React Query

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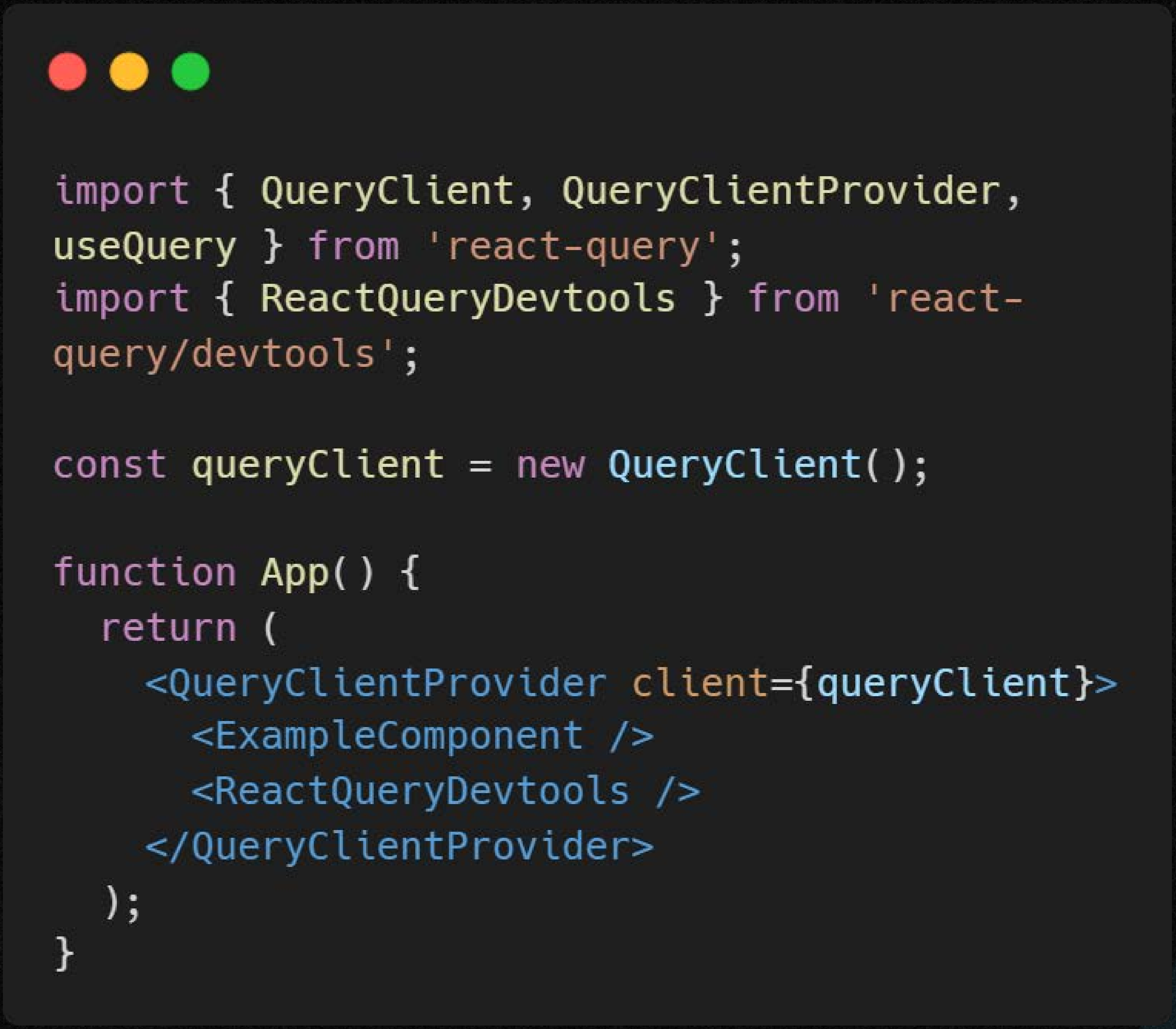
React Query is a powerful library that helps you manage and fetch data in React applications.

