LEARN 2 EARN LABS

Full Stack Web Development
MERN STACK
with Average Salary Package of INR 5 LPA

Curriculum Brochure

Full Stack Web Development - MERN

Full stack web development using MERN (MongoDB, Express, React, Node.js) has emerged as a highly sought-after career option in the current digital landscape. A full stack developer is responsible for designing, developing, and maintaining both the front-end and back-end of web applications. The MERN stack is a popular choice for full stack web development due to its flexibility, scalability, and efficiency.

In terms of career prospects, full stack web development using MERN offers a wide range of opportunities in various industries, including e-commerce, finance, healthcare, and education. Companies are always looking for skilled full stack developers who can work on complex web applications and handle a large volume of data and traffic. This has led to a high demand for full stack developers who are proficient in using the MERN stack.

To become a full stack web developer using MERN, one must have a strong understanding of front-end web technologies like HTML, CSS, and JavaScript, React as well as back-end technologies like Node & Express JS and MongoDB. Full stack web development using MERN training objectives typically include learning how to design and develop web applications using the MERN stack, understanding how to manage data and handle user requests, and deploying web applications to the cloud using services like AWS and Heroku. full stack web development using MERN is a rapidly evolving field, which means that there is always something new to learn and explore.

As a full stack web developer, you have different specialisations to work so you will have different options to start your career.

Middle Level Career Options

After successfully completion of training, you can apply for various job roles, like
- Front-End Developer
- Back-End Developer
- MERN Stack Developer
- Software Developer
- Full Stack Developer
- UI/UX Designer, etc.

Top Level Career Options

After two to five years of experience, you can apply for job roles, like
- Senior Software Developer
- API Engineer
- Senior Web Developer
- Project Manager
- Project Head
- Chief Technical Officer (CTO)

In conclusion, full stack web development using MERN is a highly sought-after career option in the current digital landscape. It offers a wide range of opportunities, a high level of job security, and the ability to work on both the front-end and back-end of web applications.

There are diverse
Career Options
in MERN Stack

Full Stack Web Development– As Career Option

Increasing Demand	Nowadays, the popularity of web based applications and services is rapidly increasing so the demand for skilled full stack web developers is on the rise. Every organization looking to work with these developers who can develop and manage their web applications and services.
Lot of Opportunities	It offers a lot of opportunities to work on a variety of projects, from developing an attractive UI, adding the functionalities to enhancing the existing ones. Hence the professionals gets the opportunity for creativity or innovation in solving problems.
Competitive Salaries & Benefits	The full stack web developers are proficient in all the phases of web developer from front-end, API's, web services to back-end. They have the ability to work on a wide range of web based projects.
Latest Technology Trends	After having some working experience and expertise, the full stack web developers can progress into senior, leadership or managerial roles. These job roles makes them highly valued in the industry.

Training Roadmap
Full Stack Web Development

Full stack web development helps businesses and organizations to improve the user experience, increase the efficiency, providing better services, gain competitive advantages, reduce maintenance costs and integrate or collaborate with other systems. Full stack development enables businesses to design & develop web applications or services which can be accessed from any location with any device. Overall, full stack web development provides flexibility to the businesses and help them to reach to a wide audience.

HTML, CSS & Bootstrap	JavaScript
NodeJS & ExpressJS	React JS
Version Control, Git & GitHub	MySQL & MongoDB

Available Training Programs to become a Full Stack Web Developer

Program	Associate Program	Professional Program
Duration Required	3-4 Months	6 Months
Level	Intermediate	Expert
Working Experience	Not Applicable	3 Months
Timings	Week-days (Mon - Fri)	
Activities	Live Classes (Online / Offline), Doubts Sessions, Presentations, Minor Projects, Training, Assignments.	Live Classes (Online / Offline), Doubts Sessions, Presentations, Training, Assignments, Mock Interviews, Capstone Projects
Amenities	Video Resume, Portfolio, Working Experience* (based upon projects), Interview Questions, Technical Support, Job Notifications.	
Outcome	Valid Certifications	Valid Certification & Experience

Benefits / Perks with Learn2Earn Labs Training Program

Hands-On Training

Working Experience

Valid Certification

Corporate Connections

Attractive Portfolio

Video Resume

Professional Development

Interview Preparation

FSWD – MERN Training Program

This program is designed to train students with the skills and experience to develop web applications by working with front-end, back-end along with database connectivity and management.

Practical Based Sessions
Training program available in four months & six months duration

Dummy Projects
To build your hands-on expertise & portfolio

Resume Building Assistance
To create an attractive resume for your candidature

Interview Preparation
So you can present your skills in a better way

Mentoring & Job Assistance
To help you in getting good career or placements

Who can join

Any graduate or post graduate student from BCA or MCA, B.Sc. or M.Sc. (CS / IT) or B.Tech or M.Tech (any specialization), can join the full stack web development training program using MERN. The student must have basic computer knowledge and interest in websites or internet tools.

