



# React and Node Integration

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There are two main approaches to create React applications on Node

- HTML approach
  - Write react code in HTML
  - Return the HTML file in response when a request URL contains .html
  - The react code will be executed by the browser
- React App approach
  - Execute react code at server end
  - Steps to follow:
    1. `npx create-react-app <myapp>` (myapp is the app name to be given)
    2. `cd <myapp>`
    3. `npm start`
    4. Modify `src/App.js` to create your own app

- SPA (Single Page Applications) need fewer reload of pages, faster page speeds so that it leads to better User Experience
- Traditionally, regular applications used the `<a>` tag to enable navigation from one page to another. This resulted in server requests and hence called server side routing
- With React Router, we achieve client side routing using the `<Link>` and `<Route>` component

```
import {BrowserRouter as Router, Route, Link} from 'react-router-dom';
```

```
<Router>  
  <Link to="/">Home</Link>  
  <Link to="/contact">Contact</Link>  
  <Link to="/about">About Us</Link>  
  <Route path="/" component={Home} />  
  <Route path="/about" component={About} />  
  <Route path="/contact" component={Contact} />  
</Router>
```

### App.js

```
import {StyledLink} from './styles.js';  
<Router>  
  <StyledLink to="/">Home</StyledLink>  
  ...  
</Router>
```

### styles.js

```
import styled from 'styled-components';  
import {NavLink} from 'react-router-dom';  
  
export const StyledLink = styled(NavLink)`  
  margin-right: 5px;  
`;  
export default StyledLink;
```



# THANK YOU

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