

# MERN Stack

Best for Developing Web Apps



MongoDB



Express JS



React JS



Node JS

# Evolution of Web

The web has evolved significantly since its inception in the early 1990s. The development of the web is often classified into three stages:

Web 1.0 (1991–2004), Web 2.0 (2004–2010), Web 3.0 (2010–present)



**Web 1.0**

read-only  
static



**Web 2.0**

read-write  
interactive



**Web 3.0**

read-write-trust  
verifiable

# A Beginner's Guide to Web Development

## Terminologies

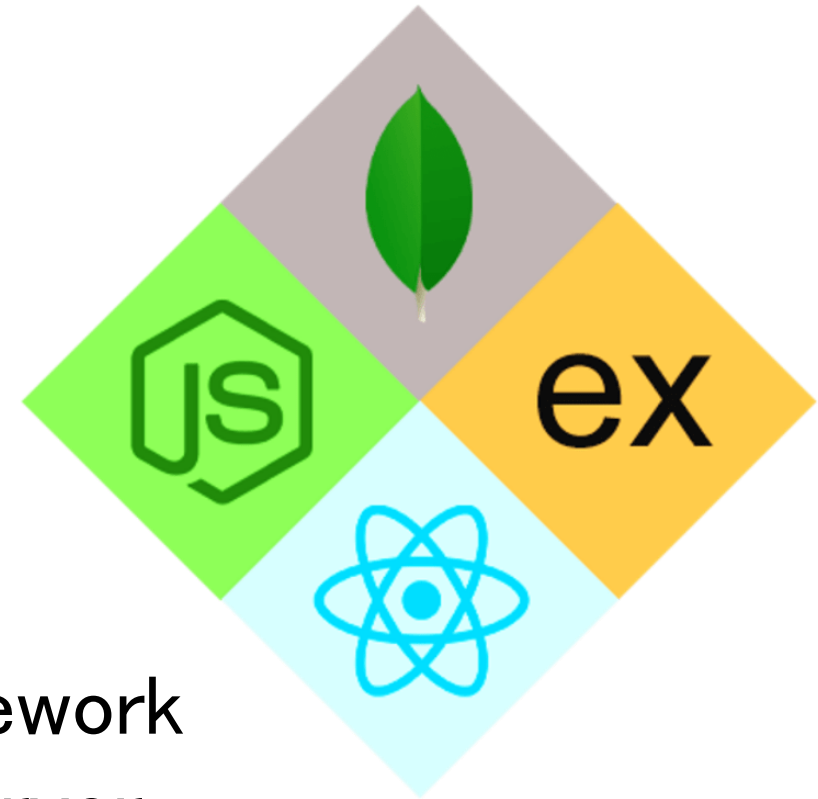
- ☐ Programming language
- ☐ Frontend
- ☐ Backend
- ☐ Full-stack
- ☐ Library
- ☐ Framework
- ☐ API
- ☐ Database
- ☐ Server
- ☐ IDE

# Welcome to the course!

## What is the MERN stack?

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
- ❑ Node.js — the premier JavaScript web server



# Course Objectives

## Why the MERN stack?

MERN stack is a collection of technologies that enables faster application development. It is used by developers worldwide. The main purpose of using MERN stack is to develop apps using JavaScript only.

- ☐ JavaScript-based
- ☐ Reusability
- ☐ Scalability
- ☐ Faster Development
- ☐ Community Support