Any working professional, having some experience in IT or related industry and now looking for salary hike or promotions can also join the full stack web development training program.

Training Mode

Online Live Classes are available

- 4x more effective way of learning
- Hands-on experience with projects & assignments
- Virtual class with real interaction with trainer
- Monitoring support & troubleshooting issues
- Masterclass from industry experts & leaders
- Live class recordings for revision purpose

Full Stack Web Development Training in Agra

Learn2Earn Labs

F-4, First Floor, Anna Ikon Complex, In Front of Deviram Food Circle, Sikandra-Bodla Road, Sikandra, Agra, Uttar Pradesh – 282007

Call : +91-9548868337

Training Modules

Objectives :

The objective of your full-stack web development using MERN training program is to equip you with the necessary knowledge and skills to build dynamic and robust web applications using the MERN stack. Throughout the program, you will learn how to use MongoDB as a NoSQL database, Express.js as a back-end web application framework, React.js as a front-end JavaScript library, and Node.js as a run-time environment for server-side JavaScript. You will also learn how to integrate these technologies to develop and deploy full-stack web applications. By the end of the training program, you should be able to build scalable, high-performance, and interactive web applications that meet industry standards and user requirements.

Module 1: Introduction to Web Development

Introduction to Web Application, basics on web application, web application VS websites, building block of web app development, frontend & backend development, APIs, web services, microservices, market trends and career scope.

Module 2 : Hyper Text Markup Language (HTML)

Introduction to HTML5, Environmental setup of HTML5, HTML tags, elements and attributes, Syntax of HTML, Custom Attributes, Line Breaks, Spacing & Comments, HTML head tag, Setting Website Icon & Title, Background Images & Colors, Block & Inline Level Elements, Text Formatting Tags, Heading & Quotes, Images, Linking Web Pages, Creating Lists, Play Audio & Video, Embedding External Content, Creating Tables, Forms & Inputs, Semantic Elements, Using Emoji, Entities & Symbols in Website.

Module 3 : Cascading Style Sheets (CSS)

Introduction to CSS3, CSS3 Environmental Setup with HTML5, Linking CSS3 with HTML5, Priority of CSS3 Stylesheets, Comments in CSS3 Properties & Selectors in CSS3, CSS "IMPORTANT" Rule, Priority of CSS Stylesheets according to Selectors, Text Colors & Transparency in CSS3, CSS Dimensions & Units, Shorthand Properties Backgrounds, Gradients Properties, Text Styling, Text Fonts, Google Fonts & Icons.

CSS3 Box Model (Border, Margin, Padding, Shadowing, Redefining box-width, outlines etc.) Floats, Clear & Overflow, CSS3 Display Property, CSS Element Visibility, Position & Layering, Transitions & Animations, Creating Column Layouts, CSS Counters, Creating Tables Using CSS, Transforming CSS Elements, Clipping, Shaping, Masking & Filters, Modular CSS, CSS3 Miscellaneous (Vendor & Autoprefixing, Initial, Inherit & Auto, Misc. Properties, Misc. Pseudo Elements, Misc. Pseudo Classes etc.)

Module 4 : Bootstrap

Introduction to Bootstrap, Web Design – Wireframing, Navigation Bar, Grid Layout System, Bootstrap Containers, Bootstrap Buttons, Font Awesome, Styling, Bootstrap Carousel, Cards, Media Query Break Points, Combining Selectors, Selector Priority.

Module 5 : JavaScript

Introductions to JavaScript, Variables, let & const keyword, string handling, operators, control flow (if-else, switch, while loop, do while loop, for loop, break, continue, etc.), Array operations, objects & functions, scopes, methods (forEach, sort, find, some, fill, splice, map, filter, reduce, call, apply, bind, etc.).

Object cloning, keyword (this, new, class, extends & super) , arrow functions, function declarations & expressions, getter & setter methods, static methods, closures, Document Object Model, DOM Manipulation using JavaScript, attributes, Lists, JavaScript Events, callbacks, promise, Introduction of AJAX.

Module 6 : Node JS Framework

Introduction to Back End Development, skills required for backend, Introduction to Node JS, V8 engine, Problems before Node JS, Node JS installation, REPL, CLI, Client Server Architecture, Server Deployment in Node JS, Source Code, Single Threaded Model, Event Loop, PayPal Problems & Solution.

