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# React router

Reference:

<https://www.youtube.com/watch?v=E4Ha35zDngk>

<https://www.youtube.com/watch?v=oTIJunBa6MA>

<https://www.youtube.com/watch?v=943D7U74_sQ&t=2619s>

**Official documents:** <https://reactrouter.com/en/main/start/tutorial>

## React installation with vit

C:\projects\MyProjects\react-router-latest>npm create vite@latest .

Need to install the following packages:

create-vite@latest

Ok to proceed? (y) y

npm WARN EBADENGINE Unsupported engine {

npm WARN EBADENGINE package: 'create-vite@5.5.5',

npm WARN EBADENGINE required: { node: '^18.0.0 || >=20.0.0' },

npm WARN EBADENGINE current: { node: 'v16.1.0', npm: '7.11.2' }

npm WARN EBADENGINE }

√ Select a framework: » React

√ Select a variant: » TypeScript

Scaffolding project in C:\projects\MyProjects\react-router-latest...

Done. Now run:

npm install

npm run dev

C:\projects\MyProjects\react-router-latest>npm install

C:\projects\MyProjects\react-router-latest>npm run dev

## Create new repo on github

A screenshot of a computer

Description automatically generated

## Initiaize project with VS code or command prompt

C:\projects\MyProjects\react-router-latest>git init

Initialized empty Git repository in C:/projects/MyProjects/react-router-latest/.git/

C:\projects\MyProjects\react-router-latest>git add .

C:\projects\MyProjects\react-router-latest>git commit -m "first commit"

C:\projects\MyProjects\react-router-latest> git branch -M main

C:\projects\MyProjects\react-router-latest>git remote add origin <https://github.com/truptigaonkar/react-router-latest.git>

C:\projects\MyProjects\react-router-latest>git push -u origin main

To https://github.com/truptigaonkar/react-router-latest.git

! [rejected] main -> main (fetch first)

error: failed to push some refs to 'https://github.com/truptigaonkar/react-router-latest.git'

hint: Updates were rejected because the remote contains work that you do not

hint: have locally. This is usually caused by another repository pushing to

hint: the same ref. If you want to integrate the remote changes, use

hint: 'git pull' before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

C:\projects\MyProjects\react-router-latest>git push --force --set-upstream origin main

Enumerating objects: 22, done.

Counting objects: 100% (22/22), done.

Delta compression using up to 8 threads

Compressing objects: 100% (19/19), done.

Writing objects: 100% (22/22), 53.30 KiB | 3.81 MiB/s, done.

Total 22 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), done.

To https://github.com/truptigaonkar/react-router-latest.git

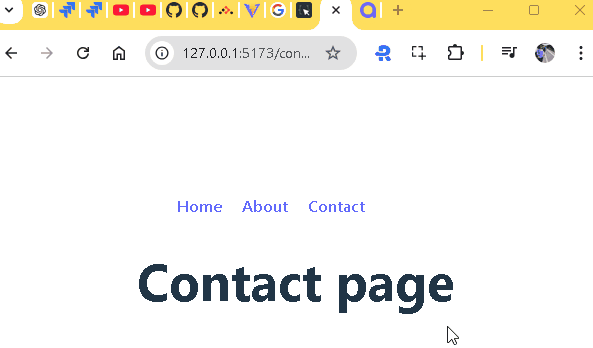
+ 0e22b9a...1f7b09d main -> main (forced update)

branch 'main' set up to track 'origin/main'.

## Install react package: react-router-dom

C:\projects\MyProjects\react-router-latest>npm install react-router-dom

## <Link />:

 A screenshot of a computer screen

Description automatically generated

|  |  |
| --- | --- |
| **Layout.tsx** | **Navbar.tsx** |
| **import** { Outlet } **from** "react-router-dom";  **import** Navbar **from** "./Navbar";  const Layout = () => {  **return** (      <>        <**Navbar** />        <main>          <**Outlet** /> {*/\* Render child components here \*/*}        </main>      </>    );  };  **export** **default** Layout; | **import** { Link } **from** "react-router-dom";  const Navbar = () => {  **return** (      <ul style={{display: 'flex', listStyleType: 'none', gap: '20px'}}>        <**Link** to={"/"}><li>Home</li></**Link**>        <**Link** to={"/about"}><li>About</li></**Link**>        <**Link** to={"/contact"}><li>Contact</li></**Link**>      </ul>    );  };  **export** **default** Navbar; |

|  |  |  |
| --- | --- | --- |
| **App.tsx** | **About.tsx** | **Contact.tsx** |
| **import** "./App.css";  function App() {  **return** (      <div>        <h1>Home Page</h1>      </div>    );  }  **export** **default** App; | const About = () => {  **return** (      <div>        <h1>About page</h1>      </div>    );  };  **export** **default** About; | const Contact = () => {  **return** (        <div>          <h1>Contact page</h1>        </div>      );    };    **export** **default** Contact; |

## <NavLink />:

A close-up of a contact page

Description automatically generated

|  |
| --- |
| **NavLink.tsx** |
| **import** { NavLink } **from** "react-router-dom";  const Navbar = () => {    const getNavLinkStyle = ({ isActive }: { isActive: **boolean** }) =>      isActive ? { color: "red", fontWeight: "bold" } : undefined;  **return** (      <ul style={{ display: "flex", listStyleType: "none", gap: "20px" }}>        <**NavLink** to={"/"} style={getNavLinkStyle}>          <li>Home</li>        </**NavLink**>        <**NavLink** to={"/about"} style={getNavLinkStyle}>          <li>About</li>        </**NavLink**>        <**NavLink** to={"/contact"} style={getNavLinkStyle}>          <li>Contact</li>        </**NavLink**>      </ul>    );  };  **export** **default** Navbar; |

## Error page: 404 not found page

|  |  |
| --- | --- |
| **Main.tsx** | **ErrorPage.tsx** |
| **import** { StrictMode } **from** "react";  **import** { createRoot } **from** "react-dom/client";  **import** { createBrowserRouter, RouterProvider } **from** "react-router-dom";  **import** "./index.css";  **import** App **from** "./App.tsx";  **import** About **from** "./components/About.tsx";  **import** Layout **from** "./components/Layout.tsx";  **import** Contact **from** "./components/Contact.tsx";  **import** ErrorPage **from** "./components/ErrorPage.tsx";  const router = createBrowserRouter([    {      path: "/",      element: <**Layout** />, *// Use Layout as the parent element*  *// errorElement: <h4>Page not found</h4>,*      errorElement: <**ErrorPage** />,      children: [        { path: "/", element: <**App** /> },        { path: "/about", element: <**About** /> },        { path: "/contact", element: <**Contact** /> },      ],    },  ]);  createRoot(document.getElementById("root")!).render(    <**StrictMode**>      <**RouterProvider** router={router} />    </**StrictMode**>  ); | const ErrorPage = () => {  **return** (      <div>        <h1>Error</h1>        <p>Sorry, the page you are looking for does not exist.</p>      </div>    );  };  **export** **default** ErrorPage; |