Full Stack Web Development Course
MERN Stack

- **HTML**
  - HTML Editors
  - HTML Basic
  - HTML Elements
  - HTML Image
  - HTML Links
  - HTML Images
  - HTML List
  - HTML Attributes
  - HTML Headings
  - HTML Paragraphs
  - HTML Styles
  - HTML Formatting.
  - HTML Comment
  - HTML Block
  - HTML Classes
  - HTML ID
- **CSS**
  - CSS Syntax and Selectors

- CSS Colors
- CSS Backgrounds
- CSS Borders
- CSS (Cascading Style Sheet)
- Setting height and width
- Background Color
- Background Image
- Background Repeat
- Border
- Border Types
- Border Style
- Border Radius
- Text Indentation
- Text Transformation
- Letter Spacing
- Line Height
- Font Families
- Font Color
- Font Style
- Float and Clear
- Margin And Padding
- Text Alignment
- Text Decoration
- Word Spacing

We provide training for Web Development, C, C++, Java, Core Java, Digital Marketing, UX, UI, AWS, Python, ML, Laravel, React JS, Angular JS and Node JS.

- o   Text Shadow

- o   Position

- **CSS3**

  - o   CSS Rounded Corners

  - o   CSS Border Images

  - o   CSS Multiple Backgrounds

  - o   RGBA Colors

  - o   CSS Gradients

  - o   CSS Shadow Effects

  - o   CSS Text Effects

  - o   CSS 2D Transforms

  - o   CSS 3D Transforms

  - o   CSS Transitions

  - o   CSS Animations

  - o   CSS Styling Images

  - o   CSS Buttons

  - o   CSS Multiple Columns

  - o   Resize

  - o   CSS Box Sizing

  - o   Details Tag

  - o   Dialog Tag

- **HTML 5**

  - o   Introduction To HTML5

  - o   <!DOCTYPE html>

- o Header Tag
- o Footer Tag
- o Article Tag
- o Section Tag
- o   Figure Tag
- o   Aside Tag
- o Audio Tag
- o Video Tag
- o Details Tag
- o Dialog Tag
- o Main Tag
- o Nav Tag
- o Summary Tag

- **JavaScript**
  - o JavaScript Introduction
  - o JavaScript Basics
  - o JS Comment
  - o JS Variable
  - o JS Global Variable
  - o JS Data Types
  - o JS Operators
  - o JS If Statement
  - o JS Switch
  - o JS slider

- o   JS Loop
- o   JavaScript DOM
- o   JS Events
- o   onclick
- o   onmouseover
- o   onmouseout
- o   onkeydown
- o   onload
- o   JS validation
- o   JS window.print()

- **jQuery**

  - o   What is jQuery?
  - o   adding the jQuery Library to Your Pages
  - o   Basic jQuery Example
  - o   Downloading jQuery
  - o   jQuery Syntax
  - o   The Document Ready Function
  - o   How to use Custom Scripts?
  - o   How to use Selectors
  - o   jQuery – CSS Element Selector and ID Selector
  - o   jQuery–CSS Element Class Selector and Universal Selector
  - o   jQuery – CSS Multiple Elements E, F, G Selector
  - o   jQuery Callback Functions
  - o   Get Attribute Value

- Set Attribute Value

- Apply CSS Properties and Multiple CSS Properties

- Setting Element Width & Height

- JQuery CSS Methods

- JQuery Online Effects

- Slider

- Lightbox

- **Bootstrap**

  - What is Bootstrap?

  - Install Bootstrap and jQuery

  - Media Query

  - Bootstrap Grid System

  - Containers

  - Rows

  - Columns

  - Multiple columns

  - Resetting columns

  - Offsetting columns

  - Nesting columns

  - Push & Pull

  - Bootstrap Components

  - Glyphicons

  - Dropdown

  - Video

- o   Nav & Navbar

- o   Carousel

- o   Tabbing

- o   What is Media Query

- o   What is Responsive Web Design

- o   What screen resolutions do you use while taking screenshots

- **Tailwind CSS**

  - o   Getting Started

  - o   Core Concepts

  - o   Customization

  - o   Base Styles

  - o   Layout

  - o   Flexbox & Grid

  - o   Spacing

  - o   Sizing

  - o   Typography

  - o   Backgrounds

  - o   Borders

  - o   Effects

  - o   Filters

  - o   Transitions & Animation

  - o   Transforms

  - o   2 projects using Tailwind CSS

- **ReactJS**

- **Introduction**
  - Into to REACTJS course

- **Getting started with ReactJS**
  - How to use exercise files
  - What is React
  - Tools that we need

