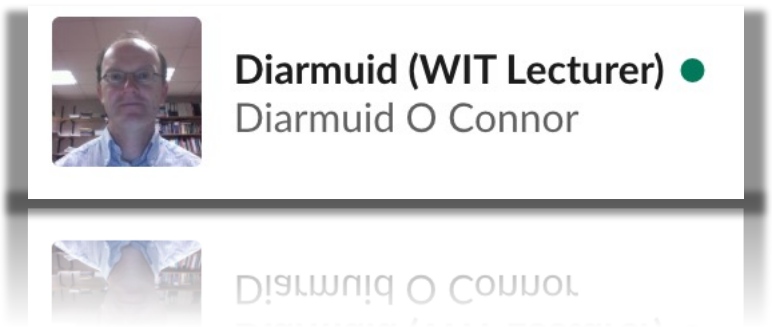
Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

H. Dip. In Computer Science (Online)

ICT Skills II

Overview

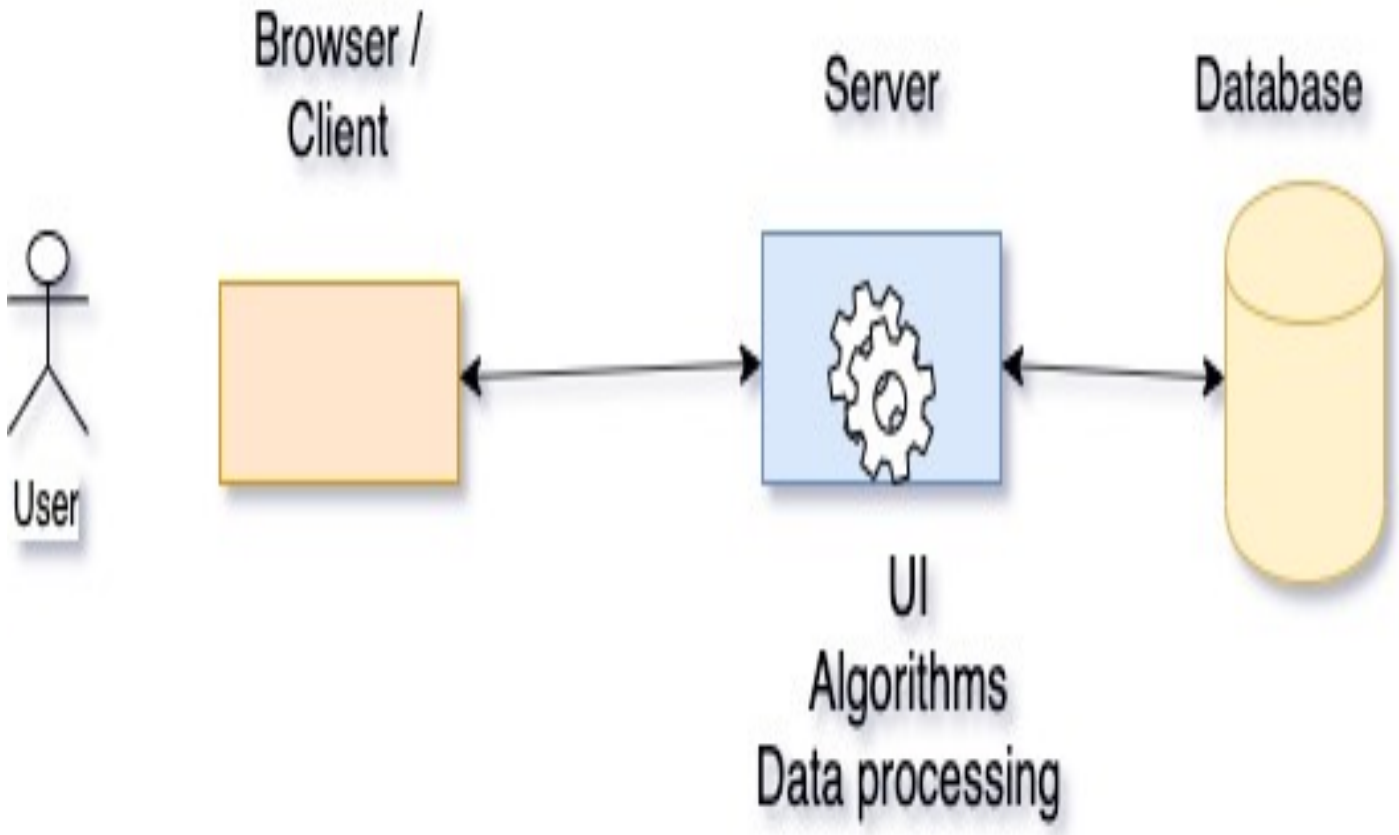
Diarmuid O' Connor (doconnor@wit.ie)



