

PRAKTIK PER. 7

Langkah 1: Setup Project dan Dependencies

```
npm create vite@latest praktik-8 -- --template react
```

```
npm install
```

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

Dalam praktik ini, Anda akan membangun aplikasi sederhana dengan multiple "halaman" menggunakan React Router. Kita akan membuat:

1. **Struktur Navigasi Dasar:** Header dengan menu navigasi
2. **Multiple Routes:** Home, About, Products, Contact
3. **Dynamic Routes:** Detail produk dengan parameter
4. **Programmatic Navigation:** Redirect setelah form submission
5. **Nested Routes:** Layout konsisten antar halaman

Anda akan menggunakan komponen-komponen React Router untuk membuat pengalaman navigasi yang smooth tanpa page reload.

Langkah 2 : src/pages/Home.jsx

```
// File: src/pages/Home.jsx
import React from 'react';
import { Link } from 'react-router-dom';

const Home = () => {
  return (
    <div className="page home-page">
      <h1>#127968; Welcome to Our Website</h1>
      <p>Ini adalah halaman home menggunakan React Router</p>

      <div className="feature-cards">
        <div className="card">
          <h3>#128214; About Us</h3>
          <p>Pelajari lebih lanjut tentang perusahaan kami</p>
          <Link to="/about" className="btn btn-primary">
            Learn More
          </Link>
        </div>

        <div className="card">
          <h3>#128717;#65039; Products</h3>
          <p>Jelajahi koleksi produk kami</p>
          <Link to="/products" className="btn btn-primary">
            View Products
          </Link>
        </div>

        <div className="card">
          <h3>#128222; Contact</h3>
          <p>Hubungi kami untuk informasi lebih lanjut</p>
          <Link to="/contact" className="btn btn-primary">
            Get in Touch
          </Link>
        </div>
      </div>
    </div>
  );
};

export default Home;
```

Langkah 3 : src/pages/About.jsx

```
// File: src/pages/About.jsx
import React from 'react';

const About = () => {
  return (
    <div className="page about-page">
      <h1>&#128214; About Us</h1>
      <div className="about-content">
        <section>
          <h2>Our Story</h2>
          <p>
            Kami adalah perusahaan yang berdedikasi untuk memberikan
            solusi terbaik menggunakan teknologi modern.
          </p>
        </section>

        <section>
          <h2>Our Mission</h2>
          <p>
            Menyediakan pengalaman pengguna yang luar biasa melalui
            aplikasi web yang inovatif.
          </p>
        </section>

        <section>
          <h2>Technology Stack</h2>
          <ul>
            <li>React JS</li>
            <li>React Router</li>
            <li>Modern CSS</li>
            <li>Responsive Design</li>
          </ul>
        </section>
      </div>
    </div>
  );
};

export default About;
```

Langkah 4 : src/pages/Products.jsx

```
// File: src/pages/Products.jsx
import React from 'react';
import { Link } from 'react-router-dom';

const Products = () => {
  // Data produk dummy
  const products = [
    { id: 1, name: 'Laptop', price: 12000000, category: 'Electronics' },
    { id: 2, name: 'Smartphone', price: 5000000, category: 'Electronics' },
    { id: 3, name: 'Headphones', price: 800000, category: 'Electronics' },
    { id: 4, name: 'Book', price: 150000, category: 'Education' },
    { id: 5, name: 'Desk Lamp', price: 300000, category: 'Home' },
  ];

  return (
    <div className="page products-page">
      <h1>&#128717;&#65039; Our Products</h1>
      <p>Jelajahi berbagai produk yang kami tawarkan</p>

      <div className="products-grid">
        {products.map(product => (
          <div key={product.id} className="product-card">
            <h3>{product.name}</h3>
            <p className="price">Rp {product.price.toLocaleString('id-ID')}</p>
            <p className="category">{product.category}</p>
            <Link
              to={` /products/${product.id}`}
              className="btn btn-secondary"
            >
              View Details
            </Link>
          </div>
        ))}
      </div>
    </div>
  );
};

export default Products;
```

Langkah 5 : src/pages/Contact.jsx

```
// File: src/pages/Contact.jsx
import React, { useState } from 'react';
import { useNavigate } from 'react-router-dom';

const Contact = () => {
  const navigate = useNavigate();
  const [formData, setFormData] = useState({
    name: '',
    email: '',
    message: ''
  });

  const handleChange = (e) => {
    const { name, value } = e.target;
    setFormData(prev => ({
      ...prev,
      [name]: value
    }));
  };

  const handleSubmit = (e) => {
    e.preventDefault();

    // Simulasi pengiriman form
    alert('Terima kasih! Pesan Anda telah dikirim.');
```