- **Working on the basics with ReactJS**
  - Finishing the hello world task
  - Delete and recreate everything
  - Adding CSS to our Hello World
  - Everything is in its own file
  - Reusable components

- **Create a react template**
  - Understand the existing template
  - Convert the HTML template into React App
  - Reusable Card and Assignment

- **Getting friendly with states**
  - What are props and states
  - Preparing the state-based applications
  - Complete counter application
  - Assignment for counter app

- **Building a Tic Tac Toe**
  - Your need to study first
  - Preparing the Tic Tac Toe

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- Sending icons from components

- Setup layout for tic tac toe

- Game is almost working

- Finishing tic tac toe and assignment

- ### Learn React Context API with projects

  - The problem that contextAPI solves

  - Detail on Context and Provider

  - Detail on Consumer in contextAPI

  - Understand the working of dark and light mode

  - Creating a theme Toggler with Context API

  - Finishing the theme switcher app

- ### App with Context API with reducers and actions

  - What are we building here

  - Create brain of the application

  - Use Reducer for our app

  - Add an input form

  - Sending a dispatch

  - Display the context data and dispatch

- ### Local storage and use Effect hooks

  - Introducing the Effect hook

  - A form to submit the data

  - Looping through all the values

  - Hooks and local storage in action

- ### Learn to handle API

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- Learn to read docs for API

- let's read Axios docs

- Drill down the API

- Extracting information from API

- **Designing a shopping cart API**

  - A walk through Pexels and JSON

  - Add item to the cart

  - Buy item and remove the item

  - Fetching photos from API

  - Store everything is state

  - Card for every product

  - Create cart section

  - Bring the shop together

  - Removing the duplicate

- **Firebase with GitHub App**

  - What we are about to build

  - React Router crash course

  - Your tour to configure firebase

  - Read firebase docs with me

  - Creating components for firebase app

  - Bring in the react router

  - Headers and Footers

  - Conditional rendering in Navbar

  - Adding firebase configuration

- User Signup in firebase

- Logout and sign in user

- User card component

- Repo component

- Home page and finish the app

- **Firebase real time database**

  - A challenge application

  - Firebase real-time database

  - Setting context and actions

  - Creating reducers for contact

  - Header and Footer tasks

  - How to upload image in firebase storage

  - Add and update contact in firebase

  - Add or update finder

  - Update star and delete contact

  - Use dispatch and FIXME

  - Get all data from firebase

  - Loop through firebase object

  - Firebase finale and assignment

- **Redux App**

  - 3 Principles of redux

  - Bring in the central state

  - Actions make redux simpler

  - Reducer - brain part of app

- Component dispatching the info

- 2 most important method for Redux

- Provider to give access of store

- Finally creating that store

- ○ **MongoDB**

  - What is mongoDB

  - How does mongoDB works

  - How to install mongoDB on MAC

  - How to install mongoDB on Windows

  - Create and Read operation in MongoDB

  - ObjectID and BSON in mongoDB

  - Triple A and CRUD operations in mongoDB

  - UpdateOne and DeleteOne in #mongoDB

  - UpdateMany and deleteMany in MongoDB

  - Database issues with Update in MongoDB

  - Getting more data in #mongodb

  - Save bandwidth while querying in MongoDB

  - Understanding objects structure in MongoDB

  - What is schema in MongoDB

  - Database modeling MongoDB series

  - Relation in database MongoDB

  - One-to-one relation in mongo database with id

  - One to many relation in mongo database

  - Many to Many relation in mongoDB

- Creating file structure and installing dependencies

- Creating our first student schema

- Connecting with mongodb with mongoose

- A read test in MongoDB

- A delete test for MongoDB

- An update test in MongoDB

- ## NodeJs

  - ### Introduction

    - What is Node.js?

    - Features of Node.js

    - Who Uses Node.js?

    - Concepts

    - Where to Use Node.js?

    - Where Not to Use Node.js?

  - ### Environment Setup

    - Try it Option Online

    - Local Environment Setup

    - Text Editor

    - The Node.js Runtime

    - Download Node.js Archive

    - Installation on UNIX/Linux/Mac OS X and SunOS

    - Installation on Windows

    - Verify Installation: Executing a File

- **First Application**
    - Creating Node.js Application

- **REPL Terminal**
    - Online REPL Terminal
    - REPL Commands
    - Stopping REPL

- **NPM**
    - Installing Modules using NPM
    - Global vs Local Installation
    - Using package.json
    - Attributes of Package.json
    - Uninstalling a Module
    - Updating a Module
    - Search a Module
    - Create a Module

- **Callback Concept**
    - What is Callback?
    - Blocking Code Example
    - Non-Blocking Code Example

- **Event Loop**
    - Event-Driven Programming
    - Example
    - How Node Applications Work?