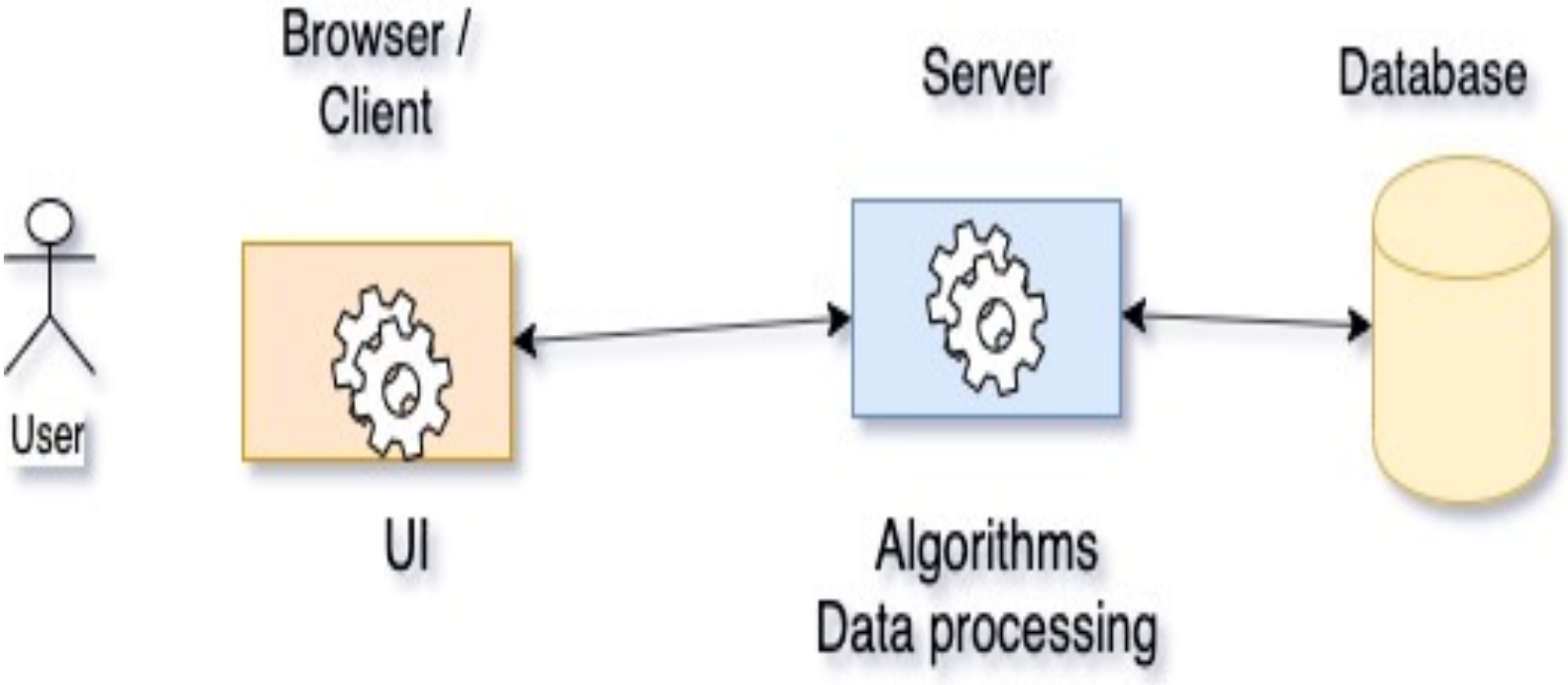
Objective (Learning outcome).

- Design, implement (and test) client-side rendering web apps using industry-standard frameworks and tools.

