Kaushalya Technical Training and Consultancy Services
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Fullstack Web Development
using
Java Script frameworks
Mongo,Express,Angular,Node (MEAN)

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Course Details:

Name	Fullstack web development using Java Script frameworks – MEAN
Course Duration	80 hours

Fullstack web development using Javascript has become the hot skill in the industry. It is essential for the graduates and professionals to learn and master these skills. One has to be well versed with front end,middleware and database programming to become a full stack web developer.

MEAN is a free and open-source JavaScript software stack for building dynamic web sites and web applications.MEAN is the powerful and most sought after course in the industry. Mastering javascript programming is essential for this course to develop front and backend programming.

Objectives of Training

- Provide minds-on and hands-on training
- Understand Javascript and its applications
- Learn rapid web application development using HTML/CSS/JavaScript/JQuery/AJAX and Bootstrap
- Learn how Node.js changed the javascript as a server-side programming
- Learn building RESTful Webservices using Node and Express
- Learn database programming using Mongo
- Learn front end development using Angular
- Build sample project using MEAN

Outcome of Training
- Trainees should be able to independently develop sample web application
- End to end (Full stack) application development
- Trainees can develop web application or back end application for their projects/internships
- Training on MEAN should enable trainees to solve objective and programming type questions. This would help them to prepare for placements/switch career.

Syllabus

Module	Topics

Modules 1 – Basics of Web Application Development	✓ Introduction to web design and application development
	✓ Installation of Sublime text
	✓ Basics of HTML programming
	   o HTML Elements
	   o HTML Forms
	✓ Basics of CSS programming
	   o Style attributes – Color,Font,Image,etc
	   o Internal, Inline and external styling
	   o Introduction to responsive web design
	✓ Basics of Java script programming
	   o Building blocks – variables,operators,conditional statements, loops
	✓ Basics of Bootstrap
	✓ Basics of AJAX
	✓ Sample programs and assignment

Module 2 – Node.jsand Express.js	✓ Introduction to Node ✓ What,Why and How of Node ✓ Node Projects ✓ Working with shrink-wrap to lock the node modules versions ✓ Working with asynchronous programming ✓ Building a HTTP Server with Node.JS using HTTP APIs ✓ File System ✓ Buffers, Streams, and Events ✓ Multi-Processing in NodeJS ✓ ExpressJS ✓ Express JS with MongoDB and Sqlite ✓ Socket.io, The Front-end, and A Chat App ✓ Introduction to Task Managers with unit testing
Module 3 – MongoDB	✓ Introduction to NoSQL databases ✓ MongoDB A Database for the Modern Web ✓ CRUD Operations in MongoDB ✓ Indexing and Aggregation ✓ Replication and Sharding ✓ Developing backend programming using Node, Express with MongoDB ✓ Assessment and feedback

Module 4 – Angular	✓ What is a SPA? ✓ What is Angular? ✓ Preparing for TypeScript ✓ Angular-4/6 new features ✓ Building with A4 Components ✓ Bootstrap Scaffolding ✓ Angular 4/6 Binding and Events ✓ Dependency Injection and services ✓ Directives ✓ Pipes ✓ Forms ✓ HTTP, Promises, and Observables ✓ Testing
Module 5 – Project	✓ Develop a project using MEAN ✓ Assessment