Basics of NPM, NPM installation, Modules (Core Modules, User Defined Modules, & Third Party Modules), OS Module, Path Module, FS Module (Sync & Async), Packages in Node JS, package.json, package-lock.json, Http Module, Handling Routes, Event Loop Code Examples, URL Module, Verbs in HTTP, Headers in Node JS, Status Codes, API in NodeJS, Working with Nodemon, User inputs, file system, Asynchronous Data Handling, Async Patterns (Blocking code, Setup Promises, Refractor to Async, Node's native option, Events Emitter, Streams.

Module 7 : Express JS Framework

Introduction to Express JS, creating a server using express, HTTP Request/Response Cycle, starter project installs, Http (basics, headers, request object, html file, examples), API VS SSR, Params, Query String, express routing, express router, Middleware setup, Middleware functions, get & post method, web server, Introduction to Nginx, Nginx Architecture, Introduction to CORS, Properties of Domain & URL, Cross-Origin Requests, MVC Architecture, Install Postman, Working with Postman

Module 8 : Database Management

Introduction to Database, Need of Database, RDBMS, NoSQL DBMS, NoSQL Database Categories.

Module 9 : MySQL Database

Introduction to Database & MySQL, MySQL Installation, MySQL Structure, Schema (Create, Drop & User Database), Table Operations, Create, Drop, Alter, Rename, Update, Add, Column Insert, Update, Delete, Select, Where, AND, OR, NOT, In, Between, Limit, Order By, Offset, Count, Sum, Avg, Min, Max, Nested Queries, Clause, Search Pattern, Foreign Key & Joins.

Module 10 : MongoDB Database

Introduction to MongoDB, MongoDB Terminology, MongoDB client-server connection, MongoDB Installation, CRUD (create, read, update, delete) operations, Data Modelling overview & approaches, data modelling in MongoDB, Types of Data Models, Flat Schema, Star Schema, Hierarchical Schema, Relational Schema, Object Relational Schema, Introduction to MongoDB Architecture, Distributed database, MongoDB instance, Connecting MongoDB & NodeJS (local instance & cloud instance), Introduction to MongoDB Compass, MongoDB Compass Dashboard, code implementation, Cursors, Query Optimization, Distributed queries.

Module 11 : Mongoose

Introduction to Mongoose, Object Mapping via Mongoose, creating models, exporting model, MVC Architecture, Consuming models, creating locations controller, creating parameterized API.

Module 12 : ECMAScript (ES6 or Modern JavaScript)

Introduction to ECMAScript, ES6 variables, let, var, const, arrow function, template literal, default parameter, spread operators, rest operators, rest params, class in JavaScript, class methods, object shorthand, map data type, set data type, map filter reduce, array destructuring, object destructuring, getter & setter methods.

Module 13 : React JS Library

Introduction to ReactJS, features of ReactJS, Single page & Multipage Application, web app architecture patterns, MVC Architecture.

Introduction to React Architecture, client side architecture, advantages & disadvantages of React, reasons to use React, DOM Manipulation, Virtual DOM, npm libraries & package.json for React, folder structure in React, creating first React app, React Element, React Function, React Components, class component, functional component, constructors within the components, defining multiple components, introduction to Props, ways of writing Props, class based Props, function based Props, Introduction to States, setState method, React Component life cycle, Mounting, Updating, unmounting, React Bootstrap Typeahead, passing values between the components, React Events, Conditional

Rendering, React Form, adding and handling React Forms, Form Submission, multiple input fields, validating form input, JSX overview, JSX use cases, API Overview, types of APIs, Rest API, navigation using links, 404 page, implementing styles using NavLink, URL parameter overview, URL parameter configuration, Styling : Inline Styling, stylesheet, JavaScript classes limitations, React Hooks overview, useState() hook, useEffect() hook, useContext() hook, useRef() hook, useReducer() hook, useMemo() hook, useCallback() hook, useLayoutEffect() hook, useDebugValue() hook, custom hooks in React.

Module 14 : Version Control, Git & GitHub

Introduction to Version Control & Git, Command Line Interface, GitHub & Repositories, initialization, status, add, staging, commit, diff, checkout, cloning, push operation, branching, fetching & merging, forking & pull requests.

Module 15 : Miscellaneous

MERN App – Connecting API with React, Deploying MERN app on live cloud server or AWS, server side rendering with EJS, JWT Authentication, Streams, Sockets & Events, NodeJS with MySQL, API's (POST, PUT & DELETE) with MySQL.

Module 16 : Capstone Projects

Utility based major projects to increase your productivity and to build your experience.

E-Commerce Web Portal

You will work on e-commerce project or MERN stack web application that allows users to buy and sell products or services online. The project typically involves building a user-friendly interface using React.js, integrating payment gateways, and implementing a robust backend using Node.js and Express.js to manage the products, orders, and transactions. MongoDB is typically used as the database to store and retrieve product information, user details, and transaction data.

