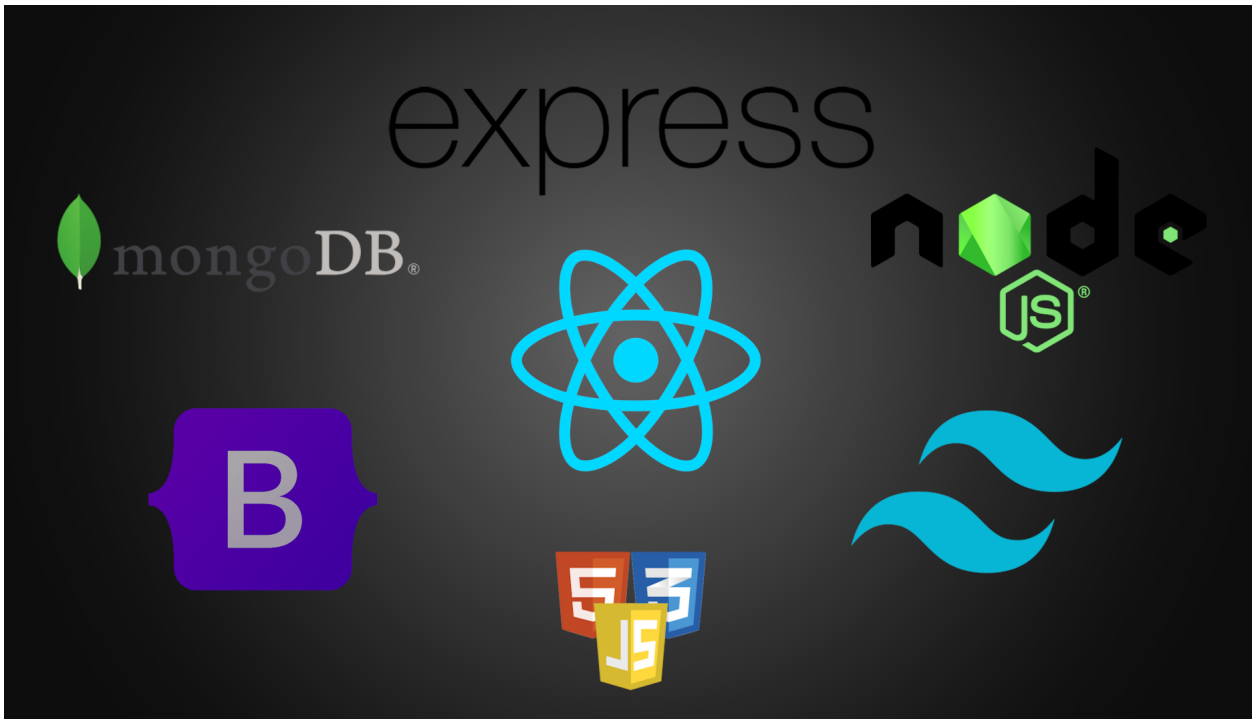
SYNNEFO SOLUTIONS
Delivering Experience

FULL-STACK WEB DEVELOPMENT - MERN



Start with Us

Master MERN Stack development with our immersive hands-on training, equipping you to build dynamic web applications using MongoDB, Express.js, React, and Node.js. Start your journey today and unlock the full potential of this cutting-edge technology stack. .

INTRODUCTION (Day 1)

Day 1

- What is full-stack web development?
- What is a website / web application?
- How does a web site / web application work?
- History

VCS (Day 2)

Day 2

- What is a Version Control System (VCS)
- Introduction to Git and GItHub
- Installing Git
- Configuring Git
- Basic Git commands
- Managing a git repository

HTML (Day 3 - 8)

Day 3

- HTML introduction
- HTML page structure

Day 4

- HTML tags
- HTML5
- Comments

Day 5

- List
- Image
- Link

Day 6

- Form

Day 7

- Table
- Iframe
- Video

Day 8

- HTML div

CSS (Day 9 - 15)

Day 9

- CSS introduction
- Selectors
- Inline vs Internal vs External Styling
- CSS Properties

Day 10

- Background, borders, margins and padding
- Font styling
- Font awesome / google font

Day 11

- Pseudo-elements and pseudo-classes
- Tool tips

Day 12

- Transitions, Transformation, Animations

Day 13

- Box sizing
- Flex

Day 14

- Grid
- Creating a page design

Day 15

- Mini project 1

BOOTSTRAP (Day 16 - 20)

