MEAN - STACK Training Plan

Content

Theory

HTML/CSS

Javascript

MVC Architecture

Client/Server

What is a Single Page Application?

Weekly Plan

Week 1 : HTML / CSS / Basic

* What is HTML?
* HTML5 Structure.
* What is CSS and why is it used for?
* How to define CSS explains the types of CSS.
* CSS properties
* CSS Selectors and Syntax
* CSS units
* HTML Tags: get the overview of all following TAGS with its default CSS properties and attributes.
* **<meta>**
* **<link>**
* **<style>**
* **<html>**
* **<body>**
* **<script>**
* **<div>**
* **<img>**
* **<a>**
* **<span>**
* **<small>**
* **<strong>**
* **Heading tags h1-h6**
* **<p>**
* **Listing Tags**
* **Table Structure and all tags used to make Table**.
* <iframe>
* <form>, <fieldset> and <legend>
* <input> with its all types, <textarea>, <select>, <option>
* <button> and it types
* <label>
* <hr>
* <br>
* <sub>
* <sup>
* All global attributes used in HTML.
* 3 layout design Based on HTML and CSS.

Week 2: Javascript / Jquery

Javascript topics

* Applying JavaScript (internal, external)
* Understanding JS Syntax
* Introduction to Document and Window Object
* Variables
* Operators
* Data Types,
* Num Type Conversion
* Math
* String Manipulation
* Objects
* Arrays
* Date and Time
* Conditional Statements
* Switch Case
* Looping in JS
* Functions
* Callback
* Promises

jQuery topics

* jQuery Syntax
* Selectors
* Events
* jQuery Effects ( Hide/Show ,Fade ,Slide, Animate, stop(), Callback , Chaining
* jQuery HTML (get element, set element, add element, remove element, CSS Classes add or remove, CSS() Methods)
* jQuery Traversing Methods ( Traversing, Ancestors, Descendants, Siblings, Filtering )
* AJAX Intro, Load() method , Get / Post ( Using <https://www.mockaroo.com/> )

Week 3 / 4: Angular + Ionic

* **Angular**
* What is Angular? What can be done with Angular?
* Advantages, Disadvantages, Features
* Application Overview
* Angular CLI and Commands
* ng --version
* ng --help
* ng new my-app-name
* ng generate [component | directive | pipe | service | class | interface | enum | guard]
* ng build
* ng serve
* ng lint
* ng test
* Project Files
* Tslint
* tsconfig
* Protractor
* Components & Modules
* Import
* Decorator
* Class
* Services and Http
* Observables & Subscribe
* Pipe
* ngIf and For with JSON array
* Error Handling
* Routers
* Auth-guard
* Interceptor
* Data-binding
* Animation
* Angular-material
* Iframe integration
* Social Media login / Signup
* Firebase push notification integration
* **Ionic**
* Basics of Ionic
* Installing IONIC
* Creating the first IONIC application
* Understanding the Project Structure
* IONIC Command Line Interface
* Packaging for Android and IOS
* Modules, Pages, Providers
* Ionic UI Components
* Native Components
* Ionic theming

Programs

* [Notes](https://docs.google.com/document/d/1JKdOakjShPlcz6MqMDEwk3axuh607wpyc3qHkp8oZVM/edit?usp=sharing)
* [Kanban Items](https://docs.google.com/document/d/1_iWwumNb8XTzYDnmDB3s8Itg3fo-PeOYdjfJbucHpoo/edit?usp=sharing)
* [Chuck Noris Joke on Demand](https://docs.google.com/document/d/17m3rhPJ_Y1LHJwqwJT-bqzVCDmG25U3acqts0uAGGOU/edit?usp=sharing)
* [Song Browser and Player - Spotify](https://docs.google.com/document/d/1D3XgJ1avKBzDFknqVjT1T89j6jK6mizKWMmrX1P6Rk0/edit?usp=sharing)
* [Employee CRUD with Mockaroo](https://docs.google.com/document/d/1BW8tslawdpWBlmuFGBGCCO5PNfz6tDI8PBN-4Ta9QEg/edit?usp=sharing)

Week 5 / 6: Node Js + MongoDB

NodeJS

* What is Node JS?
* Features of NODEJS
* Architecture
* Npm
* Node Modules
* Core Modules
* Http
* Url
* Querystring
* Path
* Fs
* Util
* Local Modules
* External
* Routing
* Request/Response
* GET
* POST
* PUT
* Delete
* File Upload
* Single
* Multiple
* Session (JWT Token)
* MiddleWare
* MVC
* DAO File

Mongo

* Connection
* Collection
* Insert
* Select
* Query
* Sorting
* Schemas
* SchemaTypes
* Connections
* Models
* Documents
* Subdocuments
* Queries
* Validation
* Middleware
* Populate
* Aggregate

Programs

* [File Browser](https://docs.google.com/document/d/1cOp6QywZRVCqir0g60Lr2k6AHCyIpLdOSej6hEGxVZA/edit?usp=sharing)
* [User Registration and Login + Session](https://docs.google.com/document/d/1QZWW2WBiUZtzZ4QNT80XzPOdregxT3dQe78m9hE0nZk/edit?usp=sharing)

Week 7 / 8: MEAN stack project

Week 9 / 10: MEAN stack project

Week 11/ 12: MEAN stack project

**Note:** *Your code will be updated on the Heroku server.*