



**KODE IT**  
—SOLUTIONS—

# *KODEIT Training*

**KODE IT SOLUTIONS**  
**Industrial Training**

# **MERN Stack**

# **WEB DEVELOPEMENT**

**18th October 2021 to 18th December 2021**

Every Friday, Saturday & Sunday  
(Friday, Saturday - 4:00 p.m. to 6:00 p.m.)  
(Sunday - 2:00 p.m. to 4:00 p.m.)



# KODE IT Solutions

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- **Kode IT Solutions is a leading software development team with having experience working on different packages for a variety of businesses.**
- **Whether you are after a simple software for collection results or a complex one for statistical analysis, we have you covered.**
- **We are a team of professional, energetic individuals with talented designers and developers to guide our clients through flawless and timely execution of any project we work on.**
- **We are the thought-leaders in the domain of professional IT services in implementing world-class infrastructure and technology.**

# SYLLABUS

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## PRE - REQUISITES:

### 1) Working with HTML5

- HTML Introduction and History
- Working with HTML Elements
- Adding Attributes to HTML Element
- Working with Input Elements
- Working with Forms
- Working with Lists
- Working with HTML Tables
- Adding Styles to HTML Elements

### 2) Introduction to HTML5

- Introduction to HTML5 Doctype
- HTML5 New Elements
- Working with HTML5 Geolocator APIs
- Working with Local and Session Storage
- HTML5 Audio and Video Tag

### 3] Working with Application Styling

- Working with Classes for Styling
- Attaching Styling to Element Id
- CSS Box Model
- Working with Flexbox
- Adding Animation to the Elements
- Working with “position”
- Introduction to “display” Property

### 4] Working with Bootstrap

- Introduction to Bootstrap
- Bootstrap Layout Model
- Working with Bootstrap Components
- Working with Bootstrap Utilities

### 5] Introduction to JavaScript

- Creating Variables in JavaScript
- Creating Functions in JavaScript
- Returning Data from Functions
- Working with Conditions
- Looping in JavaScript
- JavaScript Execution Model
- Understanding “false” and “falsy” Values
- Block Scope Variables
- Function Definition vs Declarations

## 6] Working with Objects

- Creating Object using Object Literals
- Working with Module Pattern
- Working with IIFEs
- Creating Singleton Objects
- Creating Objects with Prototype Pattern

## 7] Manipulating DOM Elements with JavaScript

- Accessing DOM Elements using “tag” name
- Accessing DOM element using “classes”
- Accessing Elements using “id”
- Manipulating DOM Elements
- Updating DOM styling with JavaScript

## 8] Working with Modern JavaScript

- Working with ES6
- Variable and Block Scope
- Arrow Functions
- Object Literals
- Rest and Spread Operators
- Template String
- Working with Classes
- Promises in ES6
- Working with Async and Await

# MERN STACK

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## 1) INTRODUCTIONS

- What is MERN Stack
- Course Structure
- Node Installation

## 2) ES6 BRUSH UP

- Let Keyword
- Const Keyword
- Arrow Functions
- For Of loop
- Template Literals
- Spread Operator

## 3) REACT-INTRO

- What is React
- What is Component
- JSX Overview

## 4) FIRST REACT APP

- Helloworld App in React
- Project Structure of React-App
- Debugung React App

## 5] COMPONENTS

- Components Introduction
- Class Components
- Functional Components
- Parent , Child Components
- What is state
- setState Method
- Props in Class Components
- Props in Functional Components

## 6] EVENT HANDLING IN REACT

- Event Handling in Class Components
- Event Handling in Functional Components

## 7] CSS IN REACT

- Inline CSS
- Local CSS
- Manipulating CSS using Events

## 8] PROJECT- COUNTER APP

- Counter App

## 9] LIFECYCLE

- Class Component Life Cycle Methods

## 10] REACT HOOKS

- What is a React Hook
- useState Hook
- useEffect Hook
- Manipulating CSS using Hooks

## 11] REACT FORMS WITH HOOKS

- Forms Introduction
- Forms Submission

## 12] PROJECT - USER AUTHENTICATION

## 13] PROJECT - TODO LIST

## 14] REACT ROUTER

## 15] MAPS IN REACT

## 16] HTTP METHODS

- Fetch Method
- Axios Method
- Return HTML Content using HTTP Methods



## 17] PROJECT - HOTEL APP

## 18] NODE JS

- Hello World in Node JS
- Hello World On Screen
- Creating Multiple Routes

## 19] NODE JS MODULES

- What is Node JS Module
- Local Modules
- NPM
- Installing first NPM Module - Nodemon

## 20] CREATING REST API

- Postman - GET Method
- Postman - POST Method

## 21] EXPRESS ROUTER

## 22] MONGODB

- What is Mongo DB
- Installing Mongo DB
- Mongo DB Insert
- Mongo DB Update and Delete

## 23] MONGODB WITH NODEJS

- Connecting Node JS with Mongo DB
- Node-Mongo Create , Read Operations
- Node-Mongo Delete and Update Operations

## 24] MERN HelloWorld

- Connecting React and Node
- Helloworld in MERN

## 25] MERN AUTHENTICATION

- Creating Front-End
- Applying Styles
- User Registration
- User Login
- Getting Users List

