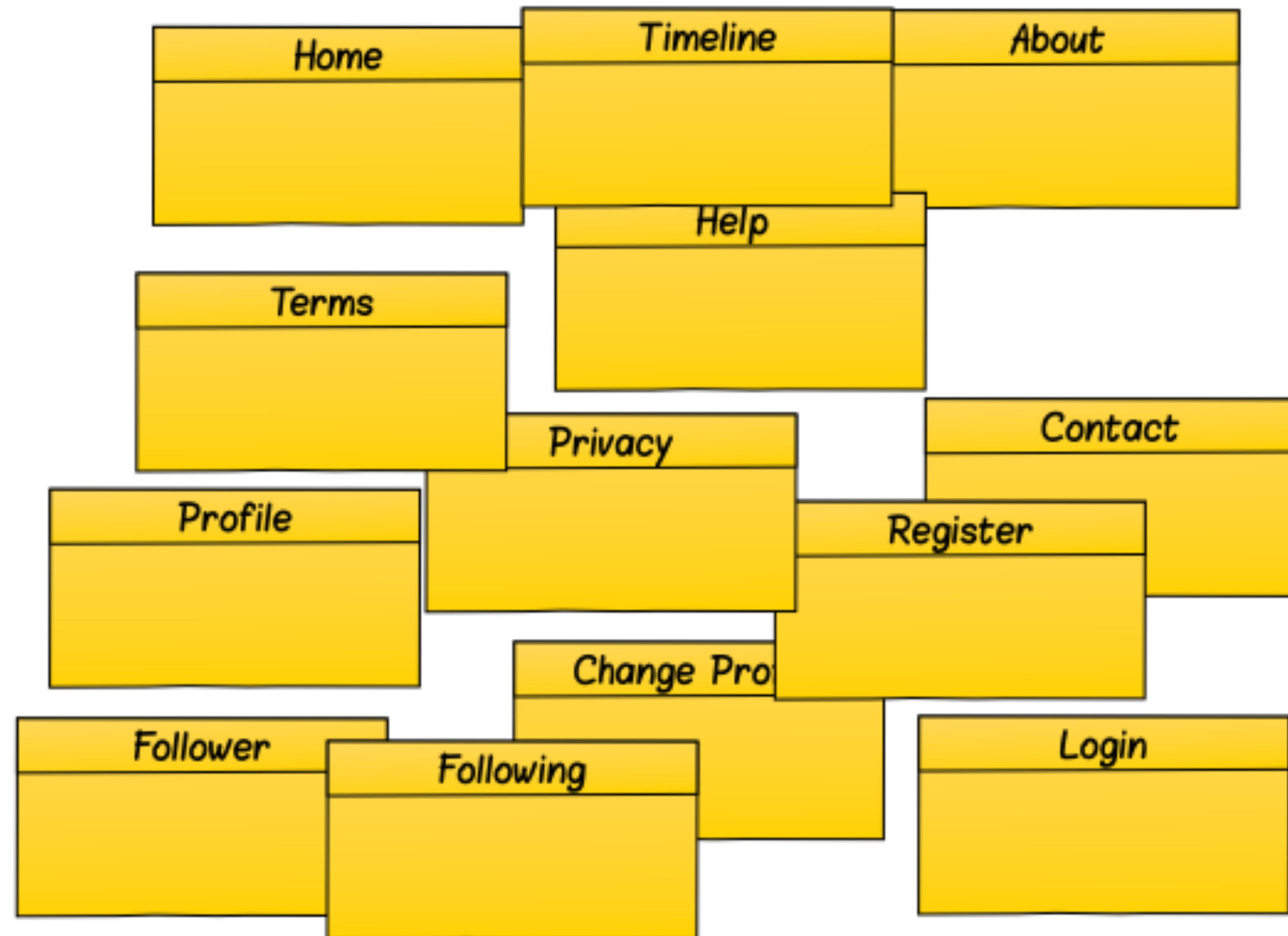


REACT ROUTER

Declarative routing for React



NOT SINGLE PAGE APPLICATION



Server



index.html

GET /



User clicks on link . . .



Server



settings.html

GET /settings



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



index.html

GET /



User clicks on link . . .



Server

```
{  
  "billingInfo": {},  
  "notifyMe": true  
}
```

GET /user/1/settings



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 UI 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

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

