

MEAN Stack Syllabus

MEAN Stack

1. Overview
2. Architecture
3. Need
4. Advantages
5. Disadvantages
6. When to Use
7. When Not to Use
8. Building blocks
9. What Is MongoDB?
10. What Is Express?
11. What Is Angular.js?
12. What Is Node.js?
13. Setting Up things
14. How it all fits in
15. Deployments

MongoDB

1. Structure
2. Working with MongoDB
3. Shell Commands
4. Native Commands

5. Models
6. Mongoose

Express

1. Installing and Setting Up things
2. Build a Web Application with Express
3. Authentication
4. Authenticate and Authorize Your Users with Passport
5. Communicate in Real-Time with Socket.IO

Node.JS

1. Overview
2. Setting up things
3. Building Blocks
4. Npm
5. Using third party packages
6. Working with Node.js

Angular.JS

1.Introduction to AngularJS

What does AngularJS do for me?
 When to use AngularJS
 When not to use AngularJS

2.First AngularJS application

A basic application
 Two-way data binding
 Directives
 Model, View, Controller from the AngularJS Perspective

3.Single Page Applications

4.Controllers

What do we mean by Single Page Application?
 Creating Angular Modules
 Using Angular's Routing Service
 Routing Basics
 Accessing URL Data
 Using the \$location Service
 Creating a Skeleton Single Page Application

Where Controllers fit in, and what they do, from Angular's perspective
 Managing Scope
 Setting up Behavior
 Building a basic controller
 A more advanced controller
 ControllerAs

5.Models

How to create a model
 Explicit models
 Implicit models

6.Views

Angular's take on the View: a little bit different
 Tying a View to a Controller
 Tying a View to a model

7.Expressions

Expressions are lightweight code snippets
 Expression capabilities
 Limitations
 The border between expressions and \$eval

8.Filters

Standard filters
 Writing your own filter
 Tying filters together
 Custom Filters

9.Scopes

What are scopes?
 What do scopes provide?
 Scope lifecycle
 Scopes as glue between controller and view
 Scope hierarchies
 Scope and events

10.Angular Forms

Angular forms vs HTML forms
 Angular form controls
 Form events
 The form controller
 Form validation

11.Ajax, Data, and Angular

High level interactions with servers
 Low-level server interactions with \$http
 The deferred/promises API
 Making RESTful Service calls with

12.Directives

Teaching HTML new tricks
 Binding text and attributes
 Directive processing lifecycle
 DOM Processing

\$resource

Compilation

Linking

A basic directive

Directives and scopes

Creating reusable directives

13. Angular UI

UI Grid

Introduction to Angular Bootstrap

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