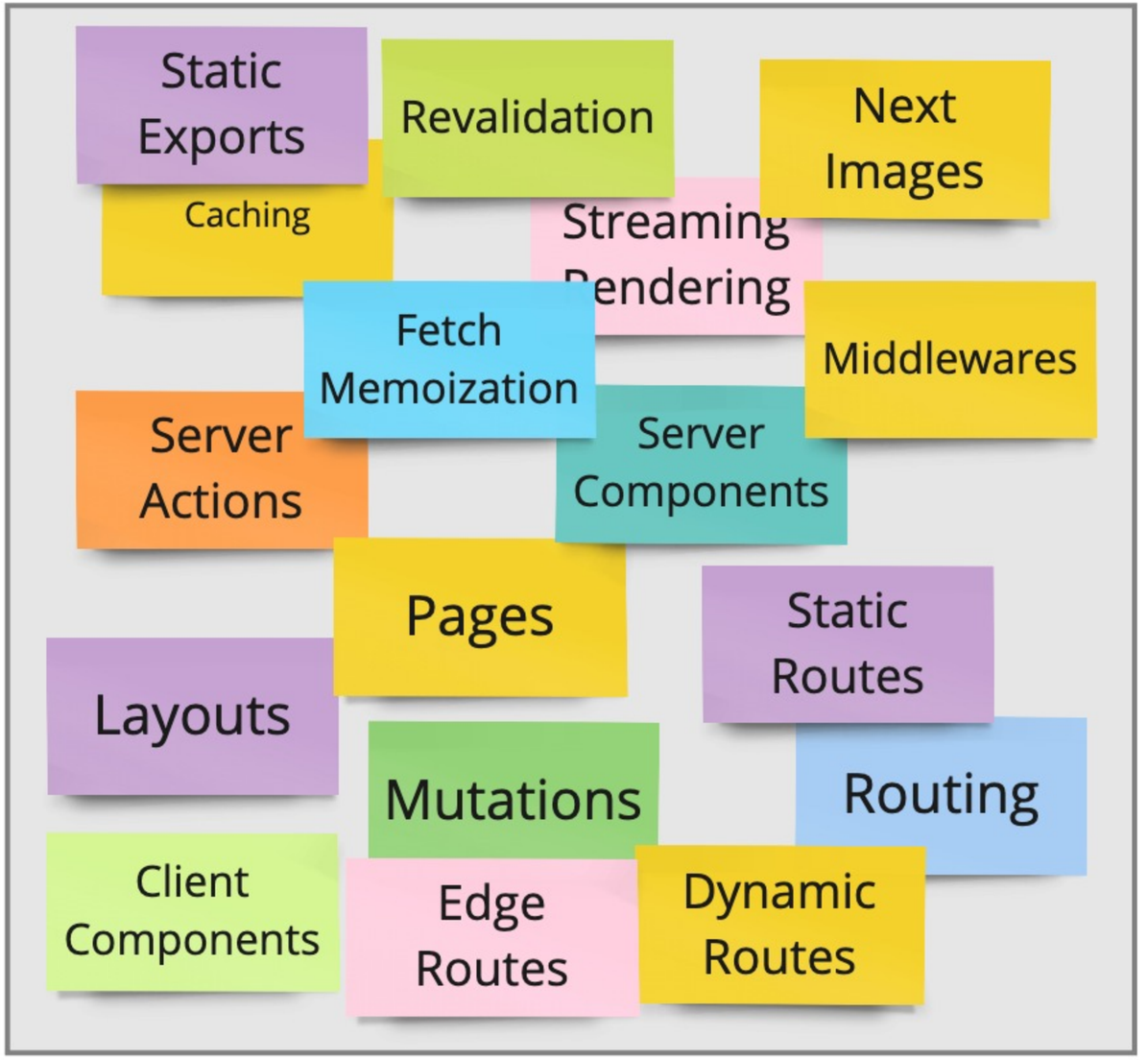
Next!

