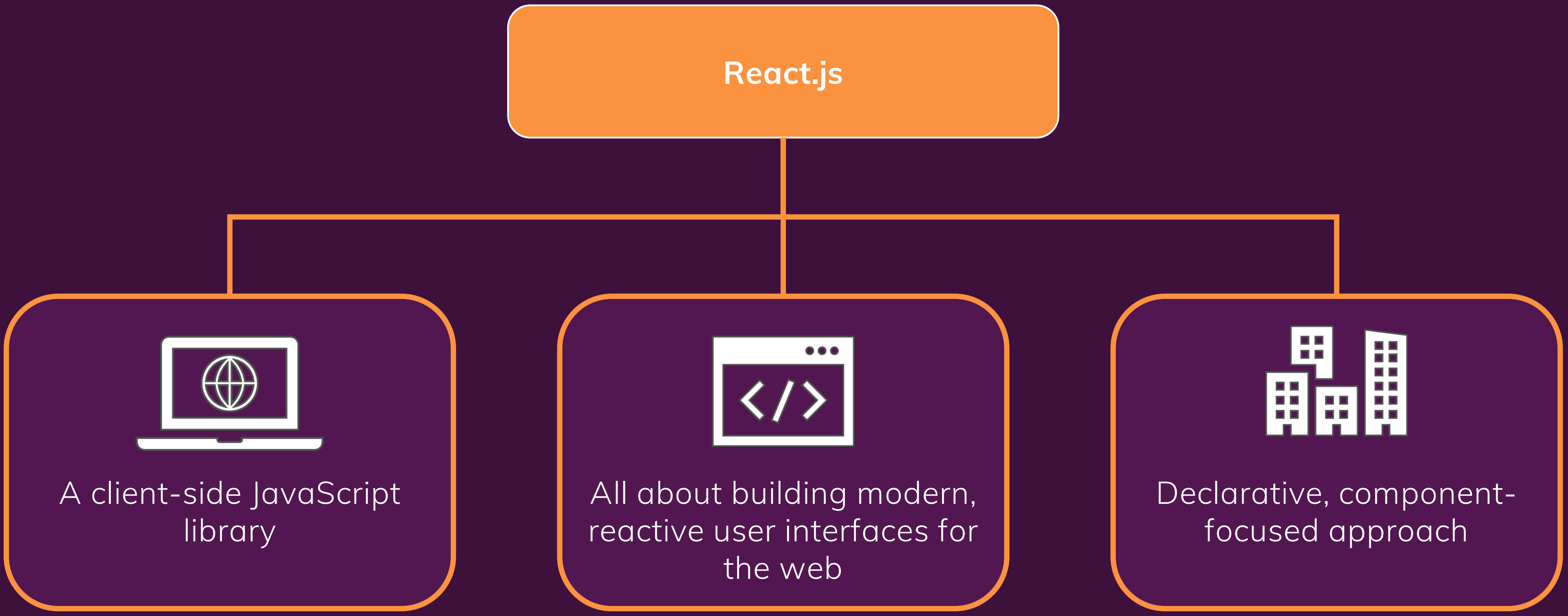
What Is React? And Why Would We Use It?

React is a JavaScript library for
building user interfaces

React makes building complex, interactive and reactive user interfaces simpler

What is React.js?

