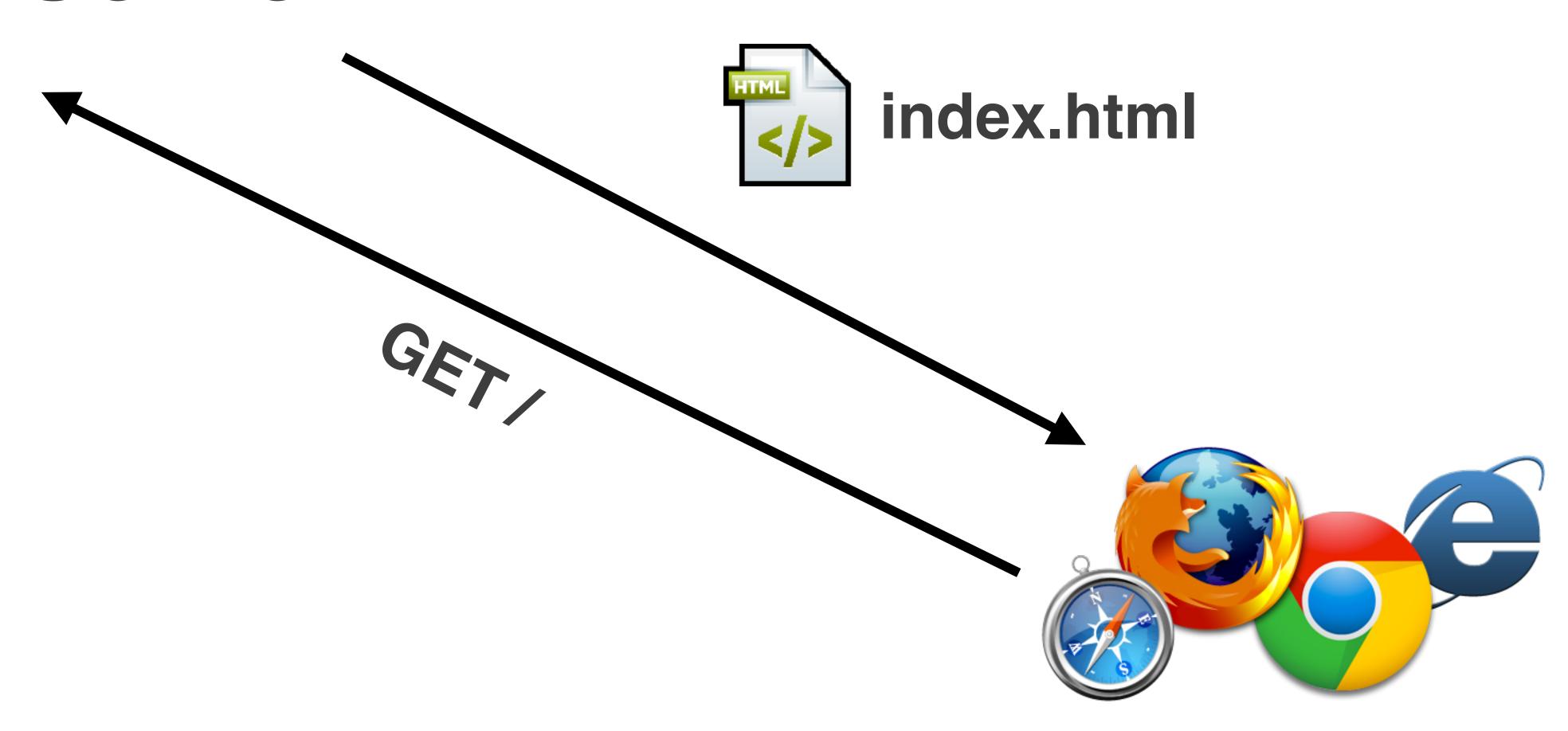
## REACT ROUTER

Declarative routing for React

