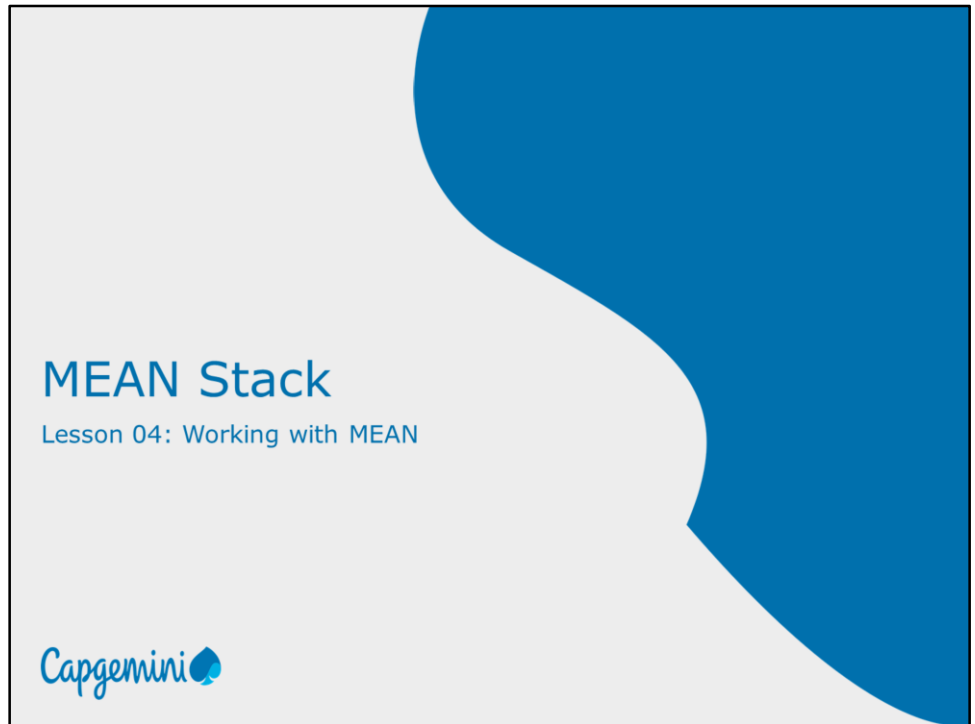


Instructor Notes:

Add instructor notes here.



Instructor Notes:

Add instructor notes here.

Lesson Objectives



Creating MEAN Application



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4.1 :MEAN
Introduction




MEAN is a free and open-source JavaScript software stack for building dynamic web sites and web applications

The MEAN stack is


- MongoDB
- Express.js
- Angular
- Node.js.




Mongo DB
(database system)



Express
(back-end web framework)



Angular.js
(front-end framework)



Node.js
(back-end runtime environment)

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4.1 : MEAN Introduction



The components of the MEAN stack are as follows:

MongoDB, a NoSQL database

Express.js, a web application framework that runs on Node.js

Angular.js or Angular, JavaScript MVC frameworks that run in browser JavaScript engines

Node.js, an execution environment for event-driven server-side and networking applications

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[Node.js](#) is a server side JavaScript execution environment. It's a platform built on Google Chrome's V8 JavaScript runtime. It helps in building highly scalable and concurrent applications rapidly.

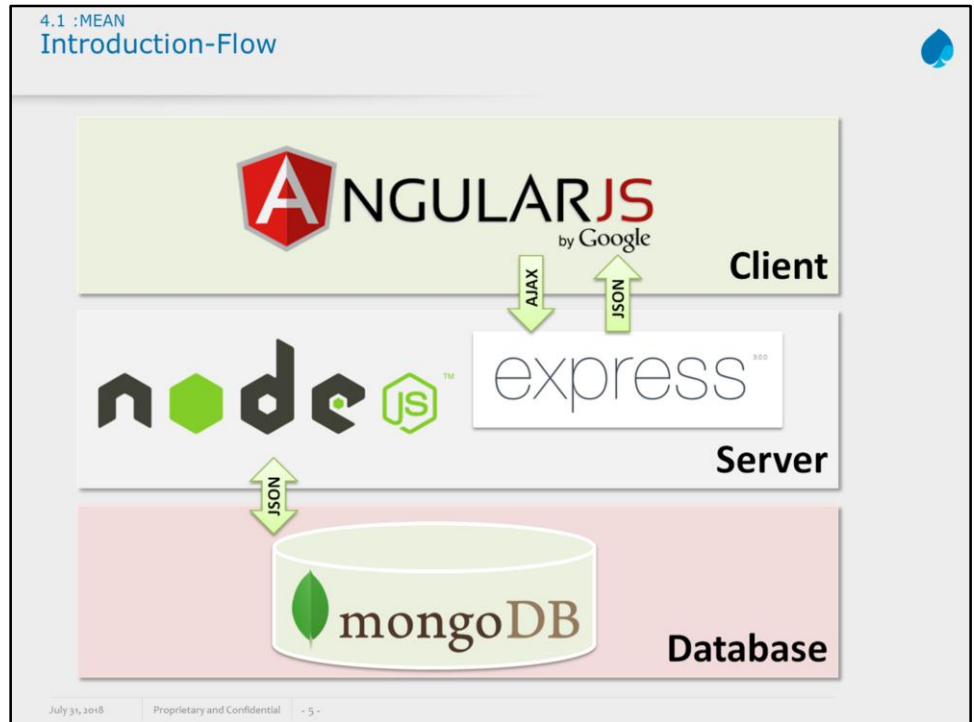
[Express](#) is lightweight framework used to build web applications in Node. It provides a number of robust features for building single and multi page web application. Express is inspired by the popular Ruby framework, [Sinatra](#).