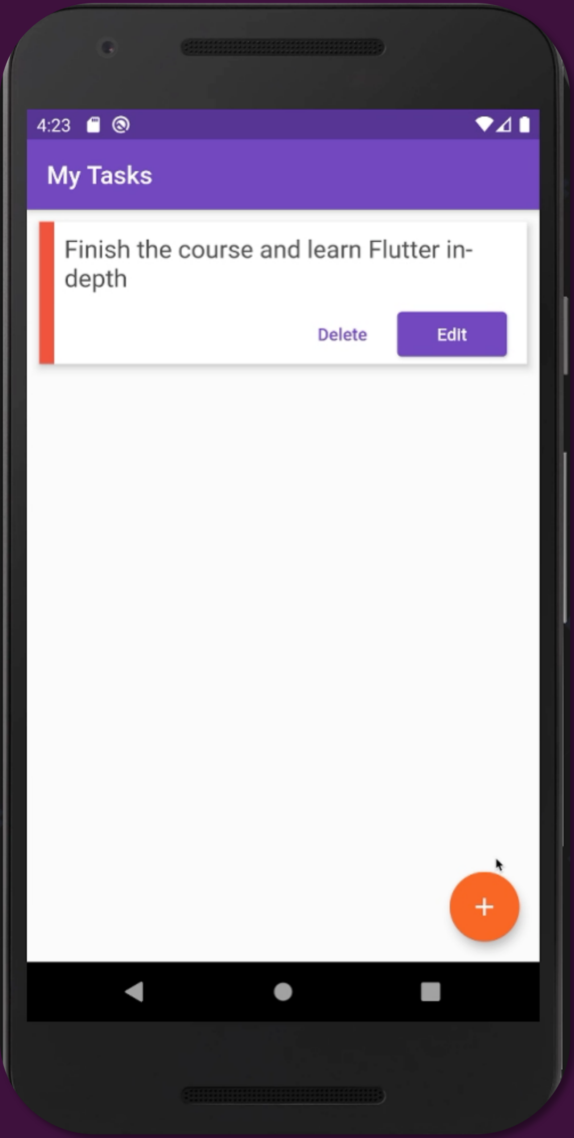


React.js

A client-side JavaScript library

All about building modern, reactive user interfaces for the web

Declarative, component-focused approach

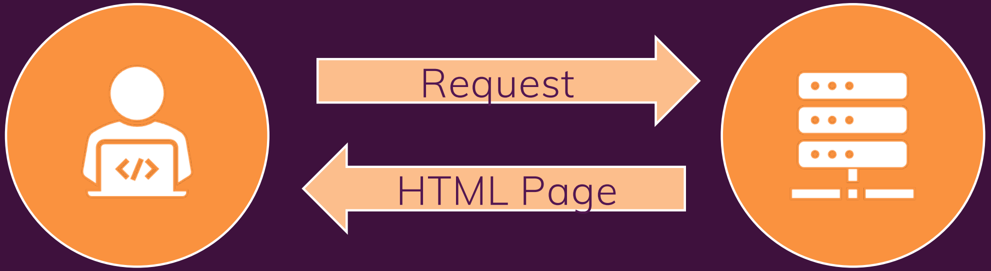


My Tasks

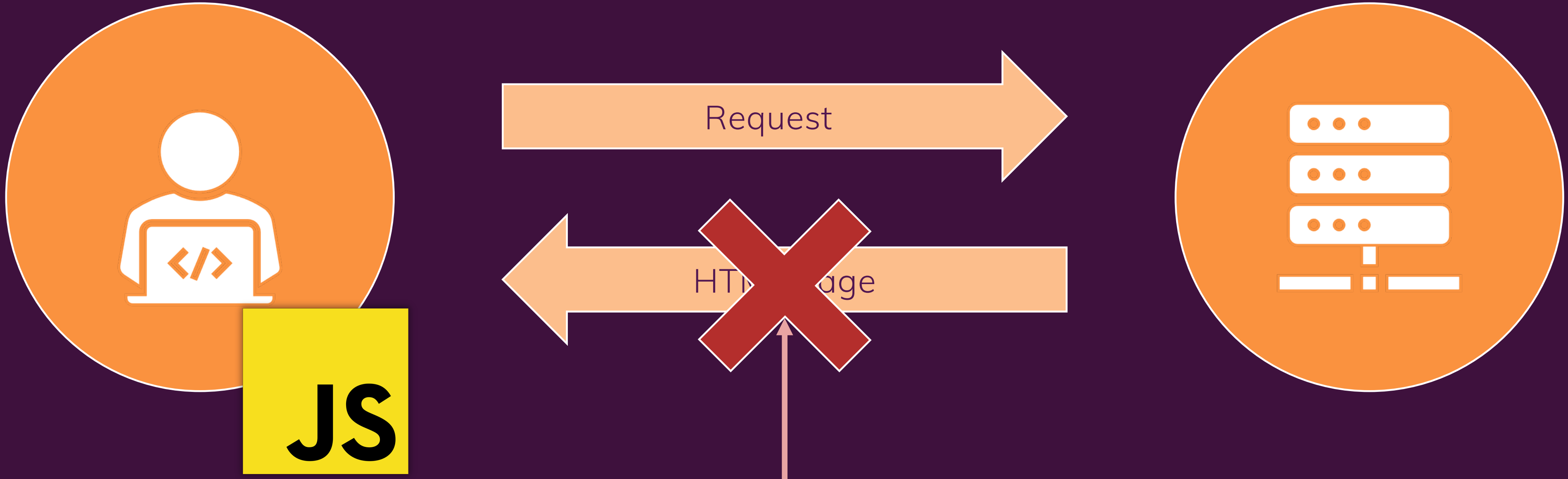
Finish the course and learn Flutter in-depth