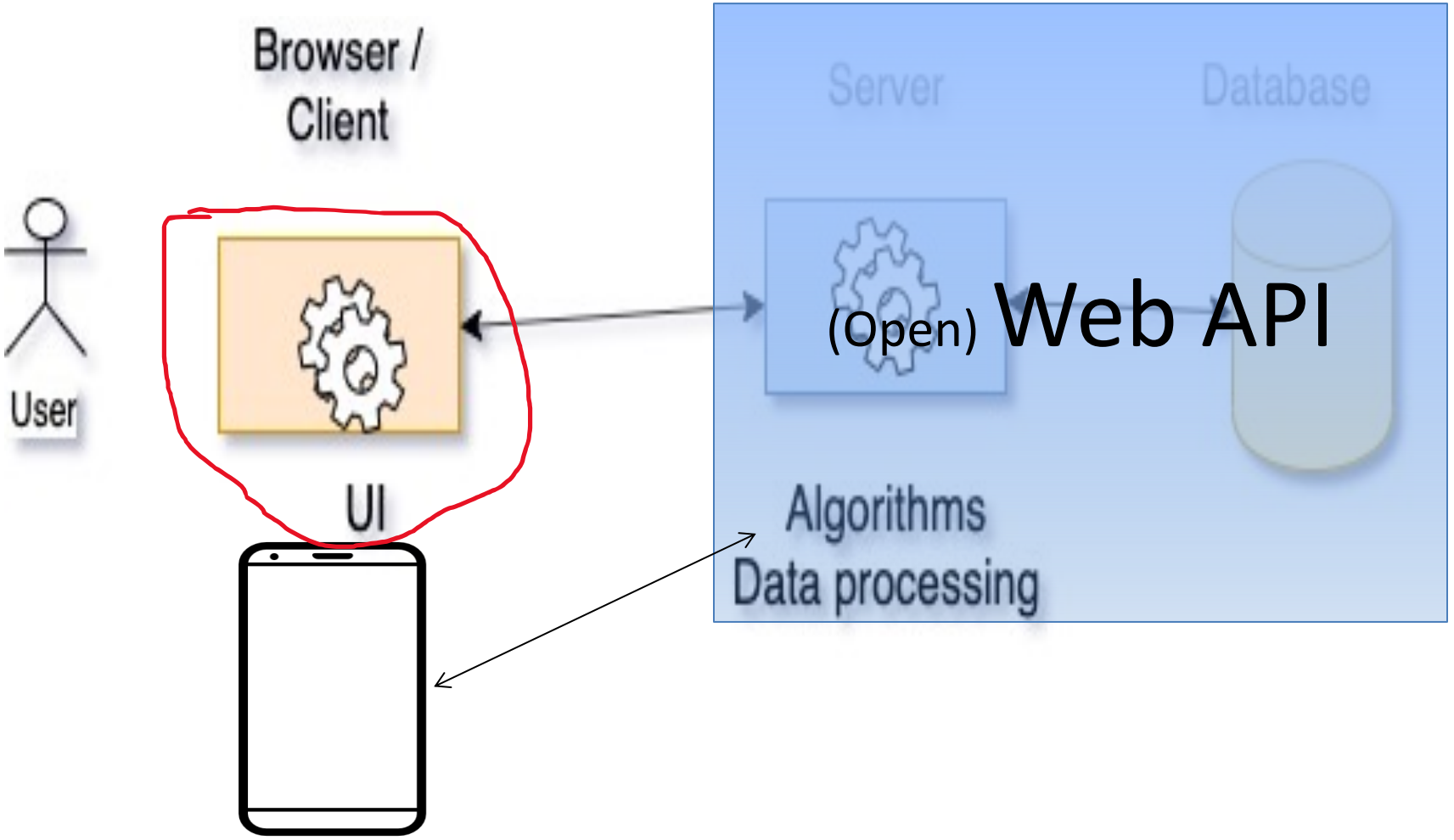
Web Apps Architecture – **Server-Side** Rendering (SSR)