Informative Blog Or Portfolio

You will work on personal blog or portfolio project or MERN stack web application that showcases an individual's work, skills, and experiences. The project typically involves building a front-end interface using React.js that highlights the individual's portfolio or blog posts and a backend using Node.js and Express.js to manage the data. MongoDB is typically used as the database to store and retrieve the individual's portfolio or blog data. Other features that may be included in the personal blog or portfolio project using the MERN stack include user authentication, blog post creation and editing functionalities, image or video gallery, and contact form for inquiries.

Frequently Asked Questions

1. How this training program will help me to get a placement with handsome salary?

Our training program is designed as per the requirements of business industries and latest trends. During training you will get a deep practical exposure of full stack web development & related technologies along with the experience of working on dummy projects. You will be able to work on front end, back end, & database and can also lead or supervise other people to work on those dummy projects. With your skills, experience and abilities, you can get offer from any renowned organization.

2. Why should I choose Full Stack Web Development as a career option?

Nowadays, the popularity of web based applications and services is rapidly increasing so the demand for skilled full stack web developers is on the rise. Every organization looking to work with these developers who can develop and manage their web apps and services.

It offers a lot of opportunities to work on a variety of projects, from developing an attractive UI, adding the functionalities to enhancing the existing ones. Hence the professionals gets the opportunity for creativity or innovation in solving problems.

The full stack web developers are proficient in all the phases of web developer from front-end, API's, web services to back-end. They have the ability to work on a wide range of web based projects.

3. What kind of jobs, will I get after completing this training?

After successfully completion of the training program you would be able to work with renowned companies on various roles like Front-End Developer, Back-End Developer, MERN Stack Developer, Software Developer, Full Stack Developer, etc.

4. What would be the salary, I will receive after completing the training?

Full Stack Web Developers are one of the demanding professionals in corporate industries and their demands are increasing every year. After successfully completing the training you would be one of them and can get an average salary of Rs. 5 LPA or more.

5. Will you provide me, Job Assurance or Job Guarantee?

Yes, We can give you Job Assurance to have a decent job offer. Only you need to attend all the classes or practical session with at-least 80% attendance, complete the assignments, appear in test series, professional development sessions & mock-interviews, work on dummy projects, etc. You must be holding a valid degree in respective domain.

6. Can I attend demo classes after getting enrolled for the training program?

Yes, You can attend the demo classes. Usually, we provide demo classes (up to 3 classes) for fresher and new candidates so they can understand the overall curriculum, clear their doubts, and make sure that the training would be worthy and useful. After demo classes, you can register yourself for the training program.

7. Why should I join Learn2Earn Labs instead of joining any other institute?

It's always difficult to find a good institute or a mentor. At Learn2Earn Labs, its our responsibility to give you a perfect environment to learn, develop your skills & find your talent. At Learn2Earn Labs, we know that you are enough capable to do anything, only you need a guidance & support to improve your skills and practical knowledge.

Learn2Earn Labs will provide you an additional training in professional development depending upon your requirements, which will help you in getting your dream job.

8. How I can pay for my training? Do you offer part payment facility & any EMI plan?

Other than Pay-In-Cash option, any mode of payment is allowed whether it would be UPI, NEFT, Account Transfer, Cheque or Demand Draft.

Yes, we offer part payment facility (with extra 15% processing fee) to reduce your one-time financial burden.

9. Will you provide support or solve my queries after completion of the training?

Yes, we always provide life time assistance support to our students. Whether you want to go for a good job or interview, or want to switch your job or looking for promotion, or looking for some part time income or outsource any project/work, or thinking about to start your own coaching/training business then we will guide you and support you.

10. Will you provide me working experience, If I will get enrolled with this training?

Yes, we will provide you working experience of three months so you can apply on those jobs where some experiences are required. We only provide experience letter to those who join our training programs for at-least six months duration and worked on our dummy project.

11. What would be the admission criteria? How I can join this training program?

After attending the demo classes, you can ask the concern person/faculty to process your enrolment. Then you need to submit the initial amount along with the registration fee. After that you are required to fill our registration form, submit your academic marksheets & degree (scanned copies) and a declaration from to declare that all your information is correct.

12. Will I get incentives, if I will work on your client's project?

Definitely, nothing is free in this world and we also know it very well. We will provide you incentives and reimbursement depending upon your performance & client reports.

13. Will you provide me notes, case studies & other training material?

Yes, we will provide you digital notes for your better learning & revision, job sheets, assignment samples, project report templates, presentation templates and many more.

14. Will you provide me the course completion certificate?

Yes, we will provide you an industry recognized certificate after successfully completing this "Full Stack Web Development – MERN Stack" training program.

Learn2Earn Labs

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