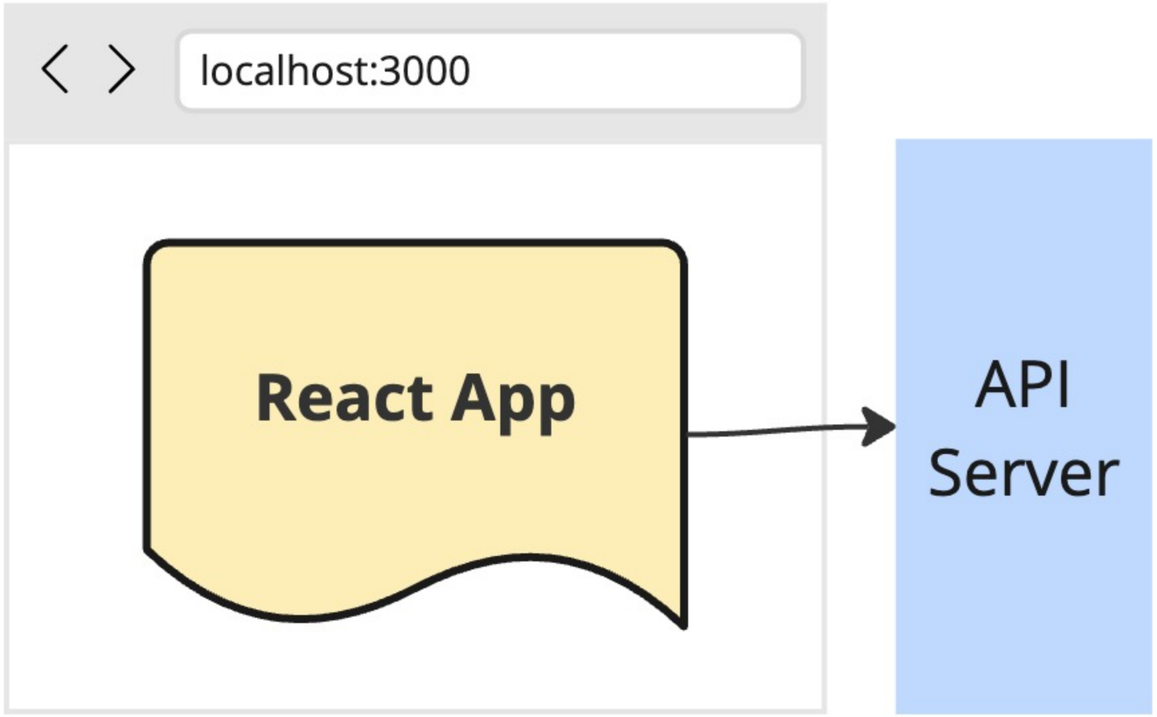
Stephen Grider



Theres a LOT going on with Next

Many topics and ideas that are all connected

Traditional React App

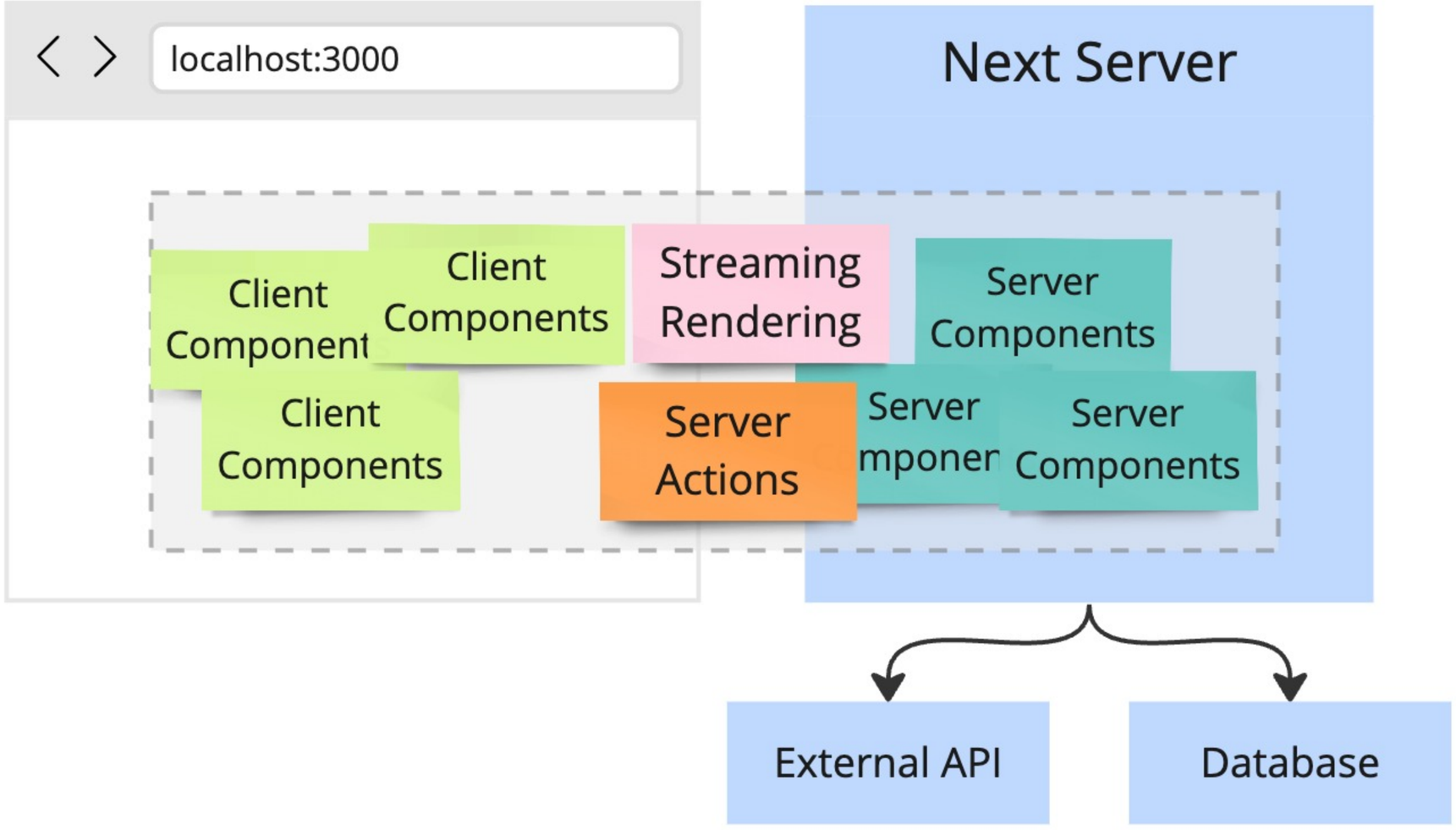


All JS running in the browser

(Relatively) mature state management with Context, Redux, etc

Your app behaves (relatively) the same in dev and production

Usually, React used when we need a dynamic app - lots of stuff to click on, lots of data fetching



JS split between browser and server - need to keep track of where our code is running