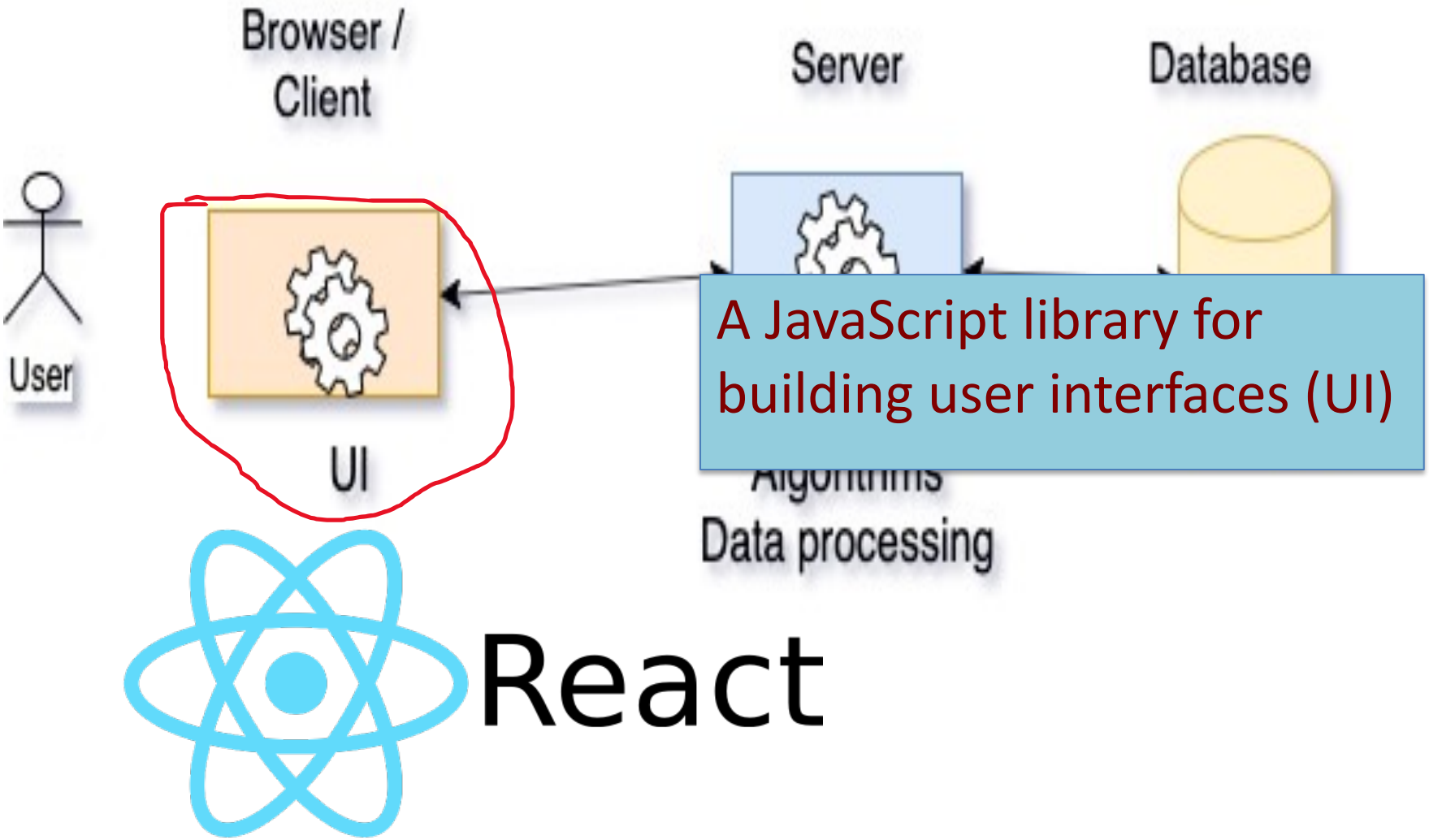
Web Apps Architecture – **Client-Side** Rendering (CSR)



