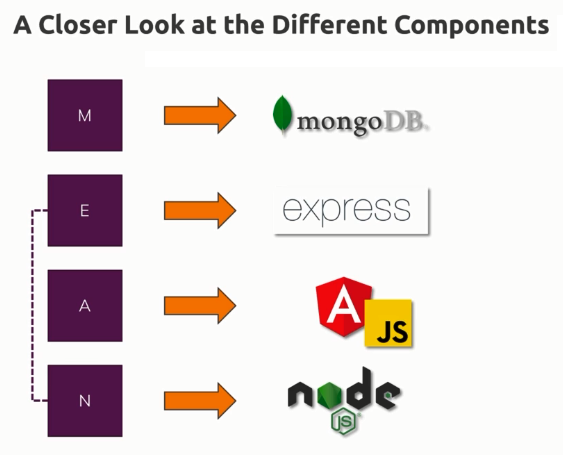
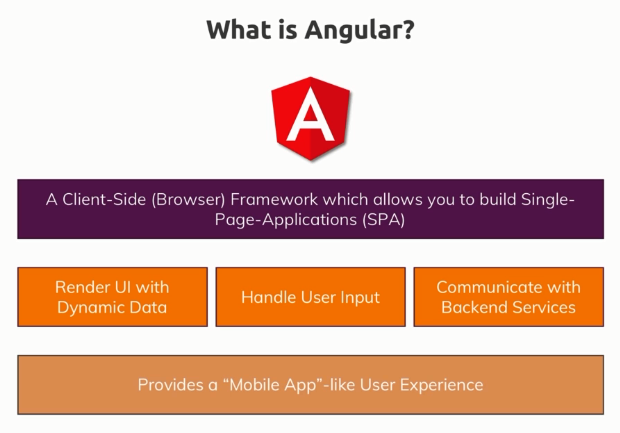
MEAN Stack

