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# MERN





# About Course

**MERN stands for MongoDB, Express, React, Node, after the four key technologies that make up the stack.**

**MongoDB — document database. Express(.js) — Node.js web framework. React(.js) — a client-side JavaScript framework.**



# MERN

## CURRICULUM

1

### ES5

About JS

Grammars and types

Control flow and error handling

Loops

Function

Objects

Arrays

Promises

2

### ES6

Let and const

Template literals

Arrow Function

Default parameter

Async Await

3

### React Concept

Hello World



**Introducing JSX**  
**Rendering Elements**  
**Components and Props**  
**State and Lifecycle**  
**Handling Events**  
**Conditional Rendering**  
**Lists and Keys**  
**Forms**  
**Lifting State Up**  
**Composition vs Inheritance**  
**Thinking In React**

**4**

## **Advance React**

**Accessibility**  
**Code-Splitting**  
**Context**  
**Error Boundaries**  
**Forwarding Refs**  
**Fragments**  
**Higher-Order Components**  
**Integrating with Other Libraries**  
**JSX In Depth**  
**Optimizing Performance**  
**Portals**  
**React Without ES6**



- React Without JSX
- Reconciliation
- Refs and the DOM
- Render Props
- Static Type Checking
- Strict Mode
- Typechecking With PropTypes
- Uncontrolled Components
- Web Components

## 5 Node.Js

- Getting started with node.js
- Nam
- Modules
- Async Programming
- Callback
- Events streams

## 6 Express.Js

- MVC Pattern
- Introduction
- Routing
- HTTP Interaction
- Handling Form
- Handling query parameters



Cookies and sessions

User Auth

Error handling

Creating and consuming restful services

Using templates

## 7 Mongo DB

Understanding NoSQL MongoDB

Finding Documents

Crud

Indexing

Data modeling

Aggregation

Implementing mongoose




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