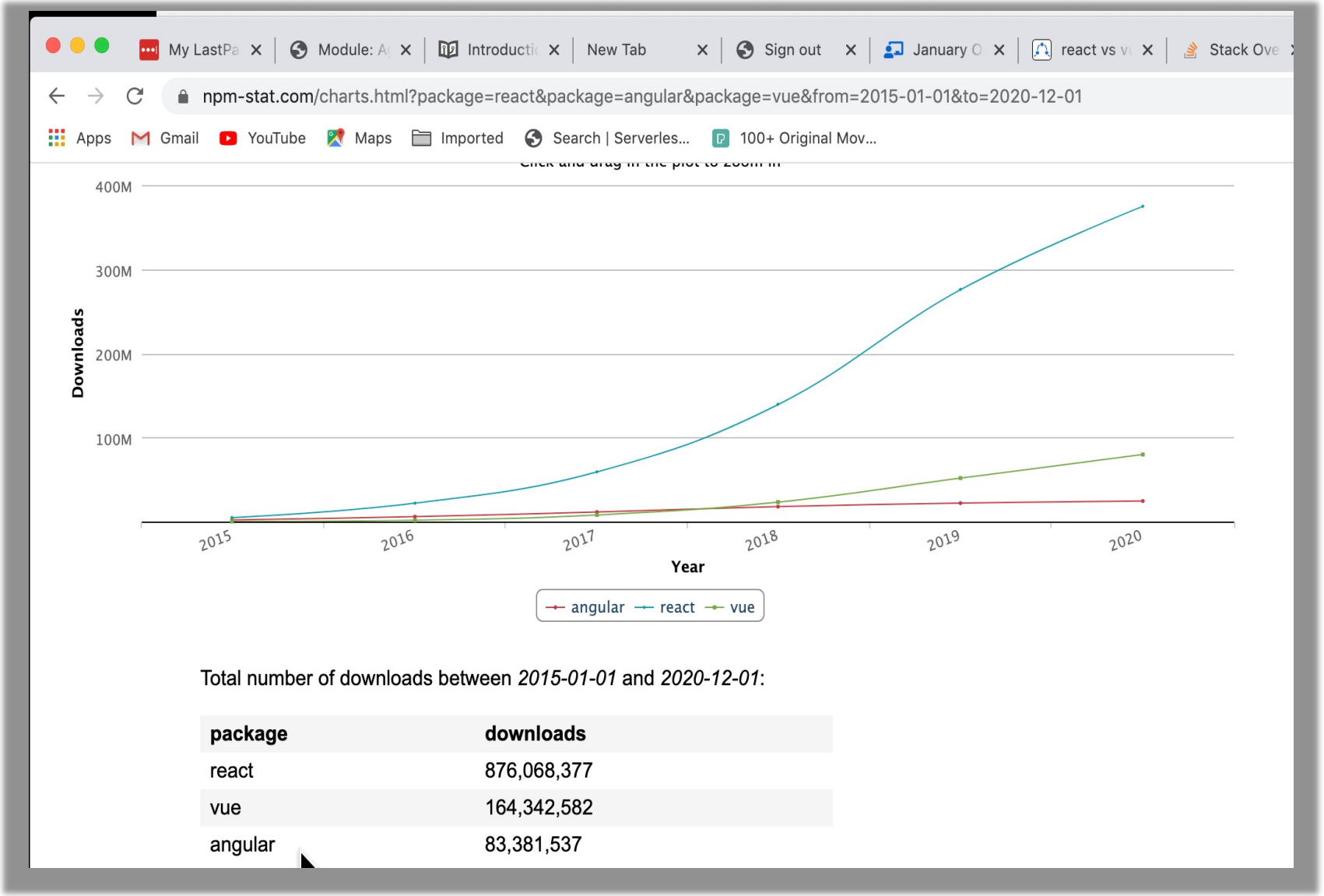
ICT Skills II



Industry-standard Frameworks



