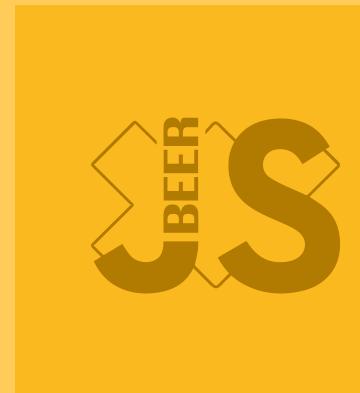
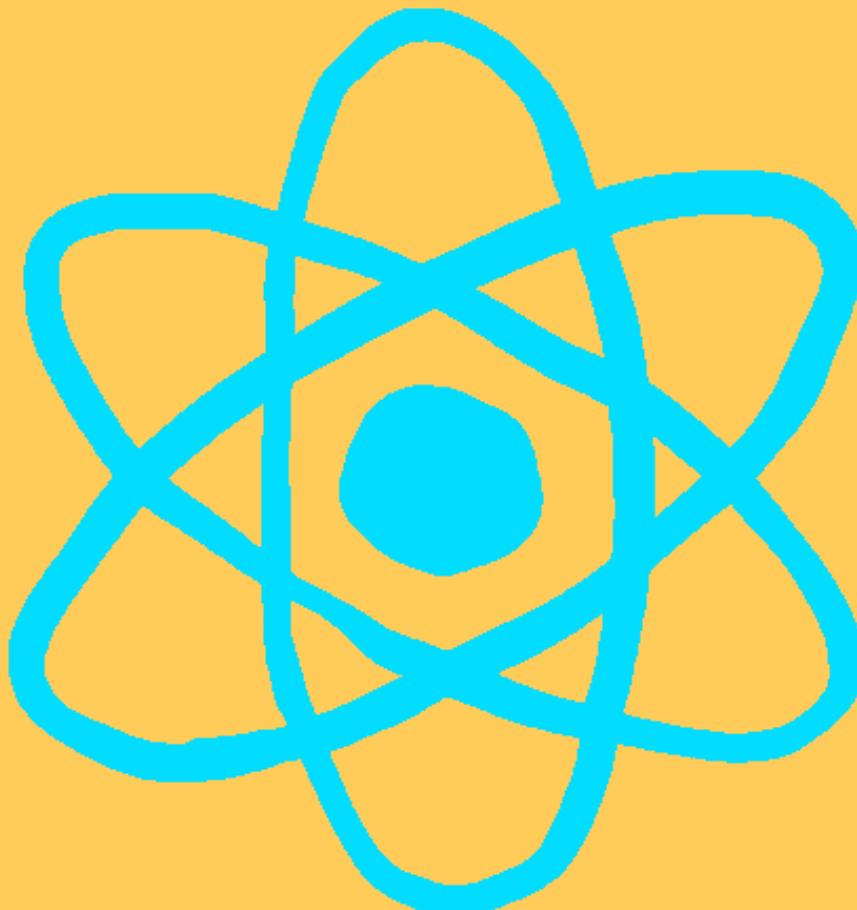