# NOT SINGLE PAGE APPLICATION



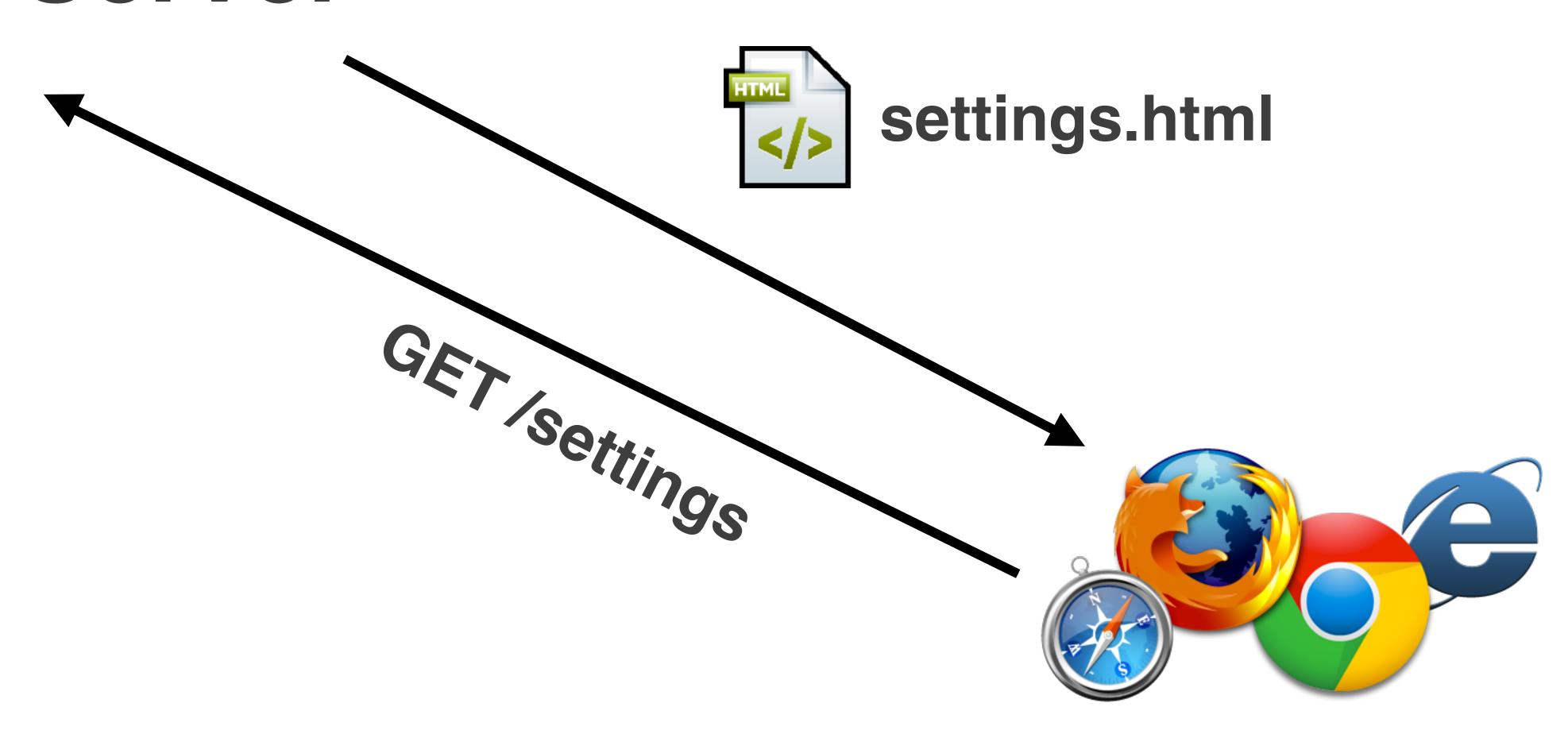
# Server



User clicks on link...