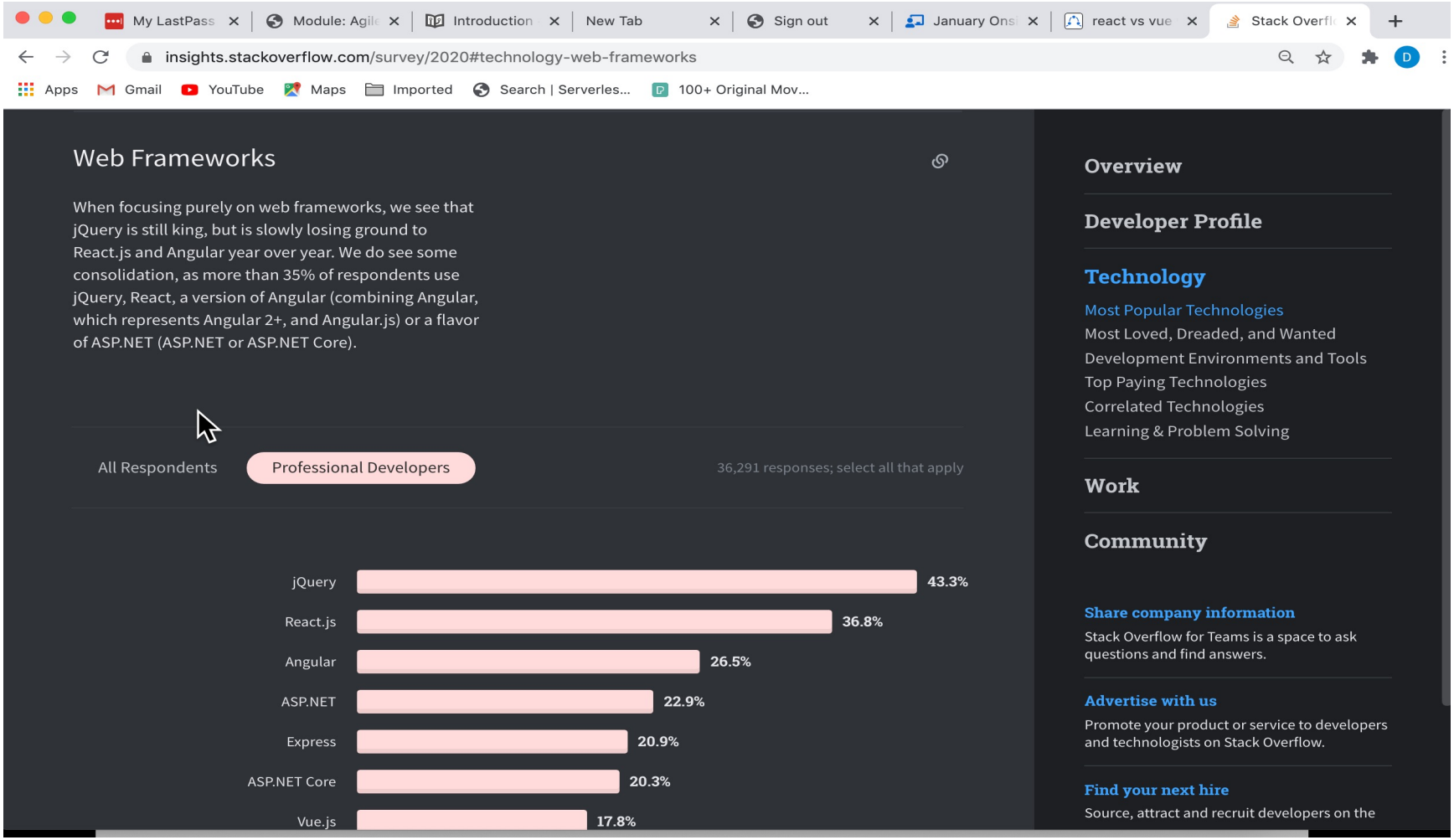
Industry-standard Frameworks.