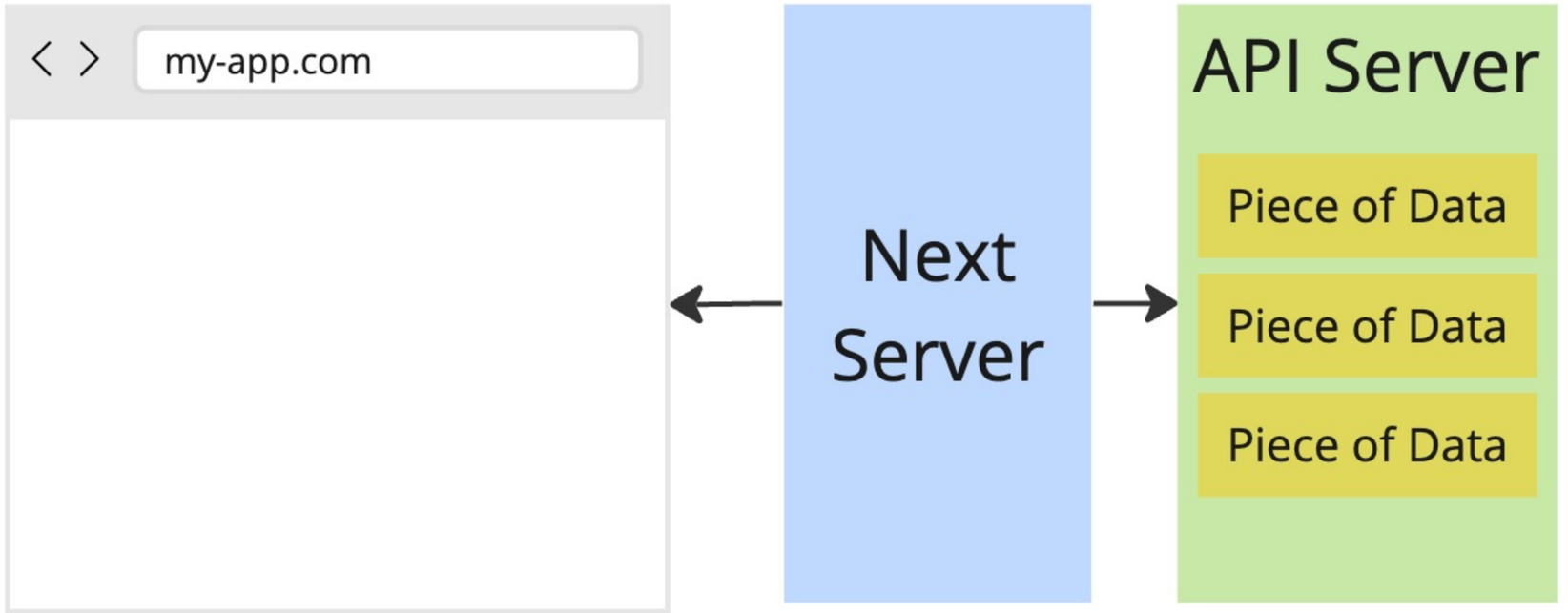
New React features! New kinds of components

New ways to manage state

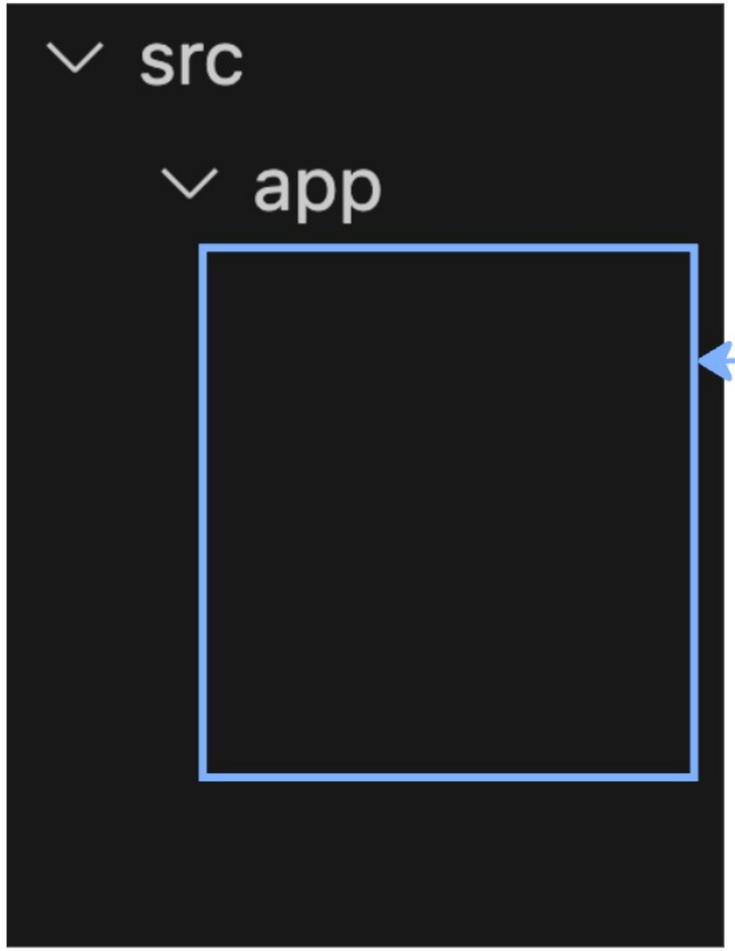
App behaves can behave *very very differently* between dev and production