// Redirect ke halaman home setelah submit

```
    navigate('/');
  };

  return (
    <div className="page contact-page">
      <h1>Contact Us</h1>

      <div className="contact-content">
        <div className="contact-info">
          <h2>Get in Touch</h2>
          <p>Email: info@myapp.com</p>
          <p>Phone: +62 812-3456-7890</p>
          <p>Address: Jakarta, Indonesia</p>
        </div>

        <form onSubmit={handleSubmit} className="contact-form">
          <div className="form-group">
            <label htmlFor="name">Name:</label>
            <input
              type="text"
              id="name"
              name="name"
              value={formData.name}
              onChange={handleChange}
              required
            />
          </div>
        </form>
      </div>
    </div>
  );
};
```

```

    />
  </div>

  <div className="form-group">
    <label htmlFor="email">Email:</label>
    <input
      type="email"
      id="email"
      name="email"
      value={formData.email}
      onChange={handleChange}
      required
    />
  </div>

  <div className="form-group">
    <label htmlFor="message">Message:</label>
    <textarea
      id="message"
      name="message"
      value={formData.message}
      onChange={handleChange}
      rows="5"
      required
    ></textarea>
  </div>

  <button type="submit" className="btn btn-primary">
    Send Message
  </button>
</form>
</div>
</div>
);
};

```

```
export default Contact;
```

Langkah 6 : src/components/Navitation.jsx


```
// File: src/components/Navigation.jsx
import React from 'react';
import { Link, useLocation } from 'react-router-dom';

const Navigation = () => {
  const location = useLocation();

  // Function untuk mengecek apakah link aktif
  const isActive = (path) => {
    return location.pathname === path;
  };

  return (
    <nav className="navigation">
      <div className="nav-brand">
        <Link to="/">MyApp</Link>
      </div>

      <ul className="nav-links">
        <li>
          <Link
            to="/"
            className={isActive('/') ? 'active' : ''}
          >
            Home
          </Link>
        </li>
        <li>
          <Link
            to="/about"
            className={isActive('/about') ? 'active' : ''}
          >
            About
          </Link>
        </li>
        <li>
          <Link
            to="/products"
            className={isActive('/products') ? 'active' : ''}
          >
            Products
          </Link>
        </li>
        <li>
          <Link
            to="/contact"
            className={isActive('/contact') ? 'active' : ''}
          >
            Contact
          </Link>
        </li>
      </ul>
    </nav>
  );
};
```

```
    );  
};  
  
export default Navigation;
```

Langkah 7 : src/components/Layout.jsx

```
// File: src/components/Layout.jsx
import React from 'react';
import { Outlet } from 'react-router-dom';
import Navigation from './Navigation';

const Layout = () => {
  return (
    <div className="app">
      { /* Navigation component yang muncul di semua halaman */ }
      <Navigation />

      { /* Main content area - akan diisi oleh route yang aktif */ }
      <main className="main-content">
        <Outlet />
      </main>

      { /* Footer */ }
      <footer className="footer">
        <p>&copy; 2024 My React App. Pertemuan 8 - React Router</p>
      </footer>
    </div>
  );
};

export default Layout;
```

Langkah 8 : src/App.jsx

```
// File: src/App.jsx
import React from 'react';
import { BrowserRouter, Routes, Route } from 'react-router-dom';
import Layout from './components/Layout';
import Home from './pages/Home';
import About from './pages/About';
import Products from './pages/Products';
import ProductDetail from './pages/ProductDetail';
import Contact from './pages/Contact';
import NotFound from './pages/NotFound';
import './App.css';

function App() {
  return (
    <BrowserRouter>
      <Routes>
        {/* Layout wrapper untuk semua halaman */}
        <Route path="/" element={<Layout />}>
          <Route index element={<Home />} />
          <Route path="about" element={<About />} />
          <Route path="products" element={<Products />} />
          <Route path="products/:id" element={<ProductDetail />} />
          <Route path="contact" element={<Contact />} />
          <Route path="*" element={<NotFound />} />
        </Route>
      </Routes>
    </BrowserRouter>
  );
}

export default App;
```

Langkah 8 : src/App.css

```

/* File: src/App.css */
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
  line-height: 1.6;
  color: #333;
  background-color: #f8f9fa;
}

.app {
  min-height: 100vh;
  display: flex;
  flex-direction: column;
}

/* Navigation Styles */
.navigation {
  background: #2c3e50;
  color: white;
  padding: 1rem 2rem;
  display: flex;
  justify-content: space-between;
  align-items: center;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

.nav-brand a {
  color: white;
  text-decoration: none;
  font-size: 1.5rem;
  font-weight: bold;
}

.nav-links {
  display: flex;
  list-style: none;
  gap: 2rem;
}

.nav-links a {
  color: white;
  text-decoration: none;
  padding: 0.5rem 1rem;
  border-radius: 4px;
  transition: background-color 0.3s ease;
}

.nav-links a:hover