Installation

To get started with React Query, you need to install it in your project. You can use npm or yarn to install the package.

```
npm install react-query
```

Importing and setting up React Query



```
import { QueryClient, QueryClientProvider,
useQuery } from 'react-query';
import { ReactQueryDevtools } from 'react-
query/devtools';

const queryClient = new QueryClient();

function App() {
  return (
    <QueryClientProvider client={queryClient}>
      <ExampleComponent />
      <ReactQueryDevtools />
    </QueryClientProvider>
  );
}
```

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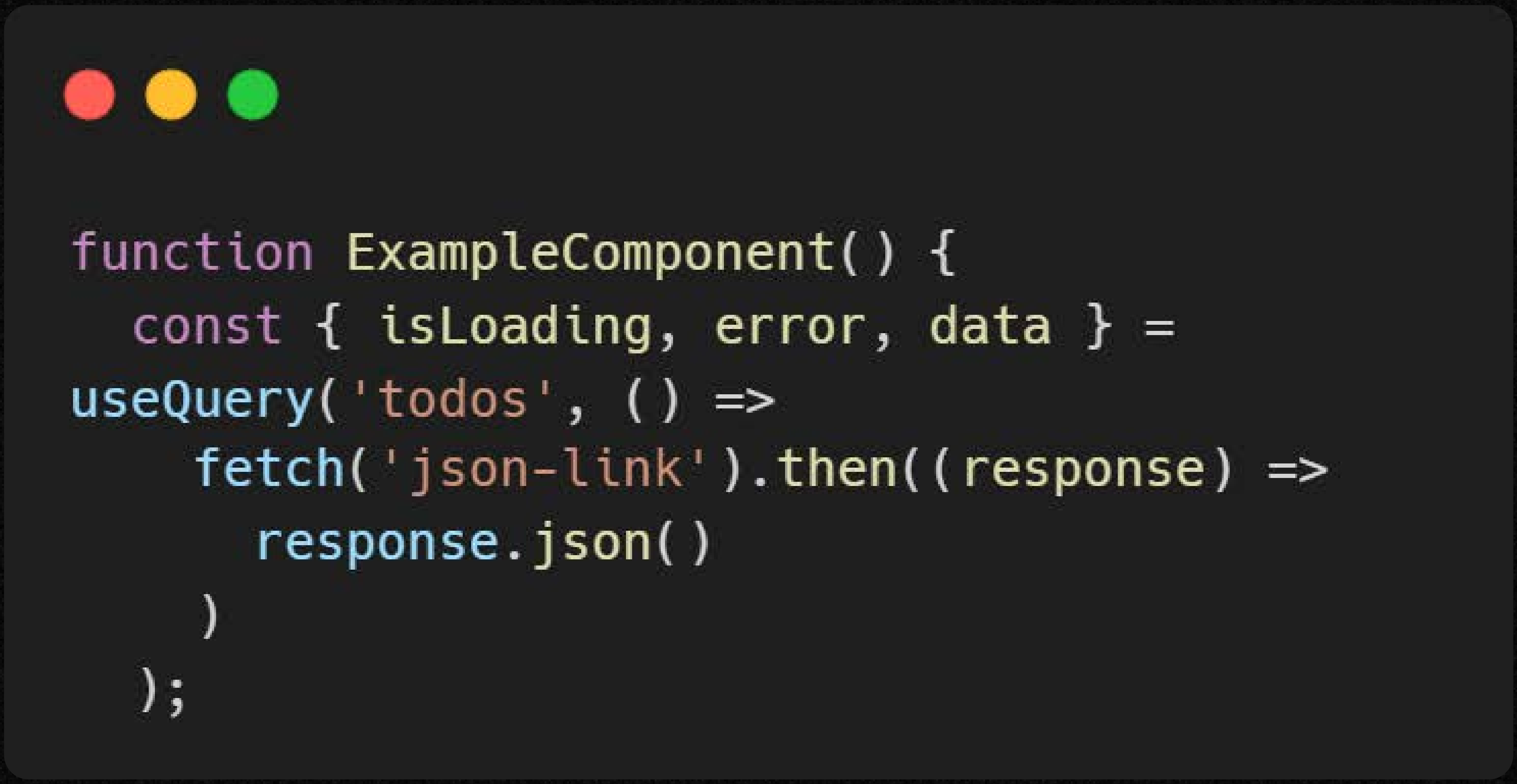
Fetching data using useQuery hook