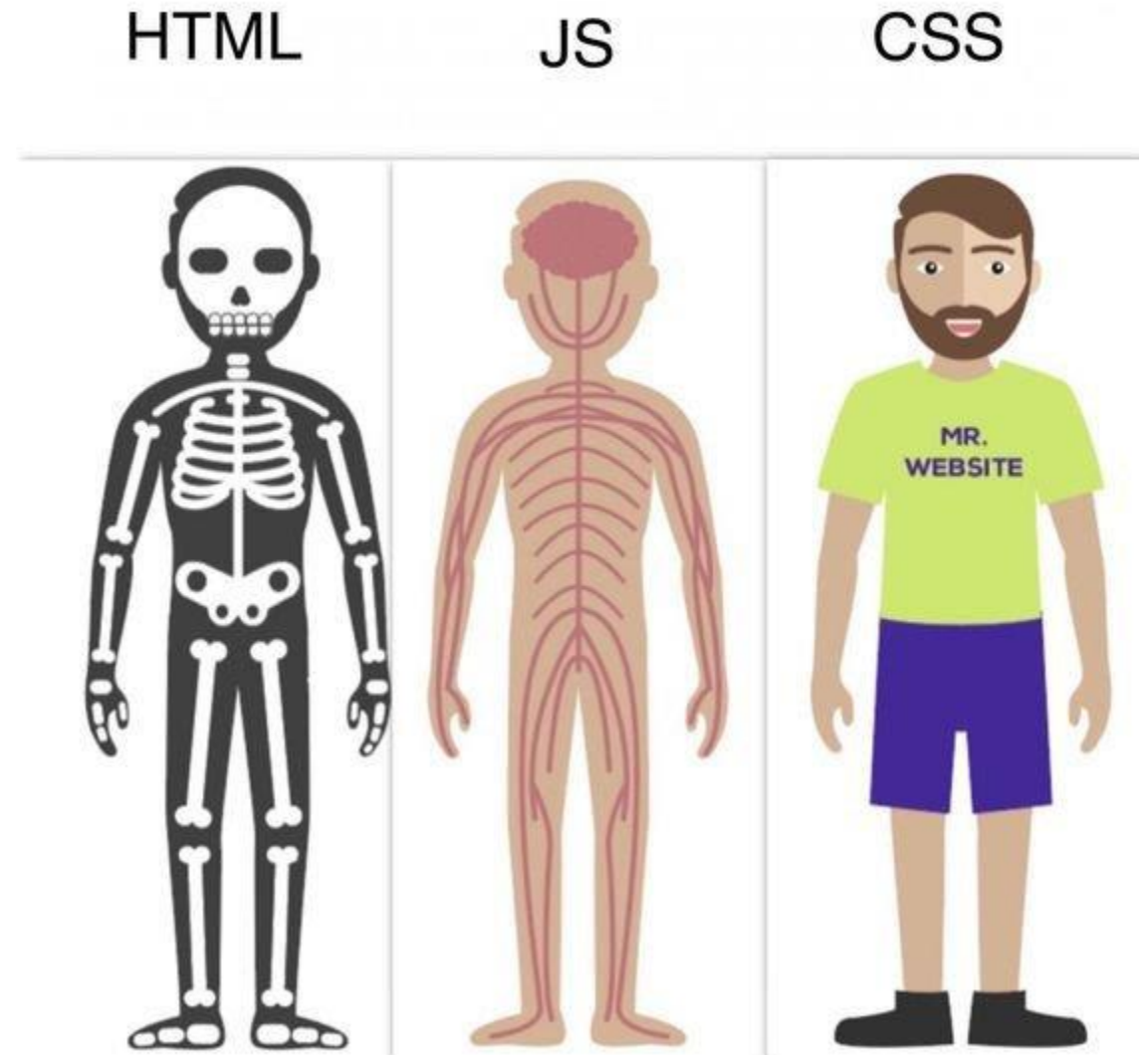
# Prerequisite

1. **HTML:** Hypertext Markup Language is a markup language used for creating and structuring content on the web. It provides the basic building blocks for web pages.
2. **CSS:** Cascading Style Sheets is a style sheet language used for describing the visual presentation of a web page. It provides the layout, colors, fonts, and other stylistic elements of a web page.
3. **JavaScript:** A programming language used to create dynamic and interactive web pages. It is often used in conjunction with HTML and CSS to provide interactivity and functionality to web pages



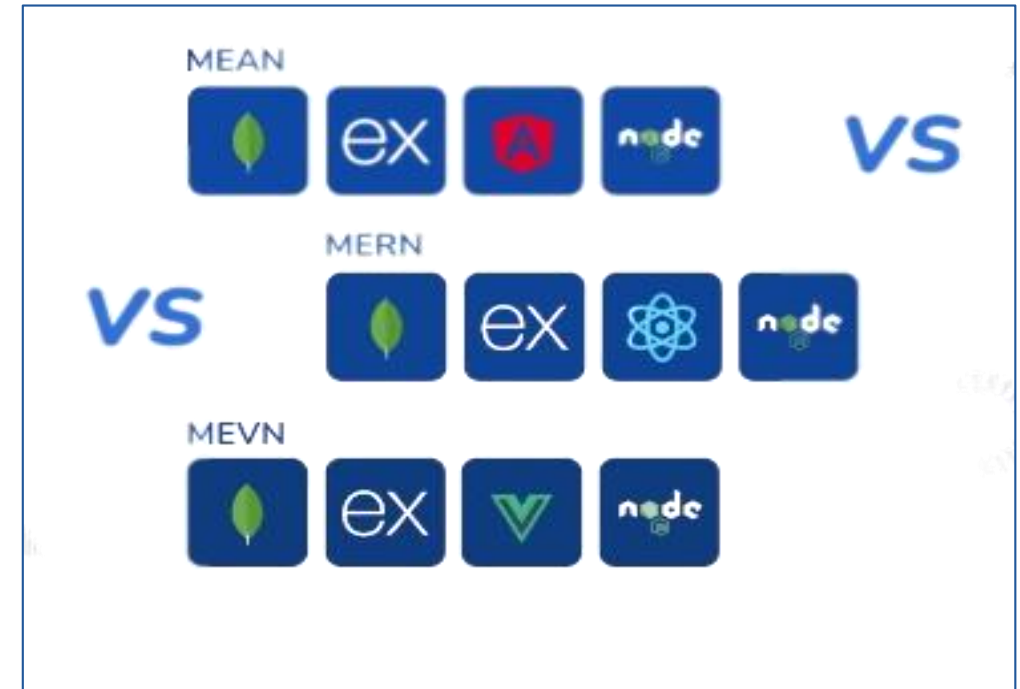
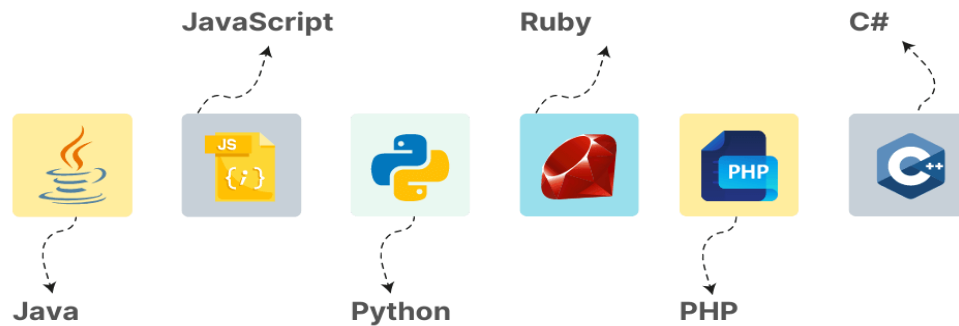
# HTML, CSS, and JavaScript in Web design?