First App

Super simple - fetch data from an API and show it on the screen

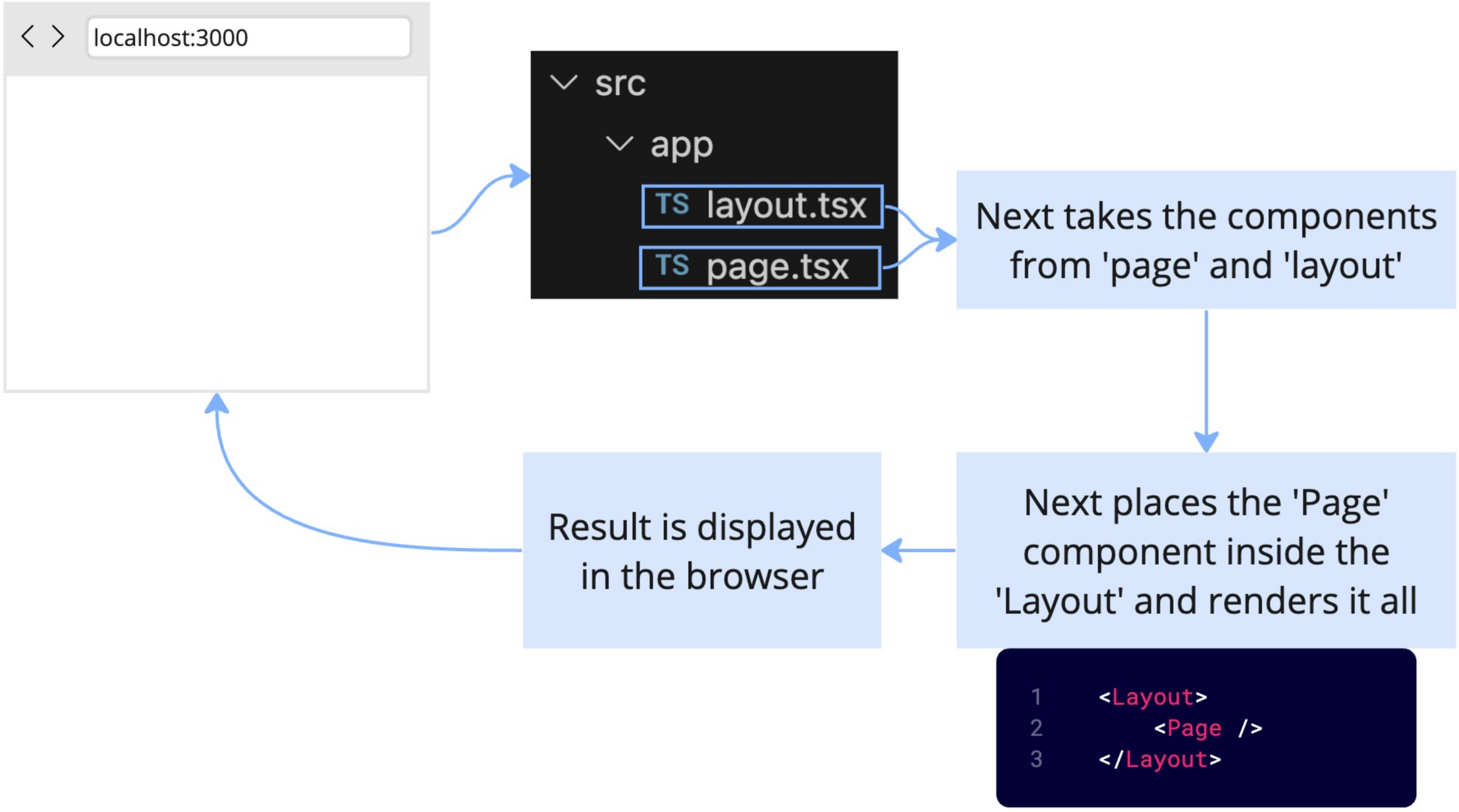


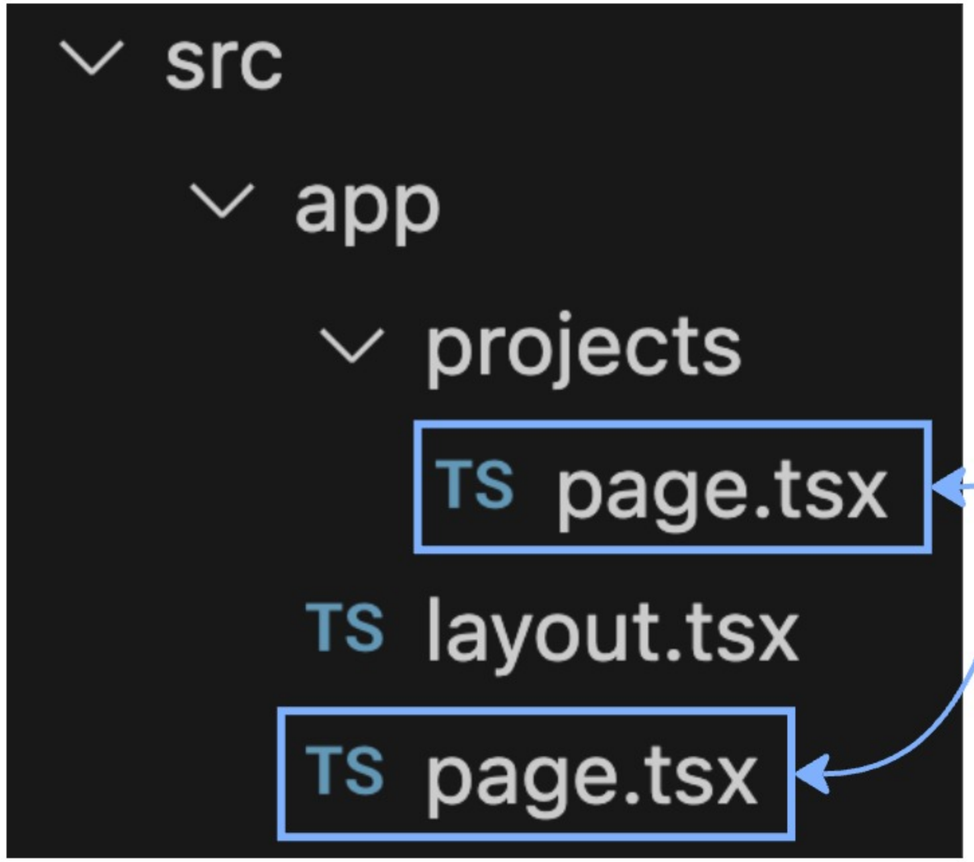
```
npx create-next-app@latest
```



The 'src/app' folder is super special

The files and folders we create in here define the different routes that we can visit

