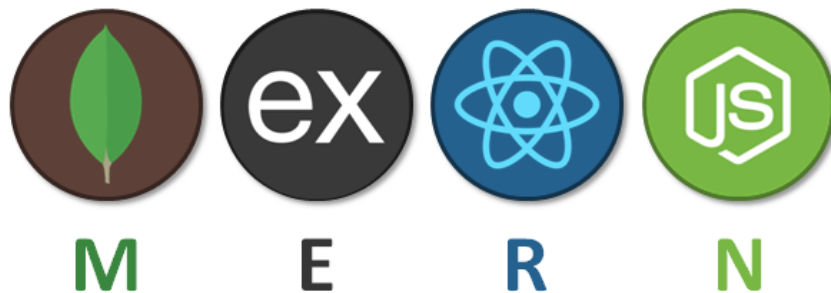




The Coding School



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MERN FULL STACK PROGRAM

3-months full stack development program

HTML

- Introduction to HTML
- Basic HTML Elements
- HTML Attributes
- Links and Navigation
- Images and Multimedia
- Lists
- Tables
- Forms and Input
- Semantic elements in HTML
- HTML5 Features

CSS

- Introduction to CSS
- Selectors
- Colors, Backgrounds, and Borders
- Text Styling
- Box Model
- Display and Visibility
- Positioning
- Flexbox
- Grid Layout
- Transitions and Animations
- Responsive Design
- Advanced / Best Practices (CSS variables, pseudo-classes, pseudo-elements)

JAVASCRIPT

- Introduction to JavaScript
- Basics & Syntax
- Control Flow
- Functions
- Arrays
- Objects
- String & Number Methods
- DOM Manipulation
- Event Handling
- Advanced Functions
- ES6 Features
- Objects & Classes
- Asynchronous JS
- Error Handling

- Web APIs
- JSON (JavaScript Object Notation)
- Modules & Bundlers (ES Modules, CommonJS)
- Promises & Fetch API
- Error Objects & Custom Errors
- Browser Storage APIs (LocalStorage, SessionStorage)

React JS

- Introduction to React
- JSX (JavaScript XML)
- Components
- State Management (useState)
- Event Handling
- Conditional Rendering
- Lists and Keys
- Component Lifecycle
- useEffect Hook
- Forms in React
- React Router
- Context API
- Formik
- Advanced Hooks (useReducer, useRef, useMemo, useCallback, Custom Hooks)
- Styling in React API Integration (Fetch, Axios)
- State Management Libraries (Redux, Redux Toolkit)
- Performance Optimization

Node JS

- Introduction to Node.js
- Setting up Node.js Environment
- Node.js Modules (Built-in Modules)
- npm & Package Management
- Core Modules
- Global Objects
- HTTP Module (Creating Servers, Handling Requests & Responses)
- Express.js Basics (Routing, Middleware, Static Files)
- RESTful API Basics (GET, POST, PUT, DELETE)
- Template Engines (Pug, EJS)

Express JS

- Introduction to Express.js
- Setting up Express Environment
- Routing Basics
- Route Parameters & Query Strings
- Middleware
- Serving Static Files

- Handling Forms & JSON Data
- Template Engines
- Error Handling & 404 Pages
- RESTful APIs
- Integration with Databases
- Environment Variables & Config
- Basic Authentication
- Advanced Routing
- Advanced Middleware
- File Uploads
- Deployment

MongoDB

- Introduction to MongoDB
- Installing MongoDB & Setting up Environment
- Databases, Collections, and Documents
- CRUD Operations
- Queries & Filtering
- Operators (Comparison, Logical, Array)
- Indexes & Indexing Basics
- Data Modeling & Schema Design
- Integration with Node.js / Express.js
- Authentication & Authorization