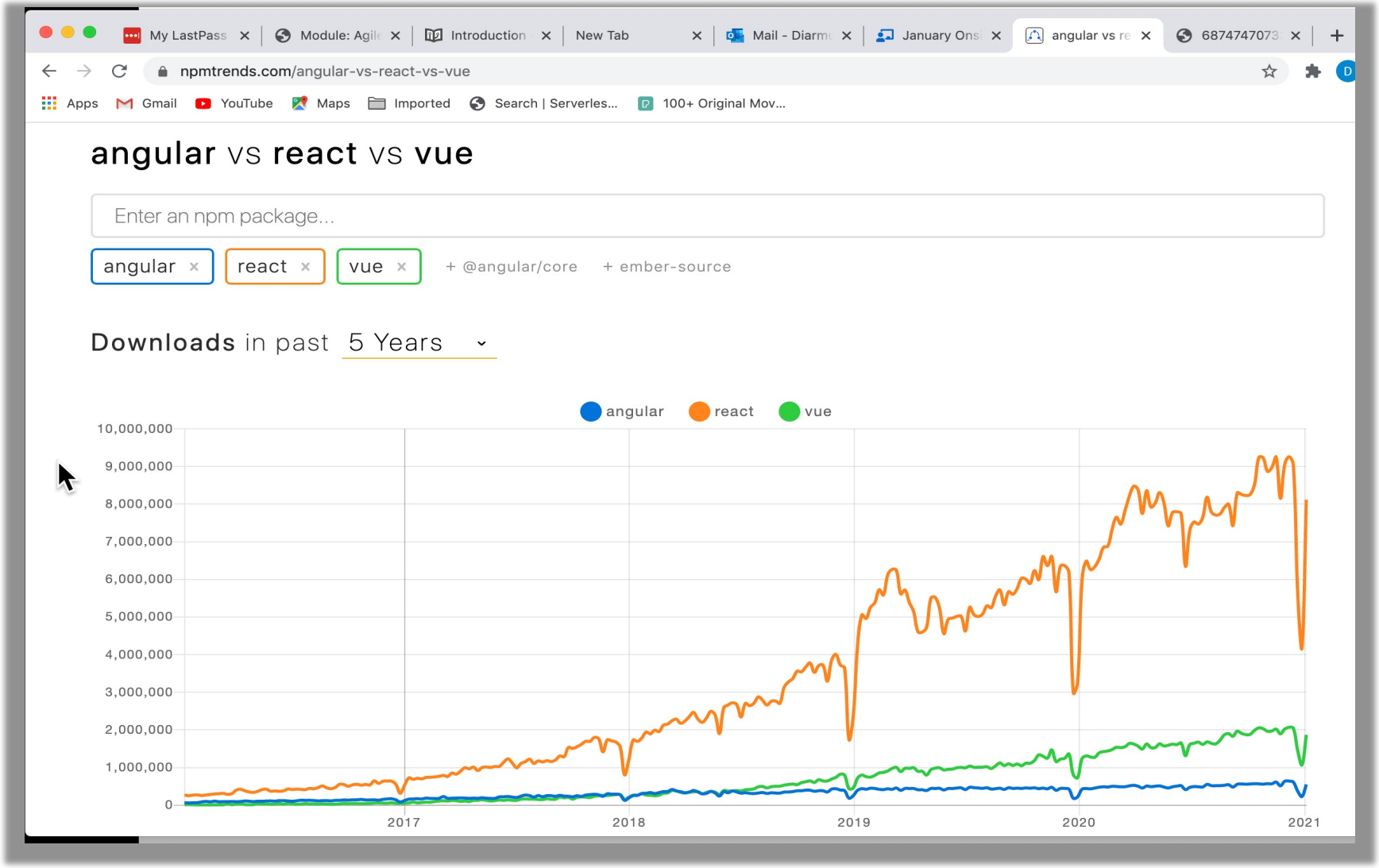
Total number of downloads between *2015-01-01* and *2020-12-01*:

package	downloads
react	876,068,377
vue	164,342,582
angular	83,381,537

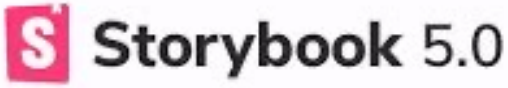
Industry-standard Frameworks.



Industry-standard Frameworks.



Industry-standard Tools.



Visual Studio Code

Table of Content (Last year)

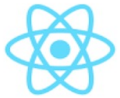
ICT Skills 2

Diarmuid O' Connor, WIT

Module overview,

A look at the context for this module.

Introduction to React and Storybook.

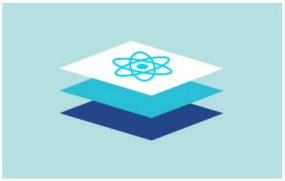


Examine the basics of React's component model, including class declaration, JSX, props, composition, iteration. Introduce the Storybook development tool.

React: The Component model.

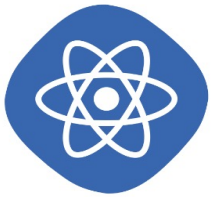
Examine the core aspects of the component model, including state, hooks, and unidirectional data flow.

Navigation & Designing with React.



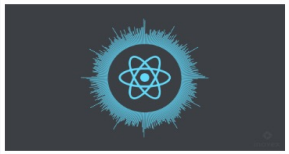
Adding navigation to a React app. Explain the Thinking in React design process.

React: Design and Routing.



Explore some more navigation features available in React Router. Introduction to Design patterns in relation to React app development.

React: Design and Routing (Contd.)



Explore some more

Assessment.

Module assignment requirements.

Click to add notes

Assessment

- Lab work.
  - 1 submit.
  - End of term.
  - 40 %
- Assignment/Project.
  - Submit mid-August.
  - 60 %

Questions?