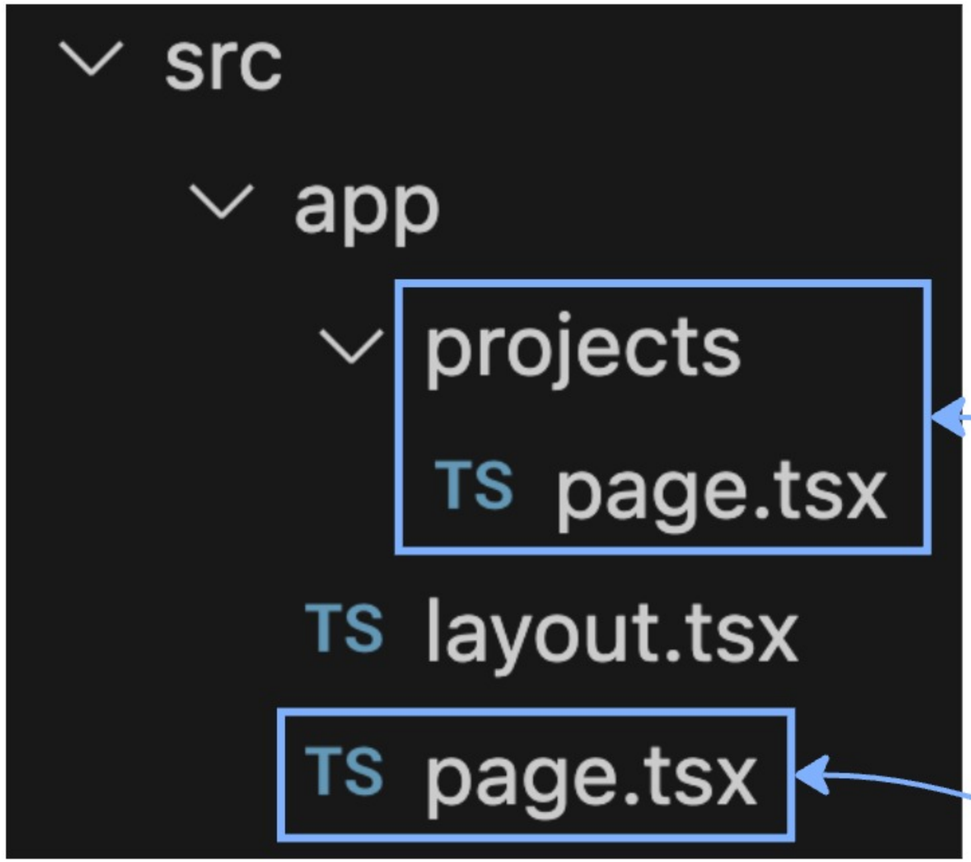

localhost:3000
src
app
TS layout.tsx
TS page.tsx
Next takes the components from 'page' and 'layout'
Next places the 'Page' component inside the 'Layout' and renders it all
<Layout>
<Page />
</Layout>
Result is displayed in the browser



Next finds all the files called specifiaclly '**page.tsx**' in the app folder

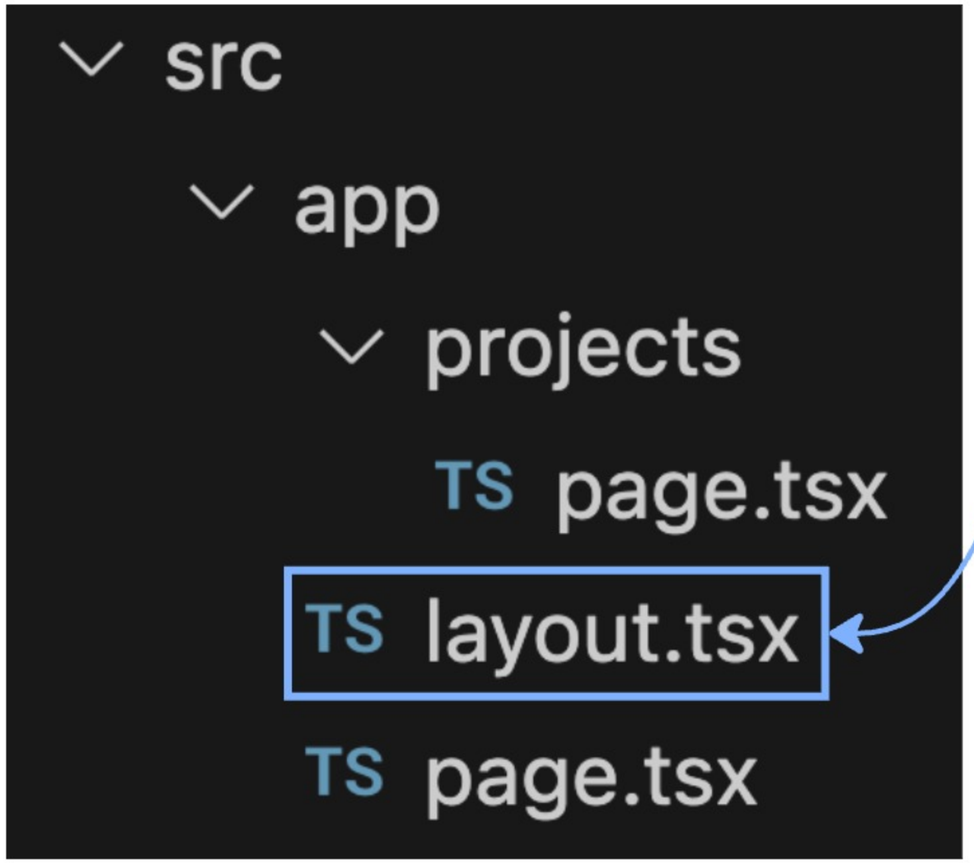
Each one defines a new route that the user can visit

