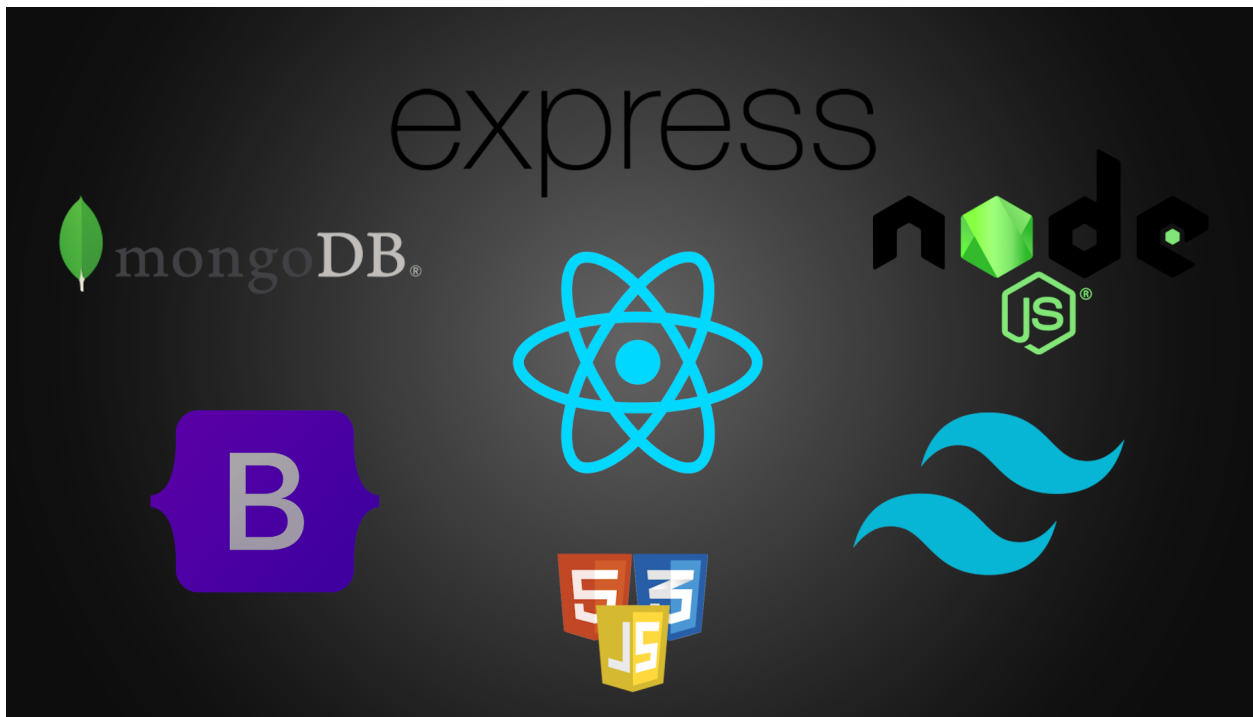


FULL-STACK WEB DEVELOPMENT - MERN



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

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

VCS

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

HTML

- HTML introduction
- HTML page structure
- HTML tags
- HTML5
- List
- Image
- Link
- Form
- Table
- Iframe
- Video
- HTML div

CSS


- CSS introduction
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- Selectors
 - Inline vs Internal vs External Styling
 - CSS Properties
 - Background, borders, margins and padding
 - Font styling
 - Font awesome / google font
 - Pseudo-elements and pseudo-classes
 - Tool tips
 - Transitions, Transformation, Animations
 - Box sizing
 - Flex
 - Grid
 - Creating a page design
 - Mini project 1

BOOTSTRAP


- Bootstrap introduction
- Containers / container-fluid
- Table
- Colors
- Alerts and buttons
- Spinners and cards
- Pagination and drop down
- Carousel
- Mini project 2

JAVASCRIPT

- JavaScript introduction
 - Variable, scoping and data types
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- Strings and numbers
 - Comments
 - Operators
 - Conditional statements
 - Loops
 - Break and continue
 - Arrays
 - Stacks
 - Objects
 - Maps
 - Hashing
 - Set timeout, setInterval, clear interval
 - Working with DOM
 - Developers tools in Browsers
 - Call back function
 - Promise
 - JQuery
 - Prototypes
 - Closures
 - Local Storage
 - Ajax
 - Advanced javascript (ES6, ES7 & ES8)
 - OOP concepts
 - Mini project 3

DATABASE

- Introduction
 - SQL vs NoSQL
 - SQL familiarization
 - CRUD operations
 - Introduction to MongoDB
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- Installing MongoDB
 - Creating database and create collection
 - Connecting MongoDB
 - Data modeling
 - Creating and retrieving data
 - Updating and deleting data
 - Limit, sort and indexing
 - Data Types
 - Aggregation
 - Database replication and sharing
 - Drop database and drop collection
 - MongoDB with ExpressJS

NODEJS


- NodeJS introduction
 - Install NodeJS
 - Node Package Manager (NPM)
 - Create NodeJS app
 - Simple server using NodeJS
 - Request and Response
 - Response types - JSON,HTML and XML
 - Emitter
 - Buffers
 - Streams
 - File system
 - Global objects
 - Utility modules
 - Web modules
 - Rest API
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- Scaling a NodeJS application
 - Packaging

EXPRESSJS


- ExpressJs introduction
- Install ExpressJS
- Routing
- HTTP methods
- HTTP response codes
- Express params and Query strings
- Middle wares
- Templates
- Static files
- Form data
- Express with Database
- Cookies
- Sessions
- Authentication
- JWT token, Passport.js
- Creating rest API
- Scaffolding
- Debugging
- Mini project 4

REACTJS

- React introduction
 - Installing React
 - Creating react application
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- Understanding basics of React app
 - JSX
 - React components
 - Class components vs function components
 - Understanding virtual DOM and single page apps
 - React lifecycle
 - States and props
 - Conditional rendering
 - Event handling
 - Forms
 - Controlled vs Uncontrolled components
 - Formik
 - Routes
 - Pure components
 - High order components
 - Redux
 - Babel and webpack
 - Axios
 - Server side rendering

TAILWIND

- Tailwind introduction
 - Why Tailwind?
 - Layout
 - Flexbox and grid
 - Alignment, pacing and sizing
 - Typography
 - Backgrounds
 - Borders
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- Effects
 - Filters
 - Tables
 - Transitions and Animation
 - Transforms
 - Interactivity
 - Mini Project 5

DEPLOYMENT

- Building and file management
- Domain and subdomain
- Domain Name System
- Security Protocols
- SSL
- Firebase
- Deploy using Railway and MongoDB Atlas
- Deploy using netlify
- Deploy using AWS Ec2

PROJECTS

- Portfolio website
 - E-commerce application
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