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- o **Event Emitter**
  - Event Emitter Class
  - Methods
  - Class Methods
  - Events
  - Example
- o **Buffers**
  - Creating Buffers
  - Writing to Buffers
  - Reading from Buffers
  - Convert Buffer to JSON
  - Concatenate Buffers
  - Compare Buffers
  - Copy Buffer
  - Slice Buffer
  - Buffer Length
  - Methods Reference
  - Class Methods
- o **Streams**
  - What are Streams?
  - Reading from a Stream
  - Writing to a Stream
  - Piping the Streams
  - Chaining the Streams

- **File System**
  - Synchronous vs Asynchronous
  - Open a File
  - Get File Information
  - Writing a File
  - Reading a File
  - Closing a File
  - Truncate a File
  - Delete a File
  - Create a Directory
  - Read a Directory
  - Remove a Directory
  - Methods Reference
- **Global Objects**
  - __filename
  - __dirname
  - setTimeout(cb, ms)
  - clearTimeout (t)
  - setInterval(cb, ms)
  - Global Objects
  - Console Object
  - Process Object

- ○ **Utility Modules**
  - ▪ OS Module
  - ▪ Path Module
  - ▪ Net Module
  - ▪ DNS Module
  - ▪ Domain Module

- ○ **Web Module**
  - ▪ What is a Web Server?
  - ▪ Web Application Architecture
  - ▪ Creating a Web Server using Node
  - ▪ Make a request to Node.js server
  - ▪ Creating a Web client using Node

- ○ **Express Framework**
  - ▪ Express Overview
  - ▪ Installing Express
  - ▪ Hello world Example
  - ▪ Request & Response
  - ▪ Request Object
  - ▪ Response Object
  - ▪ Basic Routing
  - ▪ Serving Static Files
  - ▪ GET Method
  - ▪ POST Method
  - ▪ File Upload

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- Cookies Management

   o **RESTful API**

     ▪ What is REST Architecture?

     ▪ HTTP methods

     ▪ RESTful Web Services

     ▪ Creating RESTful for a Library

     ▪ List Users

     ▪ Add Users

     ▪ Show Detail

     ▪ Delete a User

Projects in this course

Frontend

- 5-7 Static websites using HTML, CSS, JS, Bootstrap and Tailwind
- 4-5 Apps / Website using React JS

Backend

- 3-4 Small scale Apps
- 1 Complete backend APIs app

Full Stack

- Complete E-commerce Application

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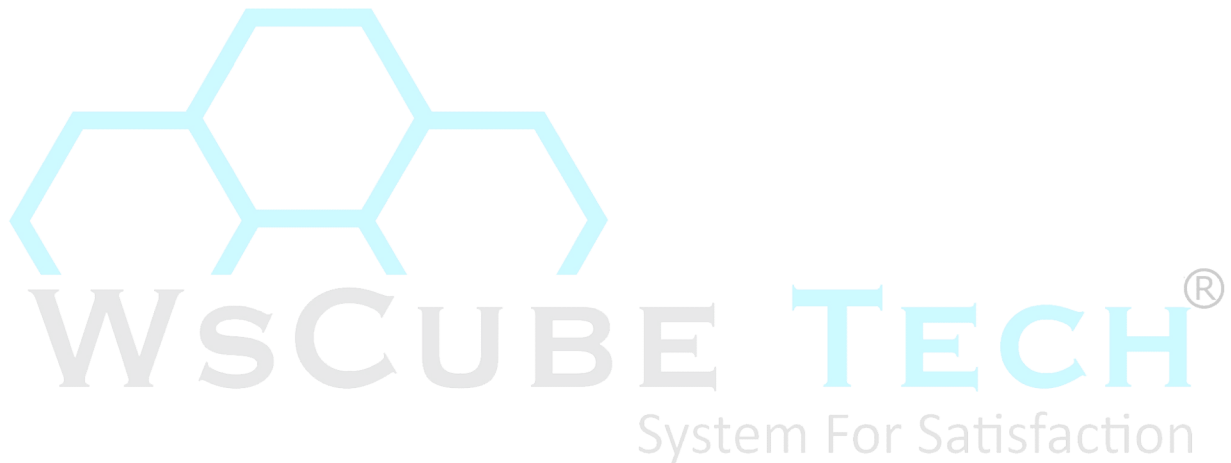
Features of this program

- Daily recording

- Beginners course

- Doubts sessions

- Complete Practical Course

- Industry like projects

- Job ready curriculum