Mobile apps and desktop apps feel very “reactive”: Things happen instantly, you don’t wait for new pages to load or actions to start.

Traditionally, in web apps, you click a link and wait for a new page to load. You click a button and wait for some action to complete.



JavaScript To The Rescue!



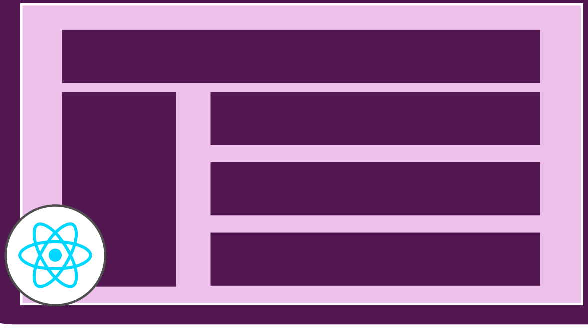
JavaScript runs in the browser – on the loaded page.

You can manipulate the HTML structure (DOM) of the page.

No (visible) request to the server required, no need to wait for a new HTML page as a response.

Building Single-Page-Applications (SPAs)

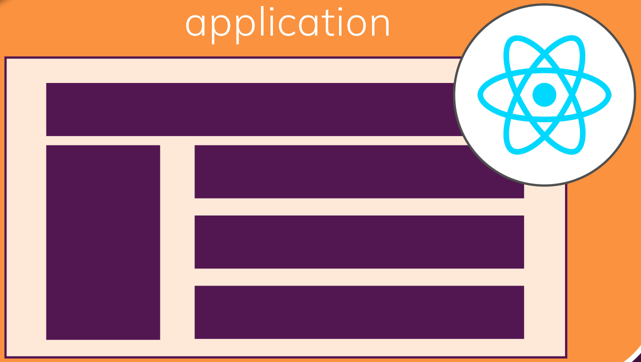
React can be used to **control parts** of HTML pages or entire pages.



“**Widget**” approach on a multi-page-application.
(Some) pages are still **rendered on and served by a backend server**.

In this course!

can also be used to **control the entire frontend** of a web application



“Single-Page-Application” (**SPA**) approach. Server **only sends one HTML page**, thereafter, React takes over and controls the UI.

ACADEMIND

HTML, CSS & JavaScript are about building user interfaces as well

React.js Alternatives

Angular

Complete component-based UI framework, packed with features. Uses TypeScript. Can be overkill for smaller projects.

React.js

Lean and focused component-based UI library. Certain features (e.g. routing) are added via community packages.

Vue.js

Complete component-based UI framework, includes most core features. A bit less popular than React & Angular.