Navigation in NextJS

AGENDA

1. Navigate between pages with next/link
2. Navigate to a page programmatically using router.push()
3. How prefetching works

1. Navigate between pages with next/link

```
pages
|__ index.tsx (HomePage)
|__ about.tsx
```

```tsx
import Link from 'next/link'

function HomePage() {
  return (
    <Link href="/about">
      <a>About Us</a>
    </Link>
  )
}
```

`<Link>` props

#	Name	Default	Desc
1	**href**		REQUIRED. the path or URL to navigate to.
2	passHref	false	Forces Link to send the href property to its child
3	**prefetch**	true	Prefetch the page in the background
4	replace	false	Replace the current history state instead of adding a new url into the stack
5	scroll	true	Scroll to the top of the page after a navigation
	...		

next/link docs: https://nextjs.org/docs/api-reference/next/link

2. Navigate to a page programmatically using router.push()

```
import { useRouter } from 'next/router'

function App() {
  const router = useRouter();

  function handleSubmit() {
    router.push('/success-page');

    // or using options object

    router.push({
      pathname: '/posts/[postId]',
      query: {
        postId: 123,
        ref: 'social',
      },
    })
  }

  return (...);
}
```

router props

#	Name	Desc
1	pathname	Current route
2	query	The query string parsed to an object
3	basePath	The active basePath (if enabled)
4	locale	The active locale (if enabled)
5	isFallback	Whether the current page is in fallback mode
	...	

router methods

#	Name	Desc
1	router.push()	Handles client-side transitions
2	router.replace()	prevent adding a new URL entry into the history stack
3	router.prefetch()	Prefetch pages for faster client-side transitions
4	router.back()	Navigate back in history
5	router.reload()	executes `window.location.reload()`

...

> next/router docs: https://nextjs.org/docs/api-reference/next/router

3. How prefetching works

Prefetch the page in the background for faster client-side transitions (by default Link will have prefetch turned ON)

```
function App() {
  return (
    <Link href="/pineapple-pizza">
      <a>Pineapple pizza</a>
    </Link>
  )
}
```

- Only prefetches links that appear **in the viewport**.
- It use Intersection Observer API to detect.
- Prefetching is **only enabled in production**.
- But it will be disabled in **slow network** or when users have Save-Data turned on.

> **NOTE**: Next.js only fetches the Javascript, it doesn't execute it.

Avoid unnecessary prefetching

```
function App() {
  return (
    <Link href="/pineapple-pizza" prefetch={false}>
      <a>Pineapple pizza</a>
    </Link>
  )
}
```

Glitch demo: https://glitch.com/edit/#!/rust-curved-dodo

> Source: https://web.dev/route-prefetching-in-nextjs

Tham khảo

- https://web.dev/route-prefetching-in-nextjs/
- https://nextjs.org/docs/api-reference/next/link
- https://nextjs.org/docs/api-reference/next/router

Series - NextJS + Typescript 🎉

- Tác giả: **Hậu Nguyễn**
- Được phát hành trên kênh youtube **Easy Frontend**.
- Tài liệu pdf và videos đều có bản quyền thuộc về Easy Frontend.
- Videos được phát hành cho fan cứng trước, public sau.
- Đăng ký fan cứng để xem series này đầy đủ và sớm nhất nhé.

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