The folders that the '**page.tsx**' file is nested in defines the route



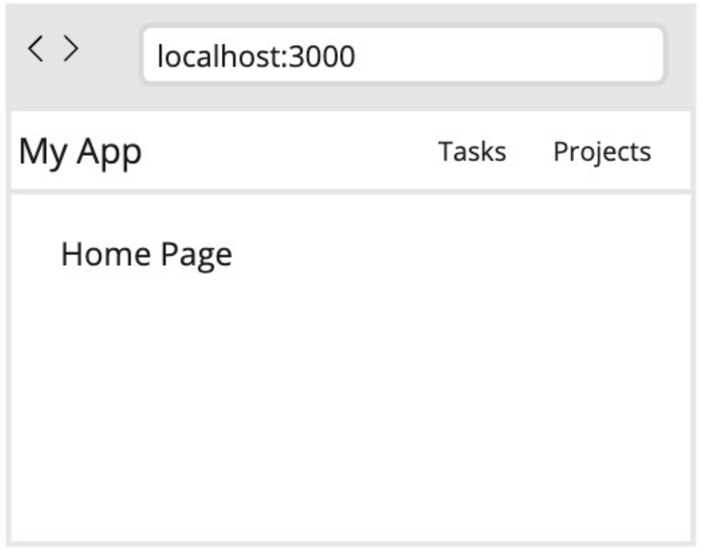
Displayed when the user goes to localhost:3000**/projects**

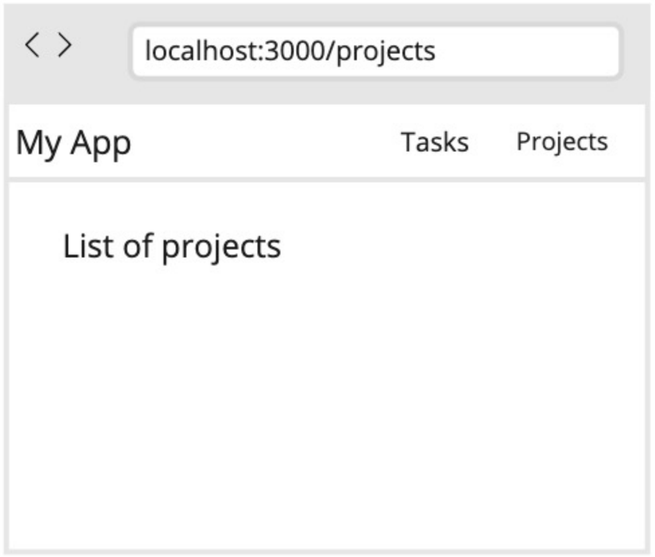
Displayed when the user goes to localhost:3000

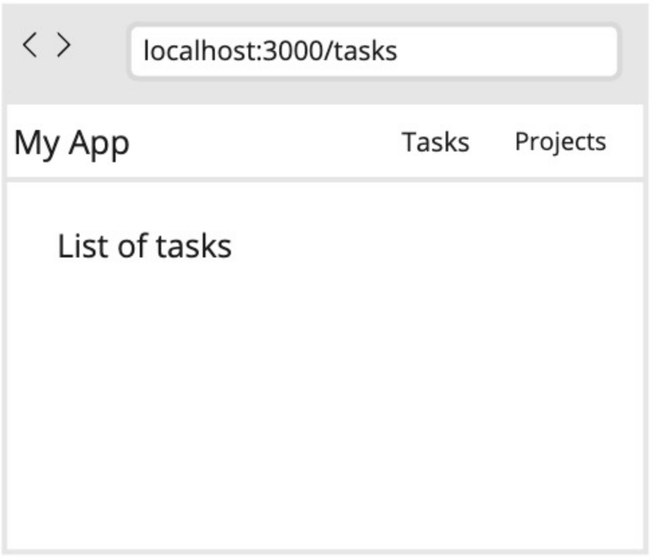


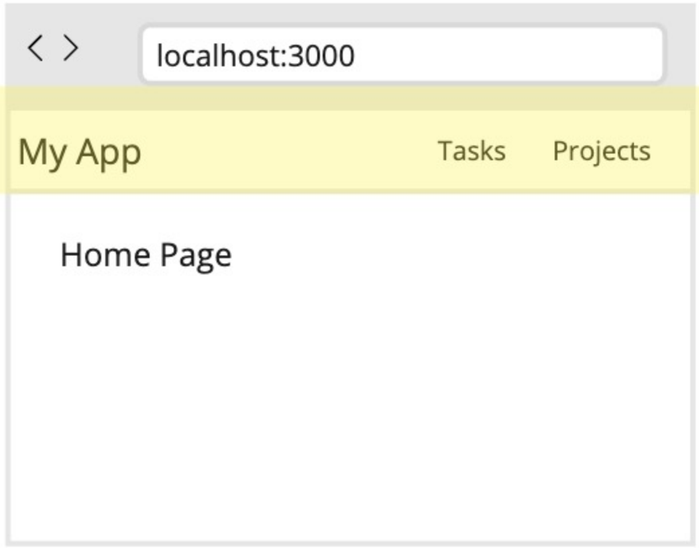
When Next has decided which page.tsx file to show, it is displayed in the **layout.tsx** file

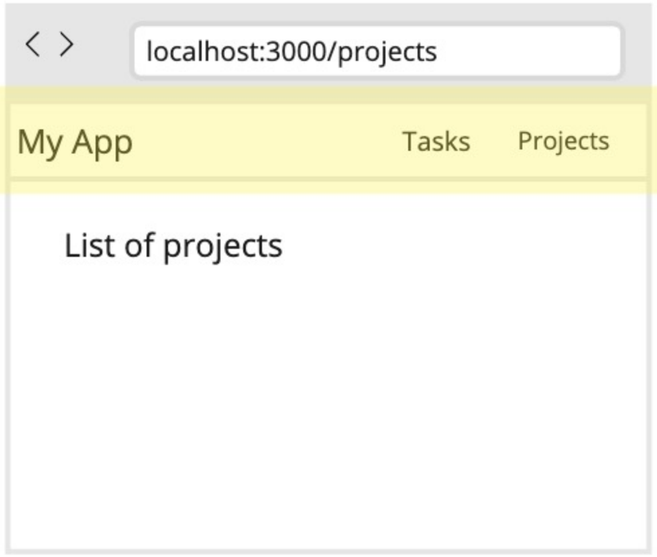
The **layout.tsx** file is used to display elements common to many pages

