Call us: 1800 120 5383 020 65003366 / 8308103366

MEAN Stack

Duration: 2 Months(8 Weeks or Weekends)

Prerequisites

Knowledge of Basic Web Designing

Mongo DB

1. Design Goals, Architecture and Installation

- What is need for Non RDBMS
- Benefits of using Document based databases

2. CRUD Operations

- Understanding of CRUD Operations
- Functional usage of CRUD
- Read / Write Operations with CRUD

3. Schema Design and Data Modelling

- Schema Design and
- Data Modelling in MongoDB®
- Various Data Structure and
- Tools to Manage Data Model in MongoDB

NodeJS and ExpressJS

. Introduction to Node JS

- Introduction
- Foundation
- Introduction to the Node JS framework
- Installing NodeJS
- Using NodeJS to execute scripts
- The Node Package Manager
- The package ison configuration file
- Global vs local package installation
- Automating tasks with Gulp
- The HTTP protocol
- Building an HTTP server
- Rendering a response
- Using Representational State Transfer
- Express Framework
- Connecting to Mongo databases
- Performing CRUD operations
- The NodeJS framework
- Installing NodeJS
- Using NodeJS to execute scripts

2. NodeJS Projects

- The Node Package Manager
- NodeJS Creating a project
- The package ison configuration file
- Global vs local package installation
- Automating tasks with Gulp.

3. HTTP

- The HTTP protocol
- Building an HTTP server
- Rendering a response
- Processing query strings
- NodeJS using Representational State Transfer
- Configuring TLS

4. Express JS

- An Introduction to Express JS
- Routing
 - Setting Up Router
 - Route Parameter and queries
- HTTP Interaction
- Handling Form Data
- Handling Query Parameters
- Error Handling
- Creating and Consuming RESTful Services
- Using Templates
- The model-view-controller pattern
- Defining Jade and Handlebars templates
- Building a front-end controller
- Defining routes
- Creating actions
- Configuring Express to use Handlebars
- Using REST
- Reading POST data
- Building Handlebars helpers
- Adding middleware
- Data Sources
- How Node.JS connects to databases
- RDBMS databases and NoSQL databases
- Connecting to RDBMS and NoSQL databases

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Angular JS

1. Angular JS Introduction

- What is Angular JS?
- Why we need Framework?
- Pre-requisite requirement

2. Introduction to MVS

Design pattern

3. Data Binding

- Two way binding with Model and view
- Two way binding with view and Model

4. Controllers

- Understanding controller
- Setting up initial state of a \$scope object
- Adding behavior to a Scope object
- Associating controller with Angular scope object
 - Explicitly using angular module controller function
 - Implicitly using ng-controller or \$route
- Scope inheritance

5. Service

- What is angular service?
- Usage of service

Hands on Experience on Live Project

- CRUD Operation with mlab
- **& E-commerce Website**

6. Scopes

7. Dependency Injection

8. Filters

- Angular JS build in filter
- Custom filter

9. Directives

- Angular JS build in directives
- Creating custom directive
- Isolated scope in directive
- Adding event listener

10. Module

- What is a module
- Module loading and dependencies

11. Providers

- Value recipe
- Factory recipe
- Service recipe
- Constant recipe
- Provider recipe

12. Routing

13. Basics of Security in AngularJS