSCs

Advantage: Less client-side JS, great for SEO



Client Components

Components that are prerendered on the server but then also potentially on the client

Opt-in via "use client" directive

Advantage: Client-side interactivity

Maximilian Schwarzmüller — "NextJS - The Complete Guide"

Not Found & Errors

?

Not Found Pages

Created via **not-found.js** file

Shown if a "Not Found" (404) error occurred



Error Fallback Pages

Created via **error.js** file (or **global-error.js**)

Shown if an error gets thrown by a child page or layout

Loading UI



Loading Fallback Page

Created via **loading.js** file

Shown if the child page is still loading data

Route Handlers (API Routes)

/

Non-Page Routes

Created via **route.js** file

Manually handle request & send (any) response

Caching

/

Non-Page Routes

Created via **route.js** file

Manually handle request & send (any) response

Parallel Routes

/dashboard

Load multiple pages in one page by prefixing folder names with @

app/dashboard/@analytics app/dashboard/@expenses

→ my-website.com/dashboard

Intercepting Routes

/dashboard

Intercept navigation requests by prefixing folder names with (.), (..) etc

app/expenses/(.)new



my-website.com/expenses

Route Groups

/posts vs /welcome

Define groups by wrapping folders with ()

app/(marketing)/welcome ——— my-website.com/welcome

Middleware

