# Routing

Routing is the way in the react in which you will show the components based upon the urls. Meaning Mapping of Urls with Components.

For example:

/about => About Component

/contact => Contact Component

## Using `react-router-dom`:

 To implement routing in a React application, you typically use the `react-router-dom` library, which provides components and utilities for defining and managing routes.

```
bash

npm install react-router-dom
```

### How to Setup:

We just have to follow 3 steps to implement Routing.

1. Wrap the Main file "index.js" inside the <BroswerRouter> Component

2. All the Routes must me enclosed in the <Routes> Component.

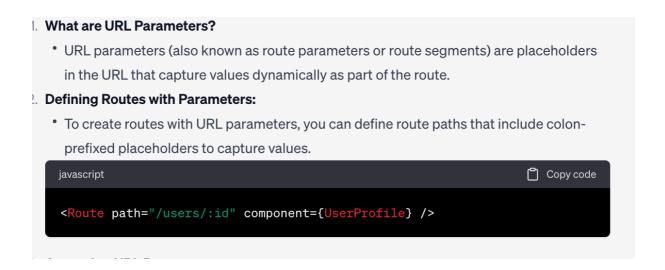
3. Single Route is defined by <Route path="/about" component={<About />} /> Component. Where the path prop will take the url and component prop will take the component and it will map the given url with given component.

```
<Route path="/" exact component={Home} />
<Route path="/about" component={About} />
<Route path="/contact" component={Contact} />
```

4. Generally all the Routes are written in App.js

#### **URL PARAMETERS**

Url parameters are the way to pass some dynamic values to urls. For example passing some id's to the urls so that the mapped component can identified this url is opened for which parent.



### **Accessing URL Parameters:**

• In the component specified by the route, you can access the URL parameters using the `useParams` hook or the `match` object.

```
javascript

import { useParams } from 'react-router-dom';

function UserProfile() {
  const { id } = useParams();
  // Use the 'id' parameter in your component logic
}
```