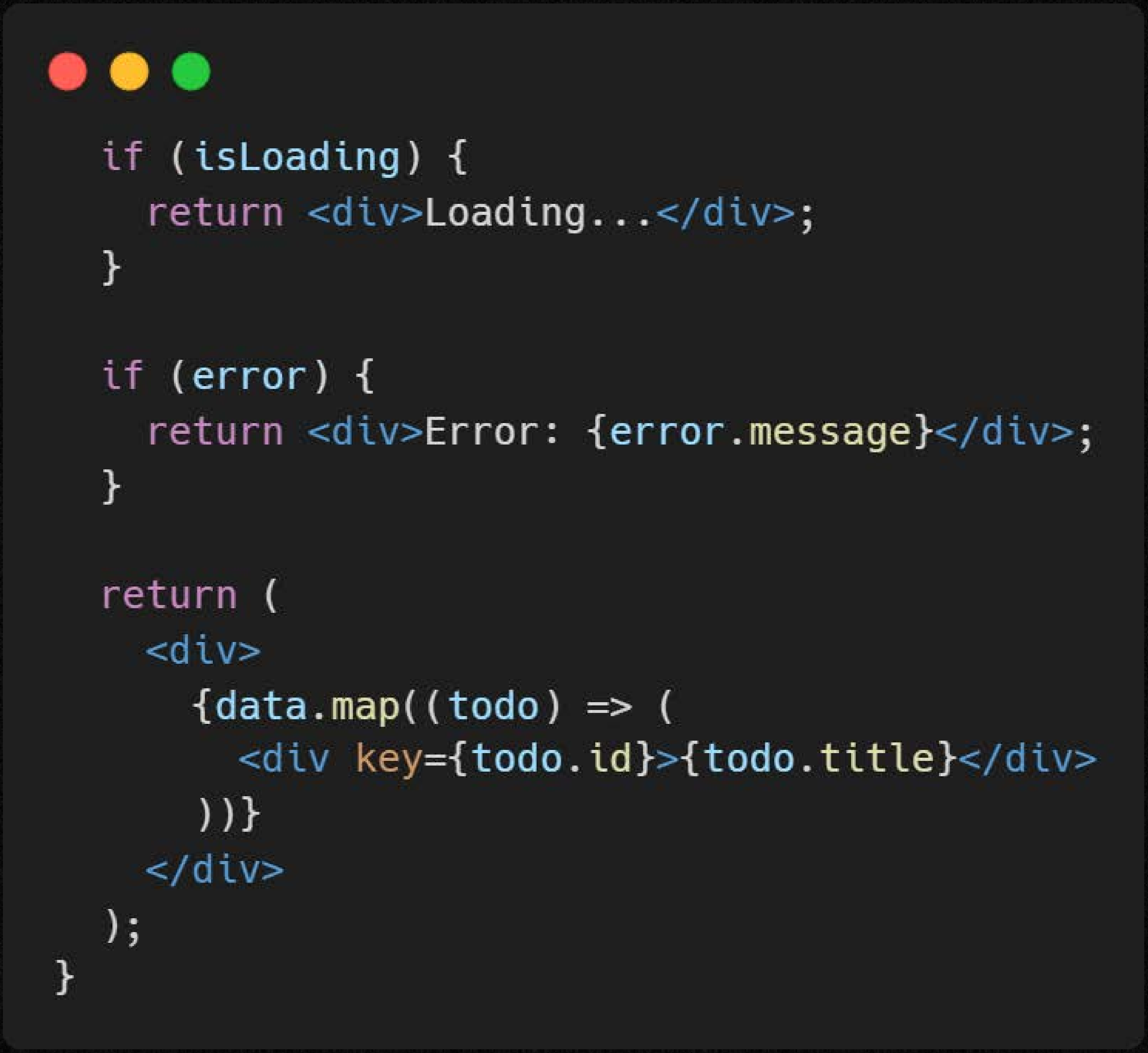
The useQuery hook is the primary way to fetch data in React Query.



```
function ExampleComponent() {
  const { isLoading, error, data } =
useQuery('todos', () =>
    fetch('json-link').then((response) =>
      response.json()
    )
  );
```

It takes a query key and an async function (or a promise) that fetches the data.