1. **HTML** is Skeleton of your website
2. **CSS** gives all the nice fleshy covering to the website
3. **JavaScript** provides basic functionality to the website to come alive.



# Front End vs Back End vs Full Stack

## Top Backend Programming Languages



## Top Front-End Programming Languages





# Course Outline

Week 1: Introduction to web development and HTML/CSS

Week 2: JavaScript fundamentals

Week 3: Introduction to React

Week 4: Introduction to Node.js and Express

Week 5: Introduction to MongoDB

Week 6: Creating a Server with Express and Node.js

Week 7: Creating a React User Interface

Week 8: Connecting Frontend and Backend with Axios

Week 9–12: Build MERN App

# Hourly Salary

## Junior Mern Stack Developer



Hourly: \$110-\$250 - Intermediate - Est. Time: More than 6 months, 30+ hrs/week - Posted 23 days ago

We are hiring multiple technical graduates trained in any of the technologies below Node.js React.js Angular.js Other Skills Candidates having freelance experience in any of the above skills will be highly preferred. Quick learner and updated on new technologies. Strong Analytical and problem-solving skills. Build efficient, testable, and reusable codes... [more](#)

Node.js MongoDB React ExpressJS JavaScript API Web Application AngularJS CSS API Integrat >

Proposals: 50+

Payment verified \$0 spent United States Connects to apply: 8 Connects

## MERN Stack developer



Hourly: \$40-\$60 - Entry level - Est. Time: More than 6 months, 30+ hrs/week - Posted 2 days ago

Professional MERN stack developer Required skill: MERN, REST API



MongoDB React Node.js ExpressJS JavaScript Web Application

Proposals: 50+

Payment unverified \$0 spent Germany Connects to apply: 8 Connects

# Hourly Salary

### Looking for a Mern Stack Developer




Hourly: \$55-\$65 - Expert - Est. Time: Less than 1 month, Less than 30 hrs/week - Posted 5 days ago


Hi,I'm looking for a MERN stack developer who is looking for a short term client. You will be working with my team and I on a few different projects. Please keep in mind, you will be expected to join our agency on Upwork. Now the project you will work is about the introduction of products and We are in need of good web front-end develop who can work with us shor...  
[more](#)

JavaScript Node.js jQuery React ExpressJS MongoDB API CSS

Proposals: 50+

 Payment unverified ★★★★★ \$0 spent 📍 United States Connects to apply: 4 Connects

### Student / Ambitious Junior: React + TypeScript (Redux? MUI? Node?) #learn #grow #JavaScript #MERN



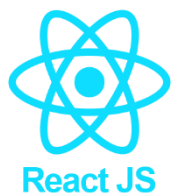
Hourly: \$3-\$5 - Intermediate - Est. Time: 3 to 6 months, 30+ hrs/week - Posted 7 days ago

Hi, I'm currently looking for some help with React and JavaScript/TypeScript, Redux, APIs, MongoDB etc. You don't need to be an expert yet, but should be interested to become a reeeeeeally good developer. Payment? Unfortunately I can not pay a lot, but it can be a very good opportunity to learn more and deepen your knowledge. We will work on tricky problems...  
[more](#)

React TypeScript

Proposals: 50+ Number of freelancers needed: 2

 Payment verified ★★★★★ \$300k+ spent 📍 Austria Connects to apply: 8 Connects



React JS

TS

JS



ANGULAR

TS



Vue.js

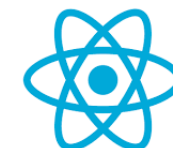
JS



Flutter



Dart



React Native

JS



Objective-C



Kotlin



Java