[MongoDB](#) is a schemaless NoSQL database system. MongoDB saves data in binary JSON format which makes it easier to pass data between client and server.

[AngularJS](#) is a JavaScript framework developed by Google. It provides some awesome features like the two-way data binding. It's a complete solution for rapid and awesome front end development.

Instructor Notes:

Add instructor notes here.

**MongoDB is built for the cloud**

If your Web app plans include making good on the pennies-per-CPU promise of the cloud, the MEAN stack offers a compelling database layer in MongoDB. This modern database comes equipped with automatic sharding and full cluster support, right out of the box. Plug in MongoDB and it spreads across your cluster of servers to offer failover support and automatic replication. Given the ease with which apps can be developed, tested, and hosted in the cloud, there's little reason not to consider MongoDB for your next project.

Node.js simplifies the server layer

Navigating the various layers of the LAMP stack can be a difficult dance of many hats, one that has you shuffling through various config files with differing syntax. MEAN simplifies this through use of Node.js.

Want to change how your app routes requests? Sprinkle in some JavaScript and let Node.js do the rest. Want to change the logic used to answer queries? Use JavaScript there as well. If you want to rewrite URLs or construct an odd mapping, it's also in JavaScript. The MEAN stack's reliance on Node.js put this kind of pipework all in one place, all in one language, all in one pile of logic. You don't need to reread the man pages for PHP, Apache, and whatever else you add to the stack. While the LAMP generation has different config files for everything, Node.js avoids that issue altogether. Having everything in one layer means less confusion and less chance of strange bugs created by weird interactions between multiple layers.

Instructor Notes:

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4.1 :MEAN
Introduction

Name	Date modified	Type	Size
.git	5/13/2018 7:22 PM	File folder	
dist	5/13/2018 7:22 PM	File folder	
e2e	5/13/2018 7:22 PM	File folder	
node_modules	5/13/2018 7:29 PM	File folder	
server	5/13/2018 7:29 PM	File folder	
src	5/13/2018 7:29 PM	File folder	
.angular-cli.json	5/2/2018 11:53 PM	JSON File	2 KB
.editorconfig	5/2/2018 11:53 PM	EDITORCONFIG File	1 KB
	5/2/2018 11:53 PM	Text Document	1 KB
karma.conf	5/2/2018 11:53 PM	JavaScript File	1 KB
package.json	5/7/2018 6:25 PM	JSON File	2 KB
package-lock.json	5/7/2018 6:25 PM	JSON File	459 KB
protractor.conf	5/2/2018 11:53 PM	JavaScript File	1 KB
README.md	5/2/2018 11:53 PM	MD File	2 KB
server	5/5/2018 8:50 PM	JavaScript File	1 KB
tsconfig.json	5/2/2018 11:53 PM	JSON File	1 KB
tslint.json	5/2/2018 11:53 PM	JSON File	3 KB

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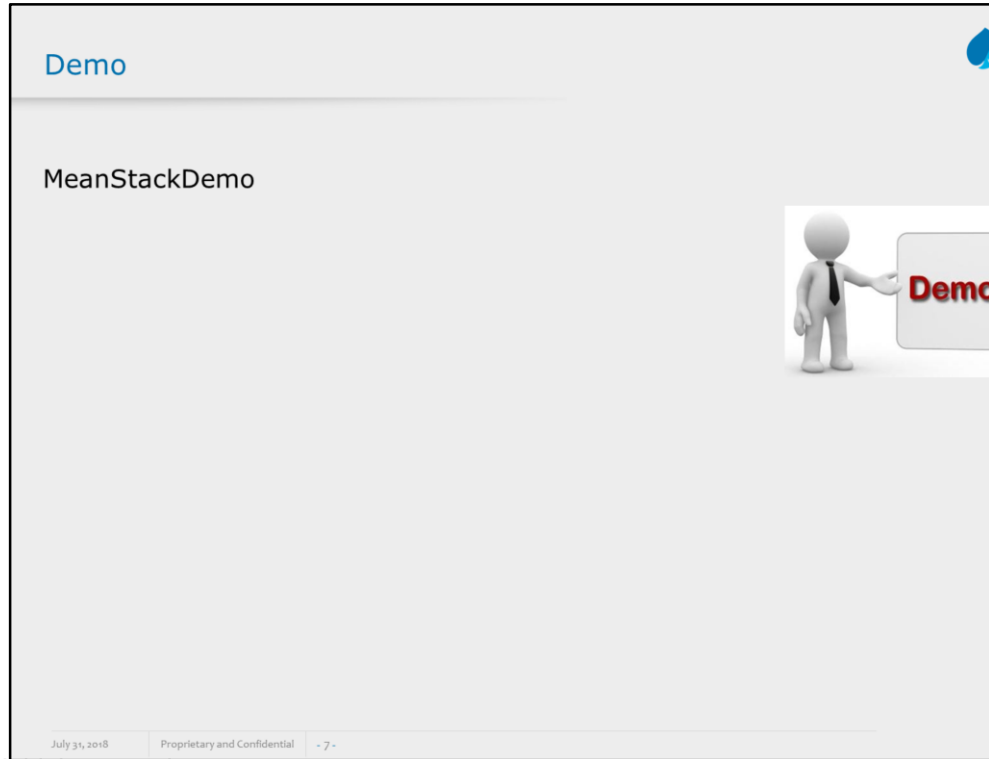
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