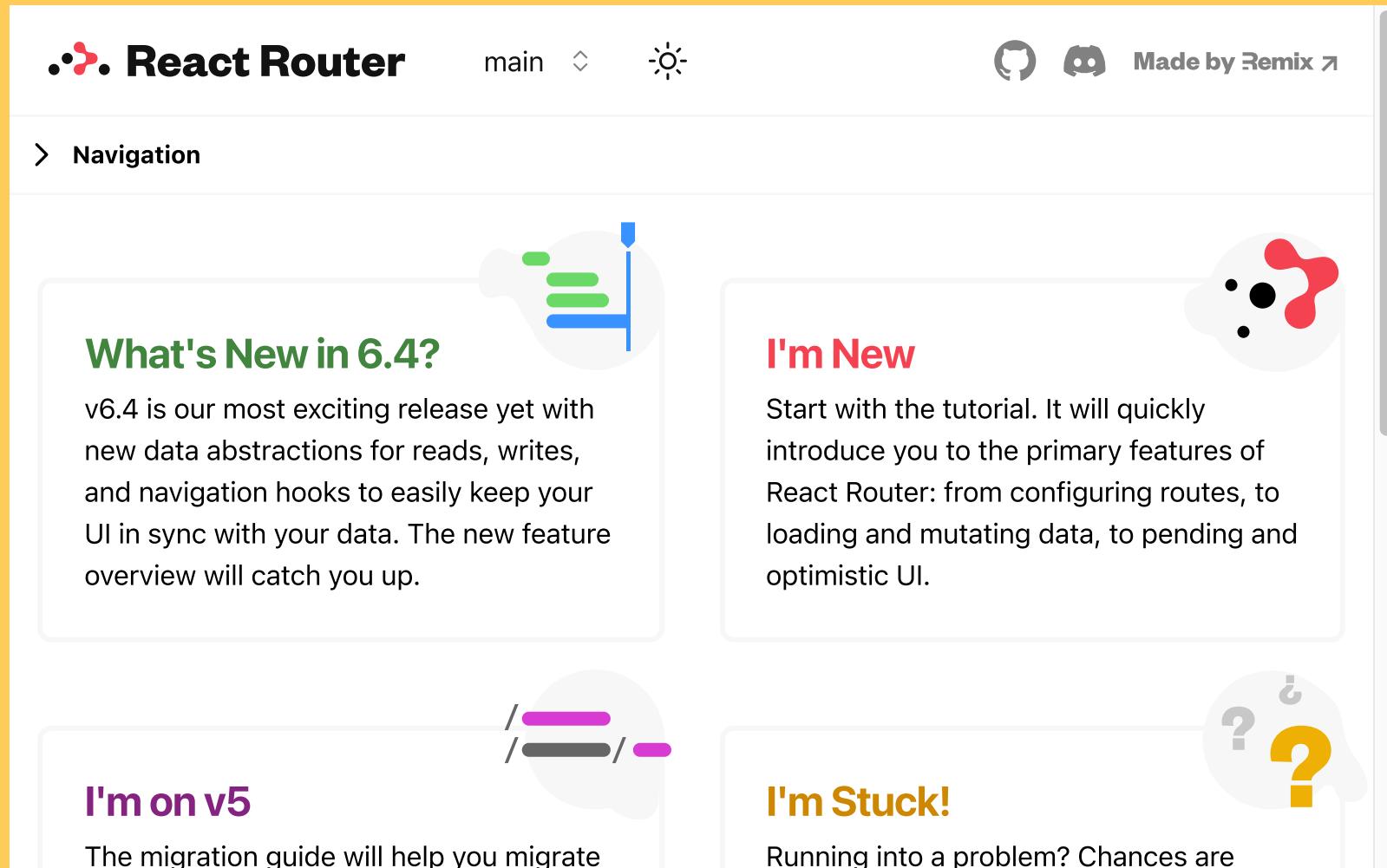
FRONTEND. REACT. ЛЕКЦІЯ 8

REACT ROUTER V6. REACT.LAZY. SUSPENSE



REACT ROUTER

<https://reactrouter.com/en/main>



The screenshot shows the React Router homepage with a yellow header and a white content area. The header includes the React Router logo, a 'main' dropdown, a sun icon, and social media links for GitHub and Discord. Below the header, there's a breadcrumb navigation 'Navigation'. The main content is organized into four cards:

- What's New in 6.4?** (Green text) - A card with a green bar chart icon. It describes v6.4 as the most exciting release with new data abstractions and navigation hooks. It links to a feature overview.
- I'm New** (Red text) - A card with a red abstract icon. It suggests starting with the tutorial to learn primary features like configuring routes and data loading.
- I'm on v5** (Purple text) - A card with a purple bar chart icon. It links to a migration guide for upgrading from version 5.
- I'm Stuck!** (Orange text) - A card with orange question mark icons. It links to resources for troubleshooting problems.

