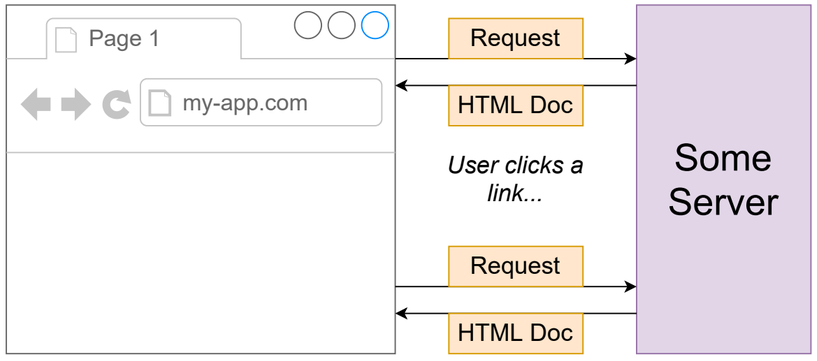
Navigation

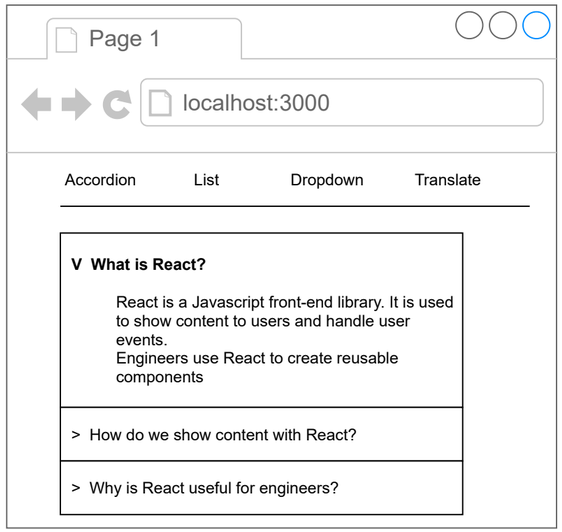
Showing different sets of components when the URL changes

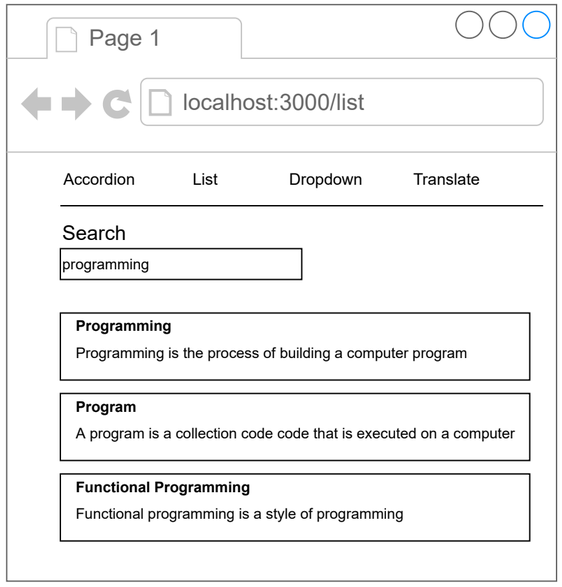
Majority of React apps use *React-Router*

However...

- React Router has frequent breaking changes
- More important to learn the ideas and theory of navigation
- We are going to build some navigation stuff from scratch!
- React-Router will be covered later in the course!!!!!!


Page 1
my-app.com
Request
HTML Doc
User clicks a link...
Request
HTML Doc
Some Server





User clicks on 'List'

Change the URL, but *don't do a full page refresh!*

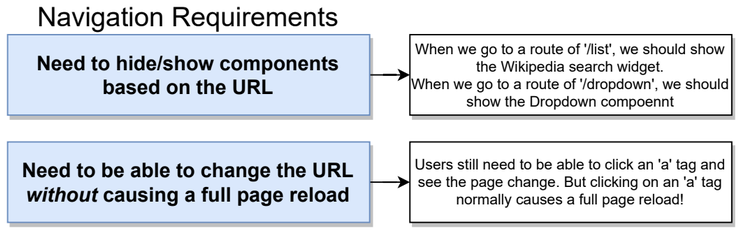
Each Route could detect the URL has changed

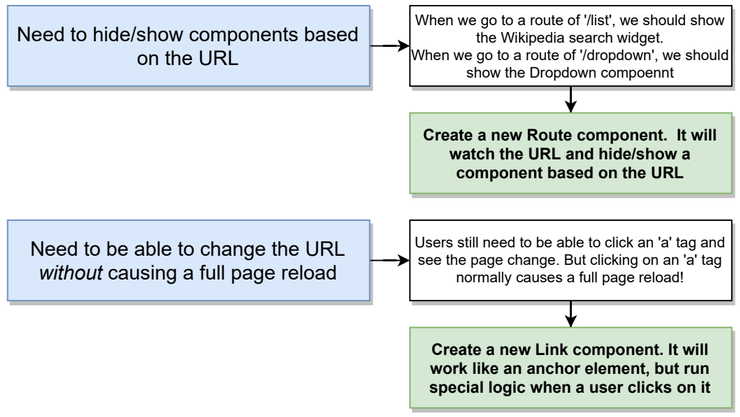
Route could update piece of state tracking the current pathname