# Getting Started

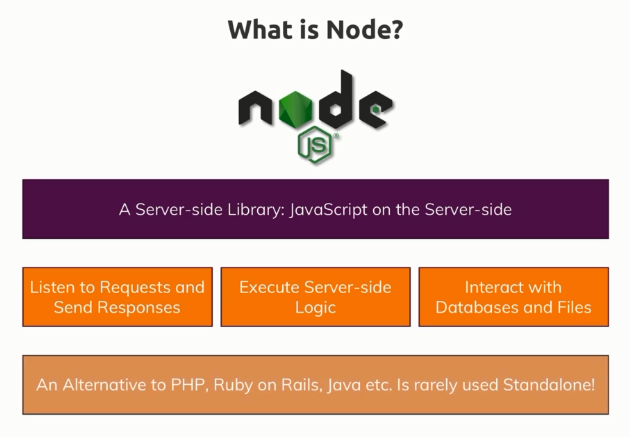
## What is MEAN



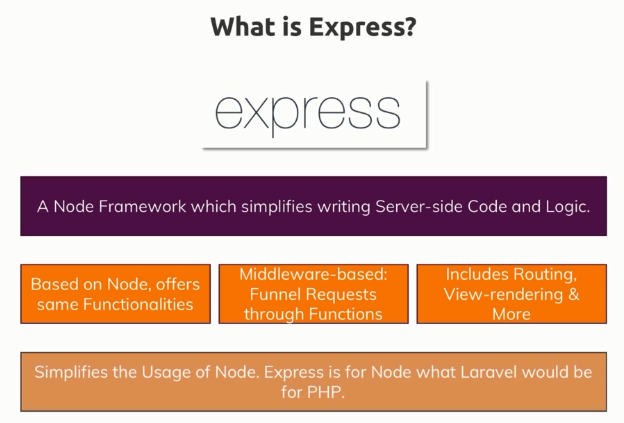
### Angular



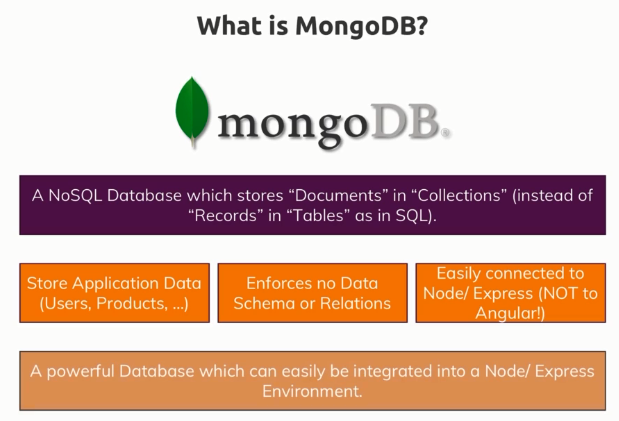
### Node.js



### Express

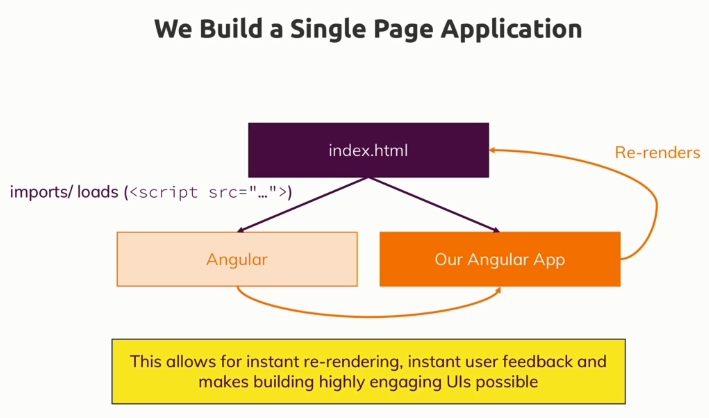


### MongoDB



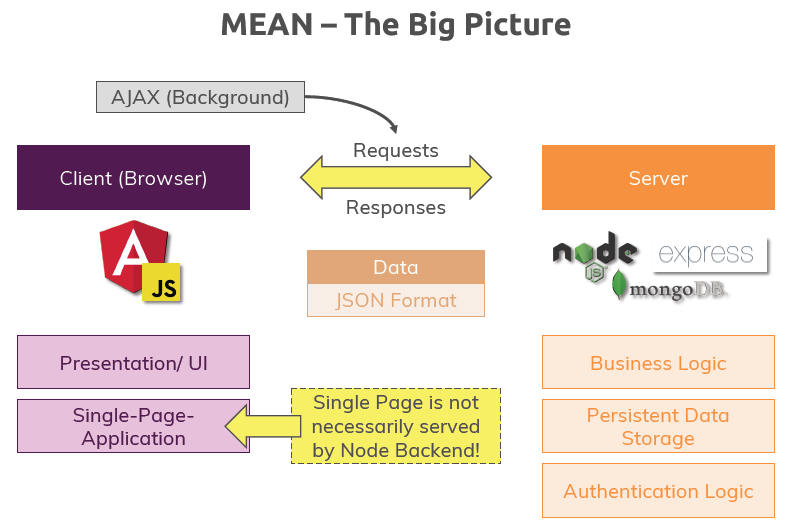
* You could theoretically replace MongoDB with a different database.
* You could use a SQL database in a Node/Express/Angular application too.
* D on the application and the type of data you are storing, if it's a data with a lot of relations, maybe a SQL database might be better.

## Single Page Application (SPA)



* In an Angular app, we'll have one root HTML file, a so-called index.html file and we will serve that from our Node server or from a different server. And this HTML page basically includes some script imports that houses our Angular app, so the Angular framework and our own code and we use this application to dynamically re-render what the user sees, without ever requesting a second page to be rendered by the server.
* Because by having this pattern, we never need to reload the page.
* This provides a highly-interactive, mobile-app-like feeling, a very responsive and fast web page where we never have to wait, where things always happen and that of course is a great user experience.

## MEAN – The Big Picture



* We exchange requests and responses and these requests and responses are sent behind the scenes, so-called AJAX requests. We use exactly the same pattern in Angular.
* These are requests which can be sent without us needing to reload the page which is of course exactly what we want.
* The type of data we exchange is not HTML because we never want HTML code, we do all that presentation and re-rendering logic with Angular. Instead what we get is so-called JSON data, that's a data format that's really efficient for encoding data like a list of posts.

# Tips and Tricks

* In Angular project, double-clicking on the index.html file won't work because that will use the file protocol and not the HTTP protocol and therefore many features we need are not enabled.