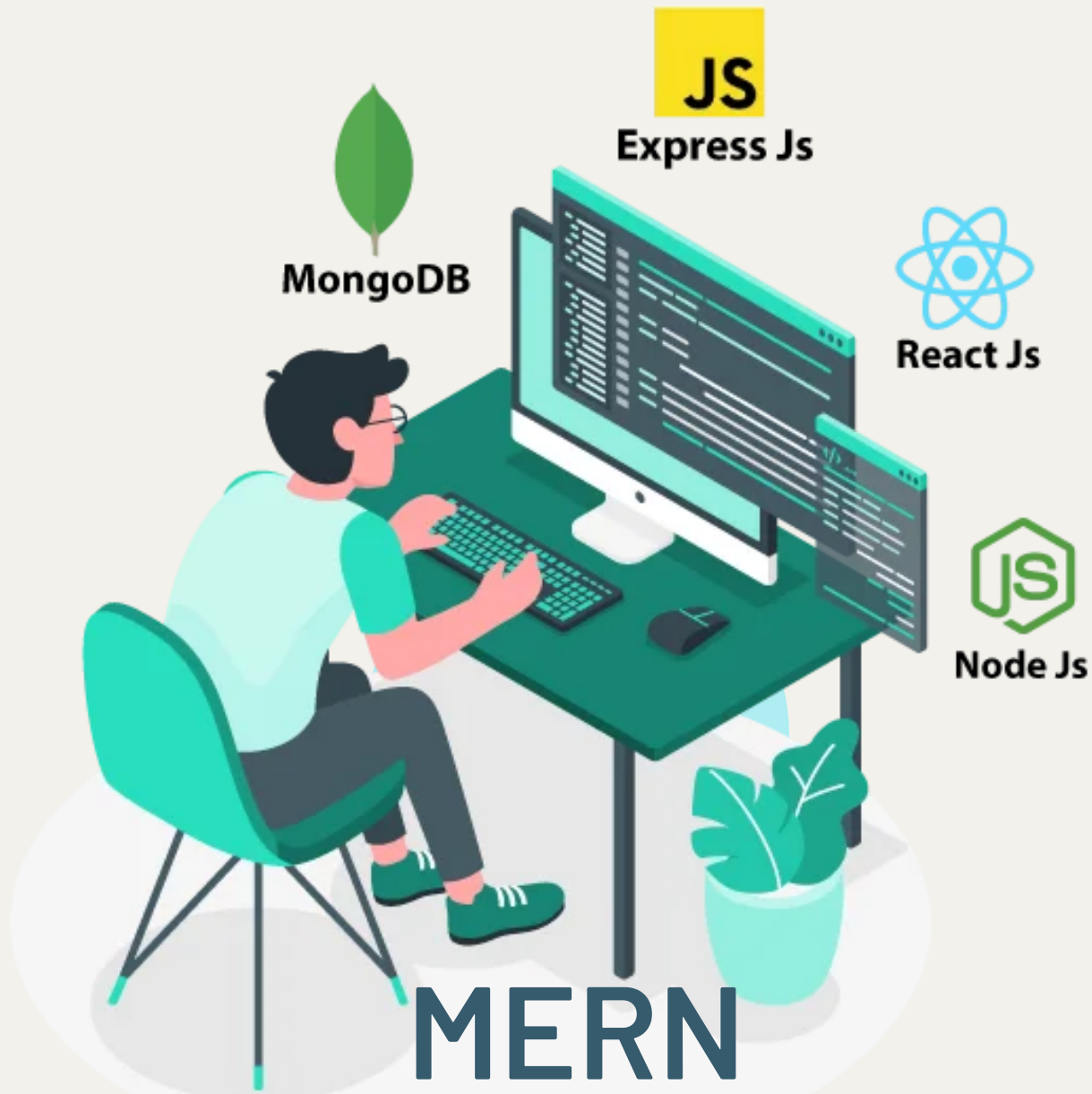# BODHAN

MERN FULL STACK

CURRICULUM

- Become a full stack developer with expertise on MERN Stack.
- Build strong web development fundamentals and problem solving skills.
- Architect end-to-end web applications using emerging frameworks and create a portfolio of projects.

Table of Contents

BODHAN

Developer Foundations

You will learn the essentials of Operating Systems, Networks and use some essential developer tools like Command-Line and Git. You'll learn to version your software with Git and push your code to GitHub.