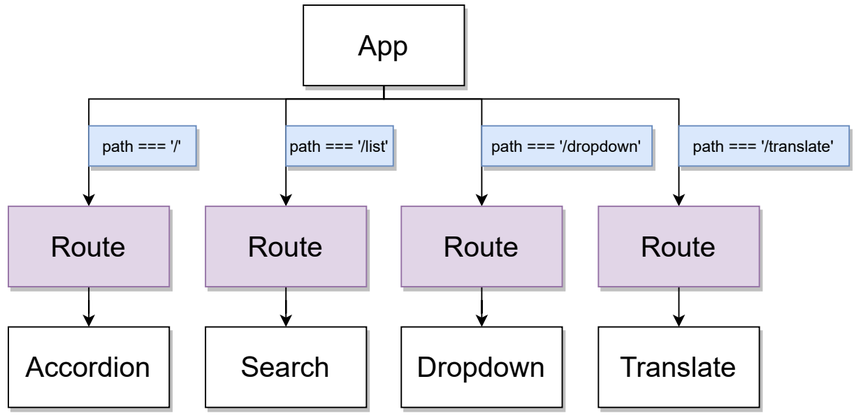
Each Route rerenders, showing/hiding components appropriately

Old-Style Navigation	React Navigation
Clicking a link causes a full page refresh	Clicking a link changes the component we display on the screen
Tends to be slow - users wait for content to appear on the screen	Tends to be really, really fast!

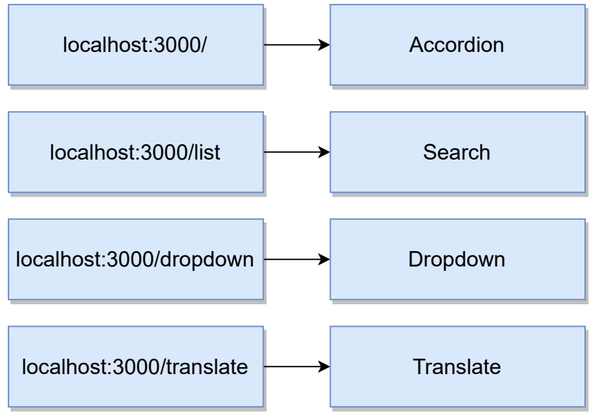
Navigation Requirements

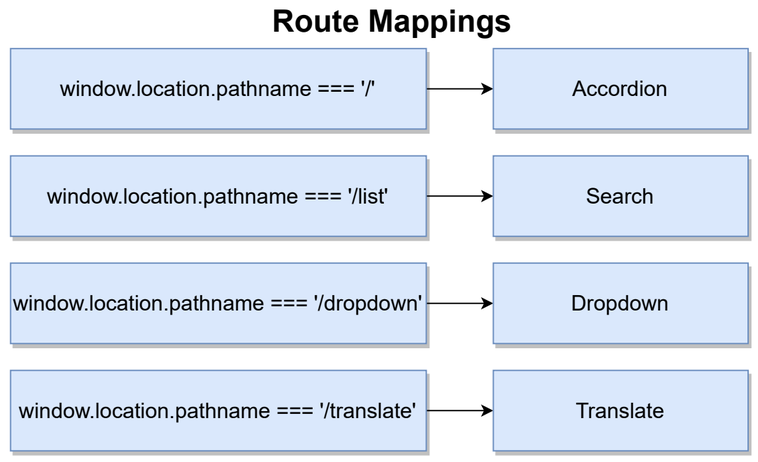


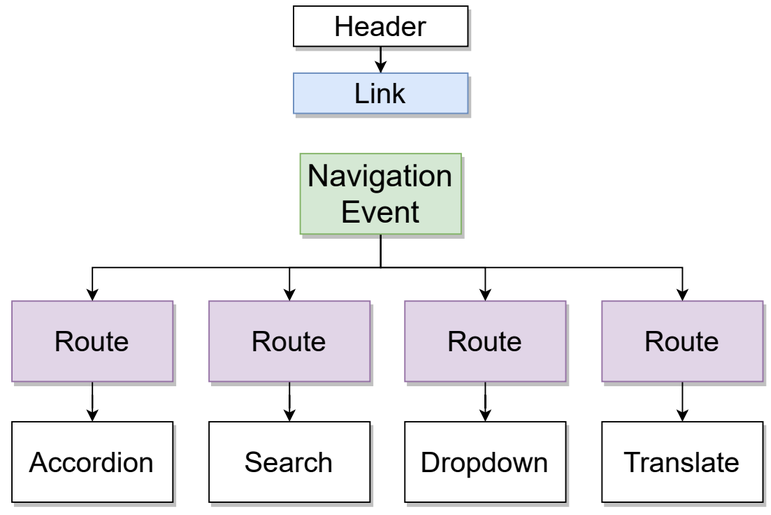

Need to hide/show components based on the URL
When we go to a route of '/list', we should show the Wikipedia search widget.
When we go to a route of '/dropdown', we should show the Dropdown compoennt
Create a new Route component. It will watch the URL and hide/show a component based on the URL
Need to be able to change the URL *without* causing a full page reload
Users still need to be able to click an 'a' tag and see the page change. But clicking on an 'a' tag normally causes a full page reload!
Create a new Link component. It will work like an anchor element, but run special logic when a user clicks on it


App
path === '/'
path === '/list'
path === '/dropdown'
path === '/translate'
Route
Route
Route
Route
Accordion
Search
Dropdown
Translate

Route Mappings




Route Mappings
window.location.pathname === '/'
Accordion
window.location.pathname === '/list'
Search
window.location.pathname === '/dropdown'
Dropdown
window.location.pathname === '/translate'
Translate


Header
Link
Navigation Event
Route
Route
Route
Route
Accordion
Search
Dropdown
Translate