The footer of the page contains a 'Made by Remix' link and a small number '2'.

REACT ROUTER

```
npm install react-router-dom
```

REACT ROUTER

REACT ROUTER

- react-router-dom

REACT ROUTER

- react-router-dom
- react-router-native

REACT ROUTER

- react-router-dom
- react-router-native
- react-router

REACT ROUTER

REACT ROUTER

- v6

REACT ROUTER

- v6
- spa navigation

ТИПИ РОУТЕРІВ

ТИПИ РОУТЕРІВ

- BrowserRouter

ТИПИ РОУТЕРІВ

- BrowserRouter
- MemoryRouter

ТИПИ РОУТЕРІВ

- BrowserRouter
- MemoryRouter
- HashRouter

ТИПИ РОУТЕРІВ

- BrowserRouter
- MemoryRouter
- HashRouter
- NativeRouter

ТИПИ РОУТЕРІВ

- BrowserRouter
- MemoryRouter
- HashRouter
- NativeRouter
- StaticRouter

BROWSERROUTER

```
import './App.css';

import { Lesson1 } from './pages/Lesson1';
import { Home } from './pages/Home';
import { PageNotFound } from './pages/404';
import { Articles } from './pages/Articles';

import { Routes, Route, BrowserRouter } from 'react-router-dom';
import { Layout } from './components/Layout';
import { Header } from './components/Header';

function App() {

return (
  <div>
    <header favcolor="blue"></header>
    <BrowserRouter>
```

V6.4 ТИПИ РОУТЕРІВ

V6.4 ТИПИ РОУТЕРІВ

- createBrowserRouter

V6.4 ТИПИ РОУТЕРІВ

- createBrowserRouter
- createMemoryRouter

V6.4 ТИПИ РОУТЕРІВ

- createBrowserRouter
- createMemoryRouter
- createHashRouter

CREATEBROWSERROUTER

```
import './App.css';

import { Lesson1 } from './pages/Lesson1';
import { Home } from './pages/Home';
import { PageNotFound } from './pages/404';
import { Articles } from './pages/Articles';

import { Routes, createRoutesFromElements, Route, createBrowserRouter, RouterProvider } from 'react-router-dom';
import { Layout } from './components/Layout';
import { Header } from './components/Header';

function App() {
  const router = createBrowserRouter(
    createRoutesFromElements(
      <route path="/" element="{<Layout>}>
        <route path="/" element="{<Home>}>Home</route>
        <route path="/lesson1" element="{<Lesson1>}>Home</route>
        <route path="/articles/:id" element="{<Articles>}>Home</route>
    
```

CREATEBROWSERROUTER

CREATEBROWSERROUTER

- Рекомендований маршрутизатор

CREATEBROWSERROUTER

- Рекомендований маршрутизатор
- Базується на DOM History API

ROUTES

Масив роутерів. Імовільно використовувати, як структуру даних

```
createBrowserRouter([
  {
    path: "/",
    element: <root>,
    loader: rootLoader,
    children: [
      {
        path: "events/:id",
        element: <event>,
        loader: eventLoader,
      },
    ],
  },
]);
</event></root>
```

BASENAME

Властивість. Задання посилання на корінь ресурсу

```
createBrowserRouter(routes, {  
  basename: "/app",  
});
```

ROUTE

```
const router = createBrowserRouter([
{
  // it renders this element
  element: <team>,

  // when the URL matches this segment
  path: "teams/:teamId",

  // with this data loaded before rendering
  loader: async ({ request, params }) => {
    return fetch(
      `/fake/api/teams/${params.teamId}.json`,
      { signal: request.signal }
    );
  },
  // performing this mutation when data is submitted to it
  action: async ({ request }) => {
    ...
  }
});
```

