

# Delta : Full Stack Web Development

MERN Stack (Mongo, Express, React, Node)



*' Let not the fruit of action be your motive to action. Your concern is with action alone, not with the fruit of action. '*

**- The Bhagavad Gita**

# What's new?

Our experience tells us that students on average are **3 times** more serious in a paid batch. The completion of course and watch time of students increases exponentially.

## MERN

Full Stack Web Development

## Live

12+ Hours of Live Sessions

**500+**

videos. Classes on  
alternate days for next 4.5  
months

# Batch Overview

- ✓ Complete Frontend Development
- ✓ Complete Backend Development
- ✓ Complete Database (SQL & MongoDB)
- ✓ Complete MERN Stack (MongoDB, Express, React, Node)
- ✓ Real Life and Industry Grade Projects
- ✓ LIVE sessions on how to get a job, resume, freelance, open source & more

**500+**video  
lectures**12+**Hours of Live  
Sessions

**Duration :** 4.5 Months  
Course access is for Two Years

# Topics

## Frontend

CATEGORY	CHAPTERS	OVERVIEW
Introduction	What is Web? Client-Server Architecture Setting Developer Environment	Understanding how and who built the web  General architecture used by websites; requires & response  Setting our environment on our laptop/computer where we'll do coding
HTML	Structure Tags in HTML Block v/s Inline Tables Forms	How to create the structure of a web page  Learning about various tags in HTML like <h1>, <p>, <a>, <img> etc  Understand the difference between inline and block HTML elements  Learn to create tables in HTML  Learn about forms and form fields
Intro to CSS	Introduction	What is CSS & how to use it in HTML, different styles of writing
Selectors in CSS	Understanding Selectors Selector Specificity	Element, Class & Id selectors etc., combinators, pseudo classes, pseudo elements, specificity in CSS  Understanding the specificity & priority of CSS selectors

CATEGORY	CHAPTERS	OVERVIEW
Styling with CSS	Box Model	Understanding the CSS box model
	CSS Units	Learning about various CSS units used to style HTML elements, absolute & relative
More CSS	CSS Transition	Understanding element transitions in CSS along with shorthand
	CSS Transforms	Understanding element transformations in CSS along with shorthand
Flexbox	Intro to Flex	Understanding flexbox layout, cross axis, main axis etc.
	Flex properties	flexbox direction, justify content, align items, align self, flexwrap, flex sizing,etc.
Responsive Designs	Media Queries	Learn about Media Queries & Viewport
	Animations & 3d Space	Basics of CSS animation and how to animate HTML elements using animate.css
Bootstrap	Frontend frameworks	What are frontend frameworks and how to use one
	Components	Using various bootstrap elements like Navbar, buttons, cards etc
	Layouts(Grid system)	Learning about grid system of bootstrap
Tailwind CSS	What is Tailwind?	Understanding Tailwind as a Framework

CATEGORY	CHAPTERS	OVERVIEW
Tailwind CSS	Components Creating Responsive Designs	Covering button, navbar, fonts, margin, padding etc. Understanding responsiveness in tailwind, @apply, @layer etc.
Major Project	CSS Major Project	Focus on using concepts we have learn to build our project
Starting with Javascript	Intro to JS Variables, operators, conditional, loops	What is JS and use of JS Learning the basics of the language
Functions and Arrays in JS	Scope Hoisting Functions expressions v/s Function declaration Arrays and its usage	Understanding scope in JS What is hoisting and its application Difference between function expression and declaration What are arrays and using array functions like splice, slice etc.
Objects and Timing Events	Intro to Objects Object functions	What are objects, how to create them and using different notations to access object's data Learn to iterate over objects, delete object properties, creating nested objects
Understanding DOM	DOM	Understanding DOM, what it is, how to access elements from the DOM

CATEGORY	CHAPTERS	OVERVIEW
Understanding DOM	Events	How to manipulate DOM events in JS
Closures	IIFE	What are immediately invoked function expressions
	Closures	What are closures and its application
	Arrow functions	Learning about arrow functions and bindings in arrow functions
Constructors and Prototypes	“this” keyword	How does the “this” keyword works in JS
	Prototypes	Discussing what are prototypes in JS, why do we use them and its application
	Class	Learning about using classes in JS and how to deal with class inheritance in JS
Ashynchronous JavaScript	Promises, Callback	What are promises and callbacks in Javascript, Why to use
	Timed Events	What is setTimeout, Event loops in javascript
	Async Await	What are Async Await in Javascript, Why that is important
jQuery	Intro to jQuery	What is jQuery and what is the need for it
	Event handling in jQuery	Handling various JS events with jQuery and exploring the library
Ajax	Intro to AJAX	What are async requests, what is API and JSON



CATEGORY	CHAPTERS	OVERVIEW
Ajax	Ajax requests with jQuery	Making ajax requests with jQuery and handling errors
Promises	Intro to promises	What is a promise, how do we use promises and chaining promises
Git	Intro to Git	What is git and why it's helpful
	Branches	Exploring branches in Git. How to create branches.
	Git workflow	Understanding push, commits, pull requests and using git for teams and individual
Terminal	Mastering Terminal	Directories, Commands, paths, operations on files etc.
Major Project	JS Major Project	Create something classic by using the concept learn in JS



CATEGORY	CHAPTERS	OVERVIEW
Node.js	Intro to Node	Introduction to the course, hello world with nodejs
	Setting up	Setting up tools and the project
Writing Our First Server	Intro to servers	What are servers and how one can use them
	Setting up node server	Beginning the project by setting up the very first node server
	nodemon	Introducing nodemon to monitor changes made to the server
Creating Express Apps	MVC	MVC architecture for our server
	Express	What are frameworks, using express with node
	Ejs	What are template engines, setting up and working with Ejs
	Middleware	What is a middleware and how to use one
Intro to Databases	Database	What are databases & why do we need them
	SQL	what is SQL, SQL queries etc.
MongoDb	MongoDB	What is MongoDB, how to use it and setting up MongoDB for the project
	DB operations	CRUD operations for MongoDB

## Backend

CATEGORY	CHAPTERS	OVERVIEW
MongoDb	Mongoose	Linking MongoDB using Mongoose
Mega Project	Working on our Mega Project	APIs, error handling, validation, express router, authentication, deployment & many more concepts to be covered

## React

CATEGORY	CHAPTERS	OVERVIEW
React	Components, Styling, Redux & more	What is React, installation, react components, styling in react, component lifecycle methods, react hooks, redux, redux toolkit etc.
Major Project	React Project	Using the concepts we have learnt to build our project

Lectures will be uploaded on **Alternate** Days

Till then, keep learning & keep exploring ❤️

Start Date : 31st August, 2023