# Server



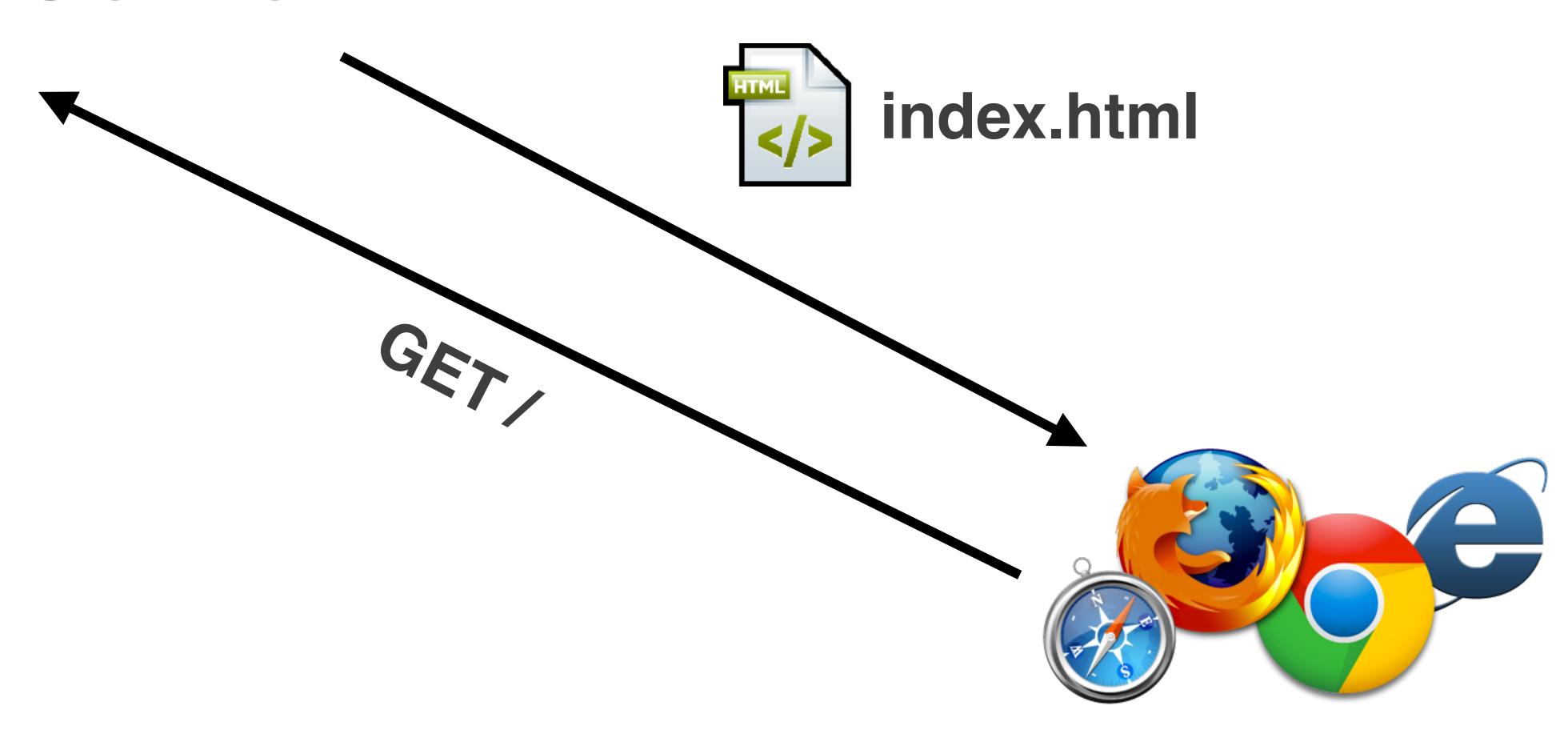
#### NOT SINGLE PAGE APPLICATIONS

- Views stored on the server, served up as HTML pages.
- When user goes to a new page, the browser navigates in totality, navigating, refreshing and retrieving a brand new HTML.
- Each page, since it is a new page, retrieves stylesheets, script files, etc.

