

The MERN stack is Ecera System's popular full-stack development / on job training framework consisting of four technologies: MongoDB, Express, React, and Node.js. Here is a possible syllabus for a MERN Fullstack training program:

Week 1: Introduction to Web Development and MERN Stack

1. Introduction to Web Development
2. Basics of HTML, CSS, and JavaScript
3. Introduction to MERN Stack
4. Setup and installation of MERN Stack
5. Creating a basic MERN Stack application

Week 2: Backend Development with Node.js and Express

1. Introduction to Node.js and Express
2. Building a RESTful API with Node.js and Express
3. Handling HTTP requests and responses
4. Creating and managing routes in Express
5. Connecting to MongoDB with Mongoose

Week 3: Frontend Development with React

1. Introduction to React
2. Creating React components
3. JSX syntax and basic React concepts
4. Rendering data with React
5. Handling user input and events

Week 4: Full-stack Development with MERN

1. Combining frontend and backend with MERN Stack
2. Sending HTTP requests from React to Express
3. Handling responses and rendering data in React
4. Implementing CRUD operations in MERN Stack
5. Deploying MERN Stack application on a server

Week 5: Advanced Topics in MERN Stack

1. User authentication and authorization in MERN Stack
2. Managing state in React with Redux
3. Building scalable applications with MERN Stack
4. Implementing real-time features with WebSockets
5. Testing and debugging MERN Stack applications

Week 6 to Week 7 : Minor Project

1. Building a MERN Stack project from scratch
2. Integrating all concepts learned in the course
3. Designing and implementing a database schema
4. Deploying the project on a server
5. Presenting the project to the team

Week 8: Live Project Allocation