Day 16

- Bootstrap introduction
- Containers / container-fluid

Day 17

- Table
- Form

Day 18

- Colors
- Alerts and buttons
- Spinners and cards

Day 19

- Pagination and drop down
- Carousel

Day 20

- Mini project 2

JAVASCRIPT (Day 21 - 44)

Day 21

- JavaScript introduction
- Variable, scoping and data types

Day 22

- Strings and numbers
- Comments
- Operators

Day 23

- Conditional statements

Day 24

- Loops
- Break and continue

Day 25

- Arrays
- Stacks

Day 26

- Objects
- Maps

Day 27

- Regular expression

Day 28

- Hashing

Day 29

- Set timeout,setInterval,clear interval

Day 30

- Working with DOM

Day 31

- Developers tools in Browsers

Day 32

- Call back function

Day 33

- Promise

Day 34

- Async and await

Day 35

- JQuery

Day 36

- Prototypes

Day 37

- Closures
- Local Storage

Day 38

- Ajax

Day 39 - 41

- Advanced javascript (ES6, ES7 & ES8)

Day 42 - 43

- OOP concepts

Day 44

- Mini project 3

DATABASE (Day 45 - 50)

Day 45

- Introduction
- SQL vs NoSQL
- SQL familiarization
- CRUD operations

Day 46

- Introduction to MongoDB
- Installing MongoDB
- Creating database and create collection
- Connecting MongoDB

Day 47

- Data modeling

- Creating and retrieving data

Day 48

- Updating and deleting data
- Limit, sort and indexing

Day 49

- Data Types
- Aggregation

Day 50

- Database replication and sharing
- Drop database and drop collection
- MongoDB with ExpressJS

NODEJS (Day 51 - 62)

Day 51

- NodeJS introduction
- Install NodeJS
- Node Package Manager (NPM)

Day 52

- Create NodeJS app
- Simple server using NodeJS

Day 53

- Request and Response

Day 54

- Response types - JSON,HTML and XML

Day 55

- Emitter

Day 56

- Buffers

Day 57

- Streams

Day 58

- File system
- Global objects

Day 59 - 60

- Utility modules

Day 61

- Web modules
- Rest API

Day 62

- Scaling a NodeJS application
- Packaging

EXPRESSJS (Day 63 - 74)

Day 63

- ExpressJs introduction
- Install ExpressJS
- Creating express server

Day 64

- Routing
- HTTP methods

Day 65

- HTTP response codes
- Express params and Query strings

Day 66

- Middle wares
- Templates

Day 67

- Static files
- Form data

Day 68

- Express with Database

Day 69

- Cookies
- Sessions

Day 70 - 71

- Authentication
- JWT token, Passport.js

Day 72

- Creating rest API

Day 73

- Scaffolding
- Debugging

Day 74

- Mini project 4

REACTJS (Day 75 - 92)

Day 75

- React introduction
- Installing React
- Creating react application
- Understanding basics of React app

Day 76

- JSX

Day 77

- React components
- Class components vs function components

Day 78

- Understanding virtual DOM and single page apps
- React lifecycle

Day 79

- States and props

- Conditional rendering

Day 80

- Event handling

Day 81

- Forms
- Controlled vs Uncontrolled components

Day 82

- Formik

Day 83

- Routes

Day 84

- Pure components
- High order components

Day 85 - 87

- Redux

Day 88

- Babel and webpack

Day 89 - 91

- Axios

Day 92

- Server side rendering

TAILWIND (Day 93 - 99)

Day 93

- Tailwind introduction
- Why Tailwind?
- Layout

Day 94

- Flexbox and grid
- Alignment, pacing and sizing

Day 95

- Typography
- Backgrounds
- Borders
- Effects
- Filters

Day 96

- Tables

Day 97

- Transitions and Animation
- Transforms

Day 98

- Interactivity

Day 99

- Mini Project 5

DEPLOYMENT (Day 100 - 105)

Day 100

- Building and file management
- Domain and subdomain
- Domain Name System

Day 101

- Security Protocols
- SSL

Day 102

- Firebase

Day 103

- Deploy using Railway and MongoDB Atlas
- Deploy using netlify

Day 104 - 105

- Deploy using AWS Ec2

PROJECTS (Day 105 - 144)

Day 106 - 124

- Portfolio website

Day 125 - 144

- E-commerce application