

METADATA

ON REACT JS



Code + Demo

 **GitHub**

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Med Reda Kamal

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What is Metadata ?

Metadata or **Meta tags** can be used to refer to the **title** and **description** of a web page

Title = SEO Title

Description = SEO Description

they are important elements of search engine optimization efforts (SEO).

And this is how Google know how to rank a web page in the search results !



BUT ! When it comes to React
Search Engines may or may not
run your JavaScript



No Worries . . .
There is always a way

Let's Do It Together
SWIPE



Initialize a React App first

```
const App = () => {  
  return (  
    <div className='App'>  
      <h1>  
        <strong>Hello LinkedIners</strong>  
      </h1>  
      <p>Use yarn or npm to create the React App</p>  
    </div>  
  )  
}  
  
export default App;
```

Output

Hello LinkedIners

Use yarn or npm to create the React App



Install React Bootstrap And Import Bootstrap CSS file

```
import './bootstrap.min.css'
import { Button } from 'react-bootstrap'

const App = () => {
  return (
    <div className='container'>
      <h1>
        <strong>Bootstrap is working !</strong>
      </h1>
      <Button variant='primary'>Button</Button>
    </div>
  )
}

export default App
```

Output

Bootstrap is working !

Button



Create Menu & Add Menu to App.js

components/Menu.js :  App.js

```
import React from "react";
import { Nav, Navbar, Container } from "react-bootstrap";
const Menu = () => {
  return (
    <header>
      <Navbar bg="light" expand="lg">
        <Container>
          <Navbar.Brand href="/">MK</Navbar.Brand>
          <Navbar.Toggle aria-controls="basic-navbar-nav" />
          <Navbar.Collapse id="basic-navbar-nav">
            <Nav className="me-auto">
              <Nav.Link to="/" className="nav-link">Home</Nav.Link>
              <Nav.Link to="/services" className="nav-link">Services</Nav.Link>
              <Nav.Link to="/about" className="nav-link">About</Nav.Link>
              <Nav.Link to="/default" className="nav-link">Default</Nav.Link>
            </Nav>
          </Navbar.Collapse>
        </Container>
      </Navbar>
    </header>
  );
};

export default Menu;
```

```
import "../bootstrap.min.css";
import Menu from "../components/Menu";

const App = () => {
  return (
    <><Menu /></>
  );
};

export default App;
```

Output

MK Home Services About Default



Install React Router DOM & Add Routes

App.js

```
import './bootstrap.min.css';
import { BrowserRouter as Router, Routes, Route } from 'react-router-dom';
import Menu from './components/Menu';
import { Container } from 'react-bootstrap';
import Home from './pages/Home.js';
import About from './pages/About.js';
import Services from './pages/Services.js';
import Default from './pages/Default';
const App = () => {
  return (
    <>
      <Router>
        <Menu />
        <main className="my-3">
          <Container>
            <Routes>
              <Route path="/" index element={<Home />} />
              <Route path="/about" element={<About />} />
              <Route path="/services" element={<Services />} />
              <Route path="/default" element={<Default />} />
            </Routes>
          </Container>
        </main>
      </Router>
    </>
  );
};

export default App;
```

Menu should be inside <Router> !

Create & Import Pages

pages

- About.js
- Default.js
- Home.js
- Services.js



Update Menu File

 components/Menu.js :

```
import React from "react";
import { Nav, Navbar, Container } from "react-bootstrap";
import { LinkContainer } from "react-router-bootstrap";
import { Link } from "react-router-dom";
const Menu = () => {
  return (
    <header>
      <Navbar bg="light" expand="lg">
        <Container>
          <LinkContainer to="/">
            <Navbar.Brand>MK</Navbar.Brand>
          </LinkContainer>
          <Navbar.Toggle aria-controls="basic-navbar-nav" />
          <Navbar.Collapse id="basic-navbar-nav">
            <Nav className="me-auto">
              <Link to="/" className="nav-link">Home</Link>
              <Link to="/services" className="nav-link">Services</Link>
              <Link to="/about" className="nav-link">About</Link>
              <Link to="/default" className="nav-link">Default</Link>
            </Nav>
          </Navbar.Collapse>
        </Container>
      </Navbar>
    </header>
  );
};

export default Menu;
```

<LinkContainer>
to make it behave like
a React Router <Link>

Use <Link>
instead of <Nav.Link>



Our simple app now is **READY!**
Time to add meta tags, but how ?



★ React Helmet

is a reusable component which helps manage all of your changes to the document head

Installing :

NPM



```
npm install react-helmet
```

Yarn



```
yarn add react-helmet
```



Create Head Component

 components/Head.js :

**Props to be used
on pages**

```
import React from "react";
import { Helmet } from "react-helmet";
const Head = ({ title, description, keywords }) => {
  return (
    <Helmet>
      <title>{title}</title>
      <meta name="description" content={description} />
      <meta name="keywords" content={keywords} />
    </Helmet>
  );
};
```

**If there is no props
default props will be used**

```
Head.defaultProps = {
  title: "Default Title",
  description: "I'm Med Reda Kamal, this is a default description",
  keywords: "medredakamal",
};

export default Head;
```



Import Head on your pages


Using Home page as an example

 pages/Home.js :

```
import React from "react";
import Head from "../components/Head";

const Home = () => {
  return (
    <>
      <Head title="Home" description="Home sweat Home" keywords="homepage" />
      <h1>My name is Med Reda Kamal</h1>
      <p>This is the home page</p>
    </>
  );
};

export default Home;
```



```
<title>Home</title>
<meta name="description" content="Home sweat Home" data-react-helmet="true">
<meta name="keywords" content="homepage" data-react-helmet="true">
```





**Feel free to improve
this app more**

Check Code & Demo Links :



Available on Github



Available on CodeSandbox



Med Reda Kamal



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