```

```
/* Main Content */
.nav-links a.active {
  background-color: #34495e;
}

/* Main Content */
.main-content {
  flex: 1;
  padding: 2rem;
  max-width: 1200px;
  margin: 0 auto;
  width: 100%;
}

/* Page Styles */
.page {
  animation: fadeIn 0.5s ease-in;
}

@keyframes fadeIn {
  from {
    opacity: 0;
    transform: translateY(20px);
  }

  to {
    opacity: 1;
    transform: translateY(0);
  }
}

/* Home Page */
.home-page h1 {
  text-align: center;
  margin-bottom: 1rem;
  color: #2c3e50;
}

.feature-cards {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
  gap: 2rem;
  margin-top: 3rem;
}
```

```
.card {
  background: white;
  padding: 2rem;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
  text-align: center;
  transition: transform 0.3s ease;
}

.card:hover {
  transform: translateY(-5px);
}

.card h3 {
  margin-bottom: 1rem;
  color: #2c3e50;
}

/* Products Page */
.products-grid {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
  gap: 1.5rem;
  margin-top: 2rem;
}

.product-card {
  background: white;
  padding: 1.5rem;
  border-radius: 8px;
  box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
  text-align: center;
}

.product-card h3 {
  color: #2c3e50;
  margin-bottom: 0.5rem;
}

.price {
  font-size: 1.2rem;
  font-weight: bold;
  color: #27ae60;
  margin-bottom: 0.5rem;
}

.category {
  color: #7f8c8d;
  font-style: italic;
  margin-bottom: 1rem;
}

/* Product Detail Page */
```



```
/* Contact Page */
.product-detail {
  background: white;
  padding: 2rem;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
  margin-top: 1rem;
}

.product-info {
  margin: 1.5rem 0;
}

.product-info p {
  margin-bottom: 0.5rem;
}

.product-actions {
  display: flex;
  gap: 1rem;
  flex-wrap: wrap;
}

/* Contact Page */
.contact-content {
  display: grid;
  grid-template-columns: 1fr 1fr;
  gap: 3rem;
  margin-top: 2rem;
}

.contact-info {
  background: white;
  padding: 2rem;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
}

.contact-form {
  background: white;
  padding: 2rem;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
}

.form-group {
  margin-bottom: 1.5rem;
}
```

```
.form-group label {
  display: block;
  margin-bottom: 0.5rem;
  font-weight: bold;
}

.form-group input,
.form-group textarea {
  width: 100%;
  padding: 0.75rem;
  border: 2px solid #e9ecef;
  border-radius: 4px;
  font-size: 1rem;
  transition: border-color 0.3s ease;
}

.form-group input:focus,
.form-group textarea:focus {
  outline: none;
  border-color: #3498db;
}

/* About Page */
.about-content section {
  background: white;
  padding: 2rem;
  margin-bottom: 1.5rem;
  border-radius: 8px;
  box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
}

.about-content h2 {
  color: #2c3e50;
  margin-bottom: 1rem;
}

.about-content ul {
  list-style-position: inside;
  margin-top: 0.5rem;
}

.about-content li {
  margin-bottom: 0.5rem;
}

/* Not Found Page */
.not-found-page {
  display: flex;
  justify-content: center;
  align-items: center;
  min-height: 60vh;
  text-align: center;
}
```

```
.not-found-content h1 {
  font-size: 4rem;
  color: #e74c3c;
  margin-bottom: 1rem;
}

.not-found-content h2 {
  color: #2c3e50;
  margin-bottom: 1rem;
}

.action-buttons {
  display: flex;
  gap: 1rem;
  justify-content: center;
  margin-top: 2rem;
  flex-wrap: wrap;
}

/* Button Styles */
.btn {
  display: inline-block;
  padding: 0.75rem 1.5rem;
  border: none;
  border-radius: 4px;
  text-decoration: none;
  font-size: 1rem;
  cursor: pointer;
  transition: all 0.3s ease;
  text-align: center;
}

.btn-primary {
  background: #3498db;
  color: white;
}

.btn-primary:hover {
  background: #2980b9;
}

.btn-secondary {
  background: #95a5a6;
  color: white;
}

.btn-secondary:hover {
  background: #7f8c8d;
}

/* Footer */
.footer {
  background: #2c3e50;
```

```
color: white;
text-align: center;
padding: 1rem;
margin-top: auto;
}

/* Responsive Design */
@media (max-width: 768px) {
  .navigation {
    flex-direction: column;
    gap: 1rem;
    padding: 1rem;
  }

  .nav-links {
    gap: 1rem;
  }

  .main-content {
    padding: 1rem;
  }

  .contact-content {
    grid-template-columns: 1fr;
    gap: 2rem;
  }

  .feature-cards,
  .products-grid {
    grid-template-columns: 1fr;
  }

  .product-actions,
  .action-buttons {
    flex-direction: column;
  }

  .btn {
    width: 100%;
  }
}
```



Welcome to Our Website

Ini adalah halaman home menggunakan React Router

About Us

Pelajari lebih lanjut tentang perusahaan kami

[Learn More](#)

Products

Jelajahi koleksi produk kami

[View Products](#)

Contact

Hubungi kami untuk informasi lebih lanjut

[Get in Touch](#)