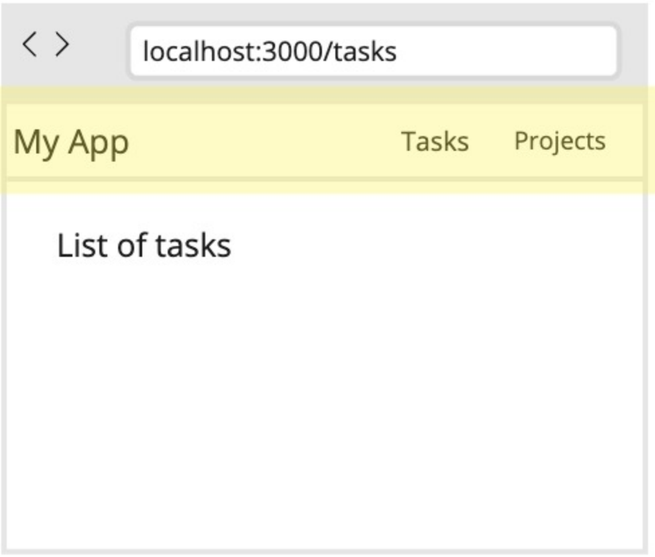

localhost:3000
My App
Tasks
Projects
Home Page


localhost:3000/projects
My App
Tasks
Projects
List of projects


localhost:3000/tasks
My App
Tasks
Projects
List of tasks



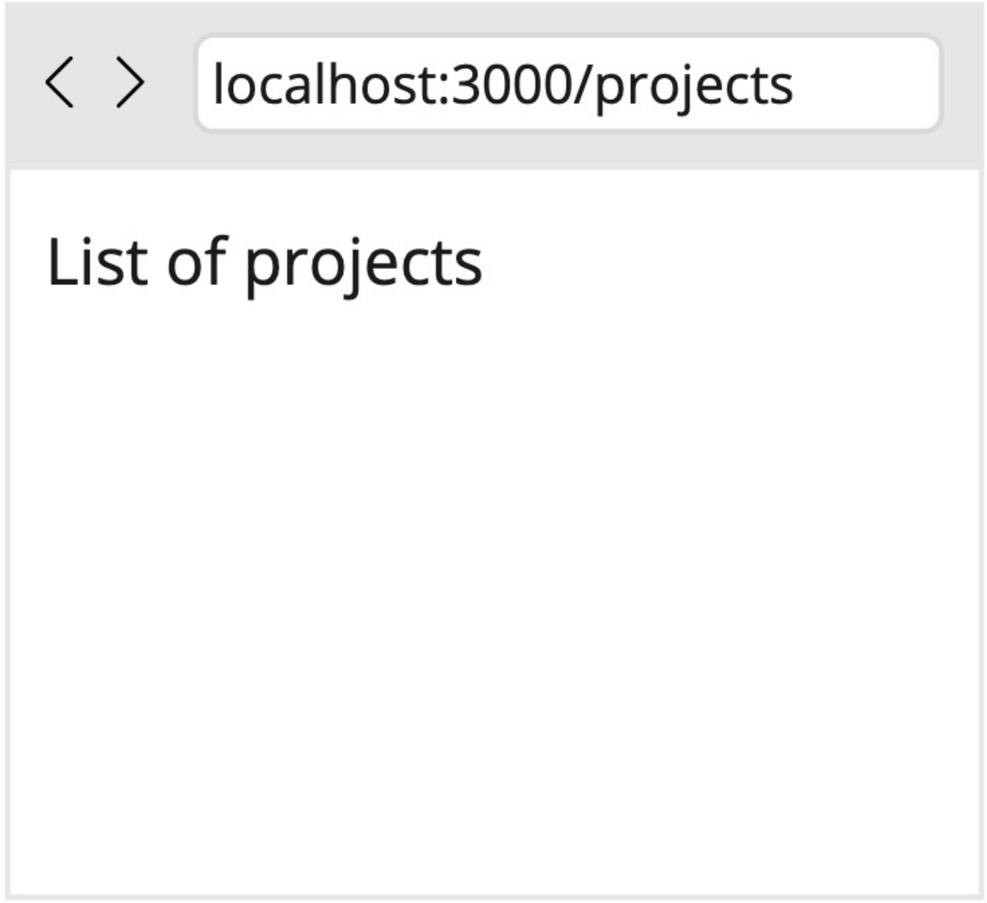




Each page has identical content at the top - place that content in the **layout.tsx** file!