PATH

Властивість. Шлях для маршрутизації

```
path: "teams/:teamId",
```

PATH

Динамічні сегменти. Не можуть бути частковими.

```
path: "teams/:teamId/product/:productId",
```

*CATCHALL **

Все після сегменту

```
path: "teams/:teamId/product/*",
```

LINK

Навігація на клієнті

```
<header classname="header-menu">
  <link to="/">Home
  <link to="/lesson1">Lesson1
  <link to="/sdfdfdsf">Incorrect
  <link to="/articles">Articles
</header>
```

LINK

LINK

- to

LINK

- to
- relative

LINK

- to
- relative
- preventScrollReset

NAVLINK

```
<header classname="header-menu">
  <NavLink to="/">Home</NavLink>
  <NavLink to="/lesson1">Lesson1</NavLink>
  <NavLink to="/sdfdfdsf">Incorrect</NavLink>
</header>
```

OUTLET

Місце, куди буде доданий весь контент

INDEX

Мало б працювати, але...

```
const router = createBrowserRouter(  
  createRoutesFromElements(  
    <route path="/" element="{<Layout>}>  
      <route index="" element="{<Home>}>Home</route>  
      <route path="/lesson1" element="{<Lesson1>}>Home</route>  
      <route path="/articles/:id" element="{<Articles>}>Home</route>  
      <route path="*" element="{<PageNotFound>}>Home</route>  
    </route>  
  )  
);
```

USEPARAMS

```
import { useParams } from "react-router-dom";

const Articles = () => {
  const {id} = useParams();

  return (<div>
    <h1>Articles</h1>
    <span>Page: {id}</span>
  </div>
}
export { Articles };
```

USENAVIGATE

Можливість емуляції браузерної навігації

```
import { useEffect, useState } from "react";
import { useParams, useNavigate } from "react-router-dom";

const Articles = () => {
  const {id} = useParams();
  const navigate = useNavigate();

  const [data, setData] = useState({});

  const goBack = () => navigate(-1);

  useEffect(() => {
    fetch(`https://jsonplaceholder.typicode.com/posts/${id}`)
      .then(response => response.json())
      .then(json => setData(json));
  }, []);
}
```

NAVIGATE

Переадресація

```
<route path="/lesson1" element="{<Lesson1">}>Home</route>
```

```
    <route path="/lesson9" element="{<Navigate" to="/" />}">Lesson9</route>
```

USEMATCH, USEPARAMS

<https://reactrouter.com/en/main/hooks/use-search-params>

The screenshot shows a browser window with the React Router logo at the top left. To its right are navigation links for "main" and a sun icon. Further right are icons for GitHub and Remix, followed by the text "Made by Remix". Below the header, a breadcrumb navigation shows a single item: "> useSearchParams". The main content area has a large title "useSearchParams". Underneath it, a "NOTE" section explains that this is the web version of the hook. It also provides a link to the React Native version. A "Type declaration" section follows, which is partially cut off. The main text describes the hook's purpose: reading and modifying query strings in URLs, returning an array of two values (searchParams and setSearchParams), and supporting functional updates. It concludes with a note about providing a function to update searchParams.

React Router

main ☰

Made by Remix ↗

> useSearchParams

useSearchParams

NOTE

This is the web version of `useSearchParams`. For the React Native version, [go here](#).

▶ Type declaration

The `useSearchParams` hook is used to read and modify the query string in the URL for the current location. Like React's own [`useState` hook](#), `useSearchParams` returns an array of two values: the current location's [`searchParams`](#) and a function that may be used to update them. Just as React's [`useState` hook](#), `setSearchParams` also supports [functional updates](#). Therefore, you may provide a function that takes a `searchParams` and returns an

REACT.LAZY

```
const Header = lazy(() => import('./components/Header'));
```

REACT.SUSPENSE

```
<suspense fallback="{'Loading...'}">
  <header favcolor="blue"></header>
</suspense>
```

ШО? ШО?