Handling loading and errors-



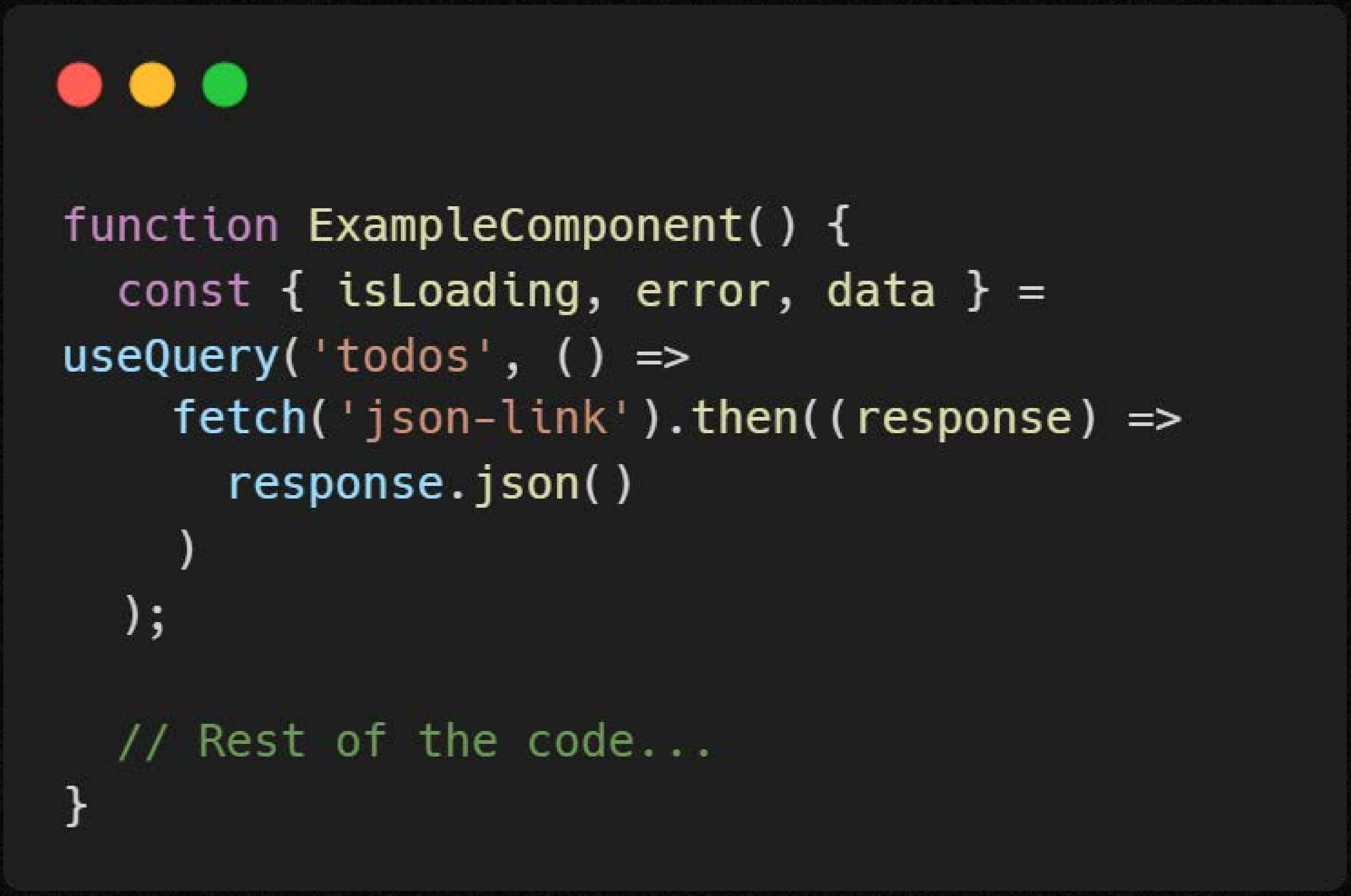
```
  if (isLoading) {
    return <div>Loading...</div>;
  }

  if (error) {
    return <div>Error: {error.message}</div>;
  }

  return (
    <div>
      {data.map((todo) => (
        <div key={todo.id}>{todo.title}</div>
      ))}
    </div>
  );
}
```

Caching data:

React Query automatically caches the fetched data, which improves performance by avoiding unnecessary API calls.