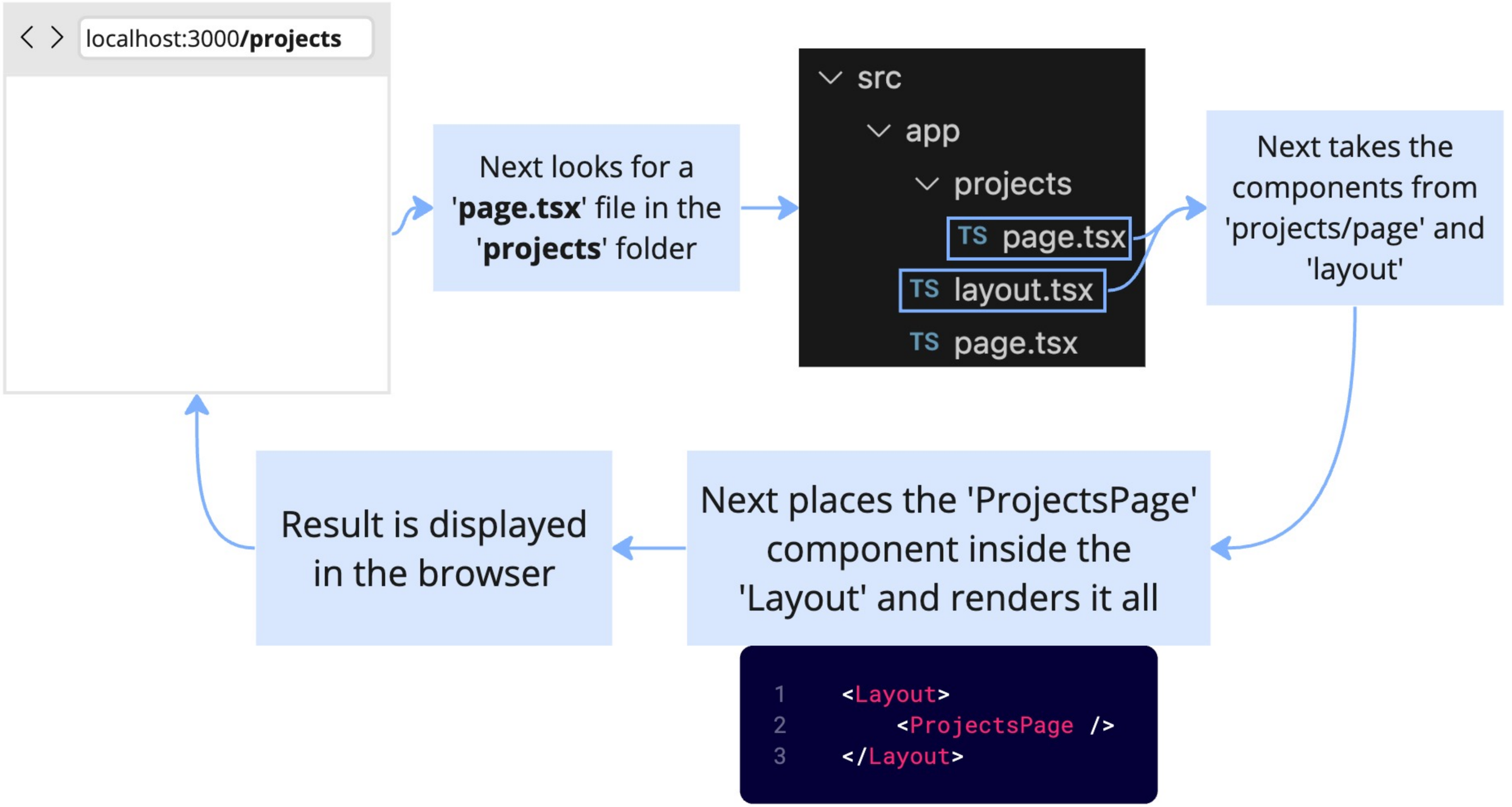
The 'page.tsx' file in the 'app' folder is our root route

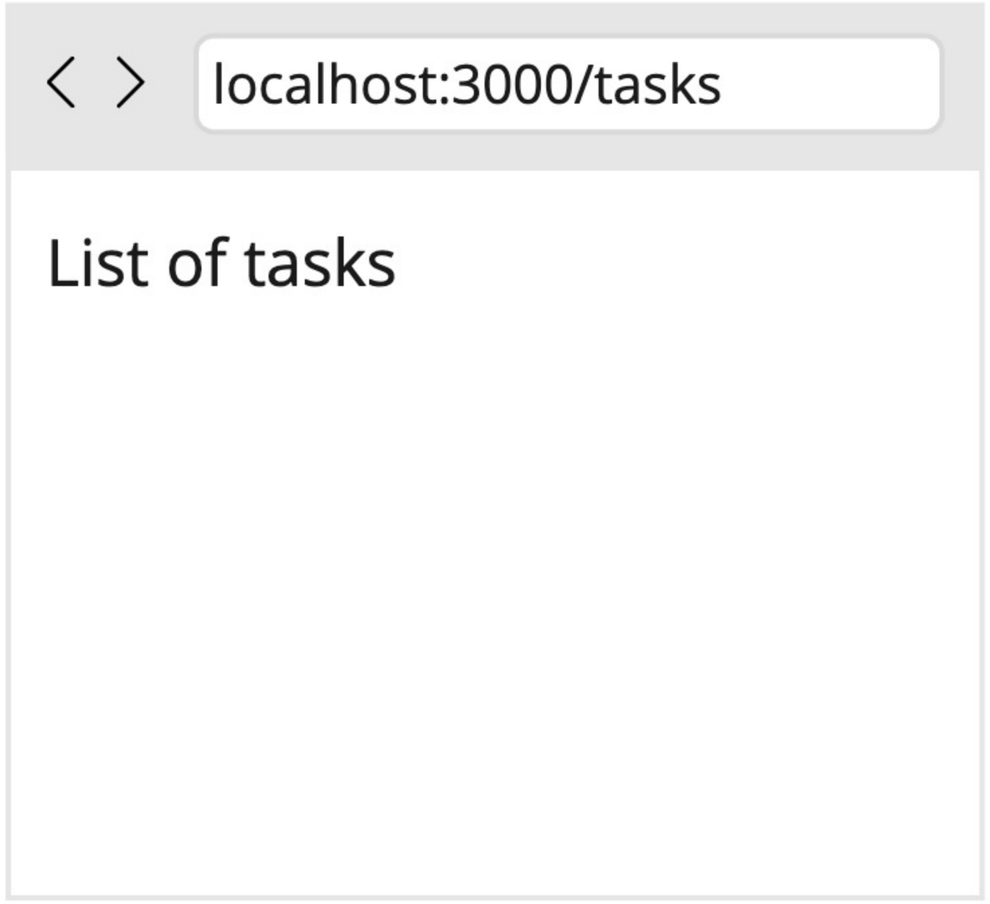
It gets displayed when a user goes to 'localhost:3000'



New Route!

When a user goes to
localhost:3000/projects
Show some text on the screen


localhost:3000/projects
Next looks for a 'page.tsx' file in the 'projects' folder
src
app
projects
page.tsx
layout.tsx
page.tsx
Next takes the components from 'projects/page' and 'layout'
Next places the 'ProjectsPage' component inside the 'Layout' and renders it all
<Layout>
<ProjectsPage />
</Layout>
Result is displayed in the browser



Exercise!

When a user goes to
localhost:3000/tasks
Show the text
"List of tasks"