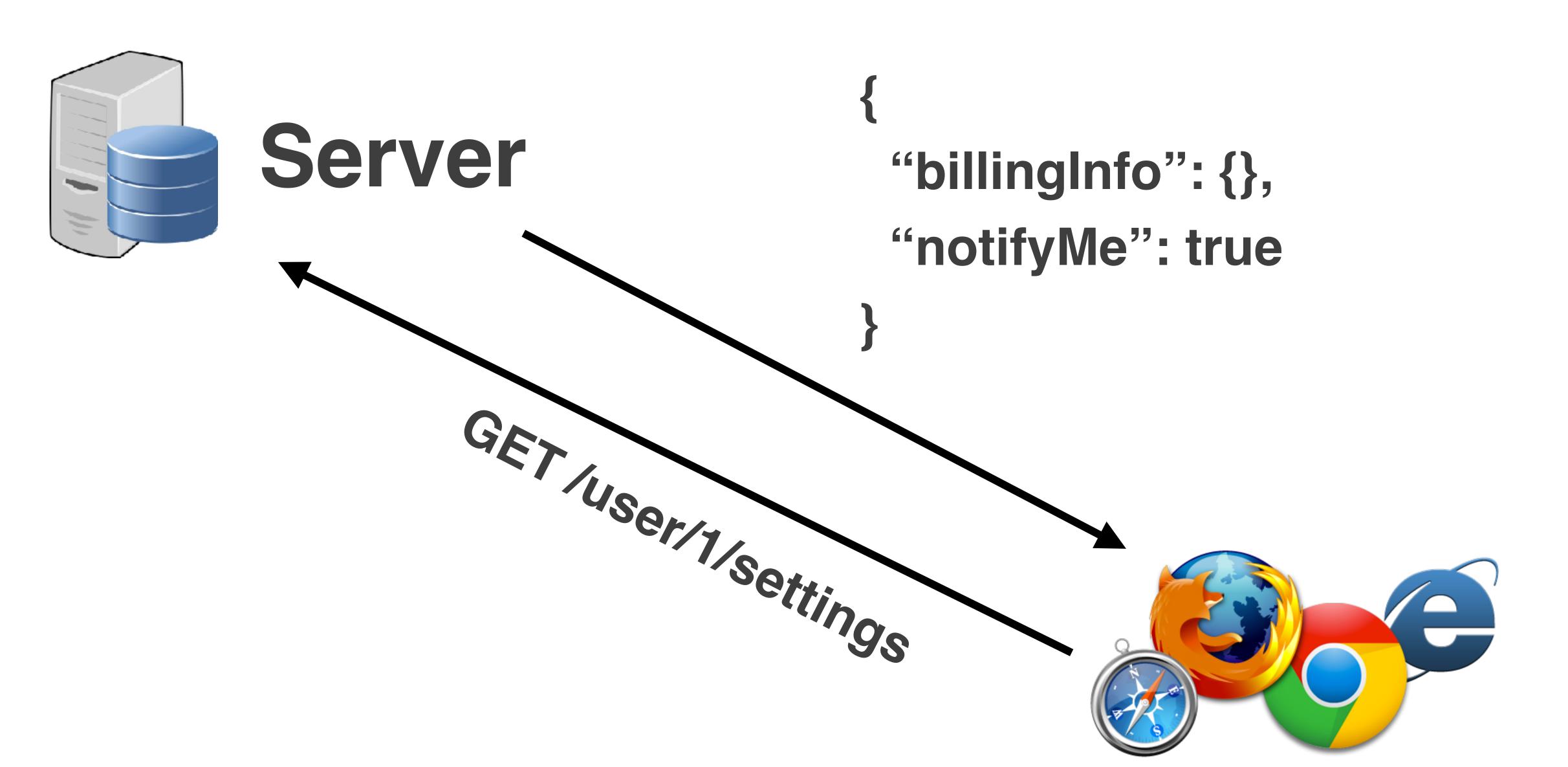
# SINGLE PAGE APPLICATION (SPA)



# Server



User clicks on link...



Display settings view

#### SINGLE PAGE APPLICATIONS

- On page change, a new page is not loaded. The front-end application replaces elements on existing DOM to update view.
- AJAX plays a big part to fill in data that would normally be served up by the server (think nunjucks).
- Browser History API allows for control of URL and back/ forward button, even though pages are not visited.



#### WHAT IS REACT-ROUTER?

- React Router keeps your Ul in sync with the URL.
- Ties into URL and history to allow for easy navigation to and between different parts of your application.
- Easily integrates nesting of components.

### ROUTE = URL + COMPONENT

### ROUTE = URL + COMPONENT

<Route path="/somepath" component={SomeComponent} />

# WHEN THE URL BAR MATCHES THE ONE SPECIFIED IN THE ROUTE, REACT-ROUTER CAUSES THAT COMPONENT'S RENDER FUNCTION TO EXECUTE