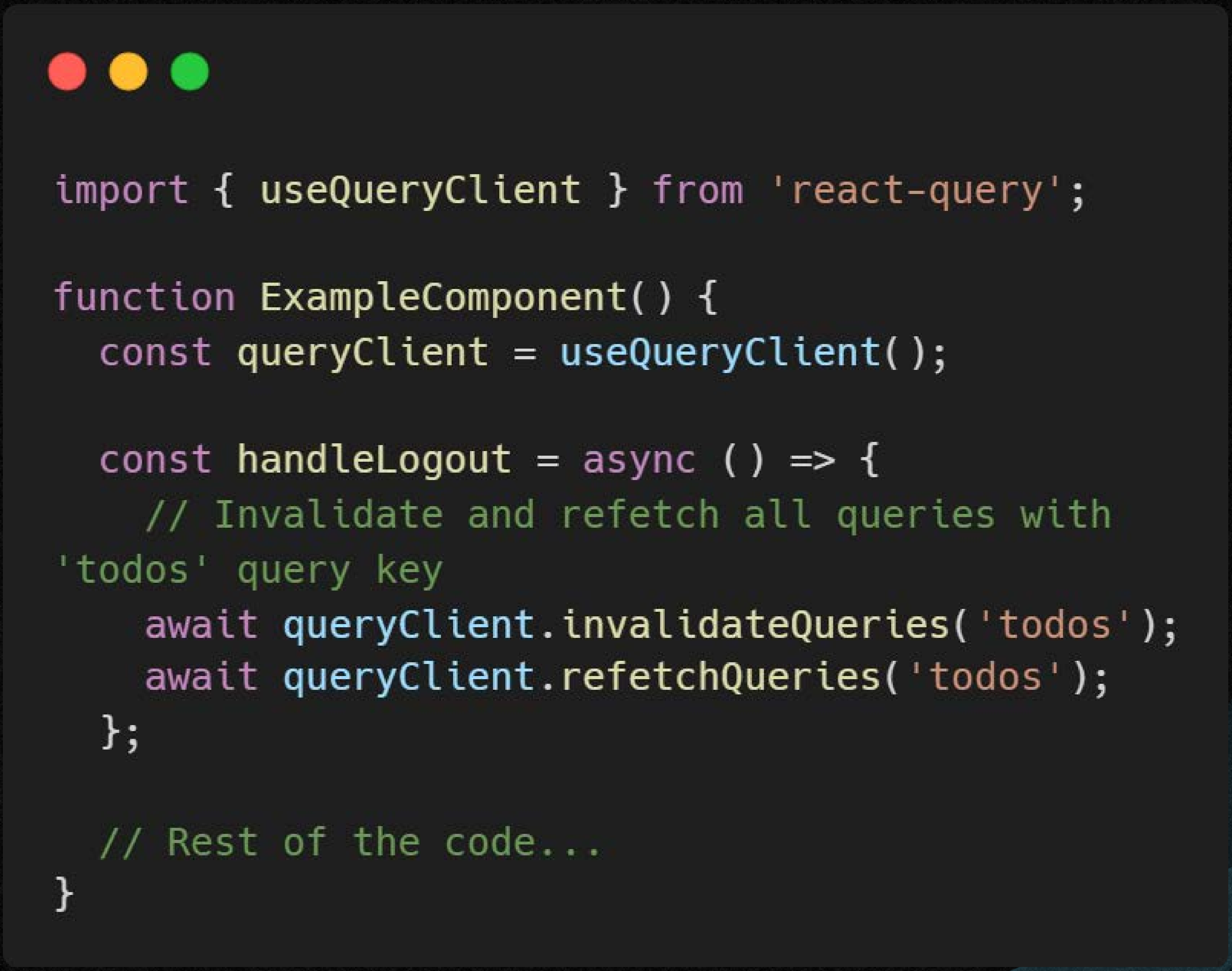
```
function ExampleComponent() {
  const { isLoading, error, data } =
useQuery('todos', () =>
    fetch('json-link').then((response) =>
      response.json()
    )
  );

  // Rest of the code...
}
```

If the same query key is used in multiple components, React Query will reuse the cached data!

Invalidating and refetching data

React Query provides a way to manually invalidate and refetch data.



```
import { useQueryClient } from 'react-query';

function ExampleComponent() {
  const queryClient = useQueryClient();

  const handleLogout = async () => {
    // Invalidate and refetch all queries with
'todos' query key
    await queryClient.invalidateQueries('todos');
    await queryClient.refetchQueries('todos');
  };

  // Rest of the code...
}
```

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