What is React's virtual DOM, why is it important, and how does it work?

Every webpage displays a DOM (Document Object Model), which displays the content from our HTML file. When making changes to a page, the entire DOM will need to repaint itself. Which is slow and can lead to issues.

React introduces what they call their virtual DOM. Which is a collection of virtual DOM objects that is a representation of a DOM object. The virtual DOM allows you to manipulate objects much quicker than the traditional DOM and allows individual components to be updated rather than refreshing the entire DOM.

URL: https://www.codecademy.com/article/react-virtual-dom
URL: https://www.youtube.com/watch?v=jwRAdGLUarw

What is Webpack and what problem does it solve?

Webpack is a static module bundler that solves the problem of managing and bundling various static assets, such as JavaScript files, CSS files, images, and more, for web applications.

URL:
https://www.freecodecamp.org/news/an-intro-to-webpack-what-it-is-and-how-to-use-it-8304ecdc3c60/