Introduction to OS & Networks

Overview of OS Concepts

Networks & Internet

Network Layer

Application Layer

Web Servers

Working with Command Line

Files & File System

Managing System Packages

Environment Variables

Network

Collaborating with Git

VCS & Git Repositories

Staging Area & Commits

Build Your Own Dynamic Web Application

Introduction to JavaScript

Data Types   Arrays

Variables   Objects

Basic Operators   Control Flow

Conditionals   Comments

Loops   Math Function

Functions

DOM Manipulation

The JavaScript Console   Manipulating Text and Content

Introduction to the DOM   Manipulating Attributes

Select and Manipulate   Local Storage

Important Selector Methods

Manipulating Style

Course Project

Todos Application

Build a Todos Application using HTML5, CSS3 and JS

Forms

Array Methods

Events, Fetch & Callbacks

Course Project

JavaScript Essentials

In this course, you will learn the concepts like Events, Scope, Hoisting, this, ES6 Classes, Error handling, More about Objects and how to handle Asynchronous JavaScript.

Rest parameters and spread syntax

Destructuring Arrays

Destructuring Objects

this

this in methods

window scope

this in function declarations

this in events

Prototypes & ES6 Classes

Built-in Constructor Functions

Constructor Property

Inheritance

this in classes

Asynchronous JS

Async/Await

Promises

Array Methods

map

filter

reduce

String Manipulations

trim & split Methods

toUpperCase & toLowerCase Methods

includes Method

MERN Full Stack

Responsive Web Design using Flexbox

This course will help you to develop responsive layouts using CSS Flexbox and CSS Media Queries.

CSS Layouting

CSS Flexbox

Display	Flex-wrap	Flex-grow
Flex-direction	Flex-row	Flex-shrink
Justify-content	Align-content	order
Align-items	Align-self	

Sizing Elements

Overflow

Box Sizing

Content Box

Border Box

CSS Media Queries

Media Query

Media Types

Media Features

Width, min-width, max-width

Height, min-height, max-height

Orientation

Combining Multiple Media Features in a single Media Query.

Logical Operators (and)

Logical Operators (not)

Logical Operators (,)

Node JS

Learn about the incredibly prevalent databases today. Through this course, you'll develop strong fundamentals and be proficient in concepts related to Databases and DBMS.
Most importantly, you'll also be able to perform powerful queries on databases using SQL.

Introduction to NodeJS

Node REPL

Modules

NPM CLI

Aggregations

Usage of NPM Packages

Introduction to Express Web Application Framework

HTTP Server

Routes

Handling HTTP Request

Preparing HTTP Response

Fundamentals of Application Building in Express

Integration with Database

CRUD Operations

Error Handling

Middlewares

Securing APIs

Json Web Token(JWT)

Authentication vs Authorization

Building Secure Web API with Express

Course Project   Build your rest web application,

Twitter   A Social Networking platform similar
Web Application   to Twitter using ExpressJS.

React JS

In this course, you will learn how to build stateful web applications with the ReactJS library. When you finish this course, you will be comfortable creating an application in ReactJS, from scratch.

Introduction to React JS

Why React?

Stateful + Stateless components

Introducing JSX

Rendering Elements

Components and Props

State and Lifecycle

Handling Events

Conditional Rendering

Lists and Keys

Forms

CSS in JS

Styled Components

Emotion

Routing

Query parameters

Path parameters

Authentication and Authorization

Course Project

Ecommerce Application

Build an Ecommerce application using React JS

MongoDB

Dive into MongoDB, one of the leading NoSQL databases. This course will help you build a strong foundation and proficiency in concepts related to MongoDB. Most importantly, you'll learn how to execute powerful queries, manipulate data, and manage complex data structures in MongoDB.

Non Relational Databases (MongoDB)

Introduction to MongoDB

CRUD operations

Querying Documents

Aggregations

Nested Documents

Capstone Project - Movies App

In this project, we will be building a Movies App, where users can log in, view account details, browse movies, including trending ones, and view movie details.

Tools and Technologies used

HTML

CSS

JS

React JS

Capstone Project - Tasty Kitchens

In this project, we will be building a Tasty Kitchens Restaurant App. Users will be able to log in, select recipes, add them to their cart, and place orders.

Tools and Technologies used

HTML

CSS

JS

React JS

24/7

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