
MERN Stack Training / Internship Programme

Curriculum

1) Fundamentals

- a) HTML5 & CSS3
- b) JavaScript
- c) Project

2) Frontend with React

- a) Basics of ReactJS
 - i) React setup (Vite/CRA)
 - ii) JSX, Components, Props, State
 - iii) Event handling, conditional rendering, lists & keys
- b) **Advanced ReactJS**
 - i) Hooks (useState, useEffect, useContext, custom hooks)
 - ii) Forms & validation (Formik and yup)
 - iii) React Router for navigation (navigation, params, protected routes)
- c) **State Management**
 - i) Context API
 - ii) Redux basics (optional for deeper dive)

d) Project

3) Backend with Node.js & Express

- a) Node.js
 - i) Modules, npm, package.json
 - ii) File system, events, streams
- b) Express.js
 - i) Creating APIs, routing
 - ii) Middleware & error handling
 - iii) Authentication basics (JWT, bcrypt)



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4) Mongo DB

- a) CRUD, collections, indexes
- b) Mongoose ODM

- c) **Projects**
 - i) REST API for user registration & login
 - ii) CRUD Operation

5) Internship

- a) Live Project under Expert Guidance