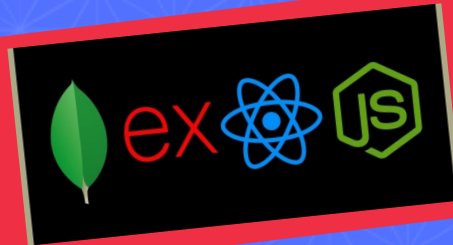




**FULL STACK
ACADEMY**

MERN



**FULL STACK
DEVELOPER**

COURSE DURATION: 3 MONTHS + PROJECT

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WWW.FULLSTACKACADEMY.IN

Full Stack Academy (FSA) founded by a team of Industry Veterans with a collective experience of over 25 years at major corporations such as Microsoft and Tech Mahindra. Full Stack Academy aims to transform fresh graduates into software professionals. We also aim to help existing software professionals upgrade their skills on cutting edge technologies.

WHY FULL STACK ACADEMY?

At Full Stack Academy, our focus is getting each and every candidate to secure jobs and build a successful career. Therefore, we are extremely particular about teaching only those topics and subjects that would secure a job rather than filling the course curriculum with useless stuff. We provide:

- Development Oriented Trainings
- Extreme Push for Discipline and Hardwork
- Full-Time and Part-Time Courses.

CLASS MODE

ONLINE / OFFLINE

TIMINGS

DAILY 1.5 HOURS, 5 DAYS A WEEK PROGRAM.

COURSE CONTENT

MODULE - REACT JS

Introduction to ES6

- ECAMASCRPT
- History
- Versions
- ES5
- ES6
- Classes and Methods
- Arrow functions and Spread Operator
- New features in ES6
- JSX
- Virtual DOM

Components

- Component driven development
- Components basics
- State
- Props
- Traditional Components
- ES6 Components
- Functional Components
- Class Components
- Synthetic Events

Introduction TO REACT

- What is React
- Why React
- Project setup
- Webpack
- Bundling and Minification
- Building React app

Single Page Application

- Introduction to SPA
- Container Components
- Presentational Components
- Routing
- Nested Routing

HTTP

- Fetching data from REST API
- Axios
- Fetch API
- Async Javascript
- Callbacks
- Promises
- Async and await

COURSE CONTENT

MODULE - REACT JS

Forms

- Developing Forms
- Posting data
- Validating form data
- Basic authentication
- Token authentication

Redux

- Introduction to redux
- Problem with current data flow
- Introduction to one way data flow
- Implementing redux pattern
- Reducers
- Pure functions
- Immutable data structures

Redux Advanced

- React Dev tools
- Performance monitoring
- Performance improvements
- Suppressing rerenders
- React Hooks
- Writing app without the use of classes

Packaging

- Minification
- Uglification
- Webpack
- Deploying to Cloud
- Deploying to Nginx
- Dockerizing React app

MODULE - NODE JS

Introduction to Node JS

- Introduction
- Event loop and Non blocking
- Asynchronous execution
- Callbacks
- Installation
- NPM
- Package.json
- Creating http server
- Serving requests
- Routing
- Nodemon

COURSE CONTENT

MODULE - NODE JS

Debugging

- Console.log
- Debugging using VS Code
- Debugging using Chrome

Creating REST API

- Introduction to REST
- Routing
- Controllers
- Models
- GET, POST, PUT and DELETE requests
- Paging, searching, and sorting data
- Using Postman to make post calls
- Basic Authentication
- JWT authentication
- CORS

Creating MVC Application

- Introduction
- Creating controllers
- Returning Views
- Mongoose
- Saving data to database

Express JS

- Introduction
- Installation
- Creating HTTP server
- Serving requests
- Routing
- Middlewares
- Creating middlewares

Templates

- Handlebars, EJS and Jade
- Installation
- Serving static pages
- Layouts
- Partial pages
- Helpers
- Creating custom helpers

Authentication

- Introduction to Authentication
- Passport Authentication
- Local Auth Strategy
- Signup and Login
- Handling sessions
- Cookies
- Authorization

COURSE CONTENT

MODULE - NODE JS

Testing

- Unit testing using Jest
- Integration testing
- API testing

Packaging and Deployment

- Introduction to AWS
- Deploying an app to AWS
- Deploying database to AWS
- Continuous Integration and Continuous Delivery (CI and CD)

MODULE - MONGO DB

Introduction to MongoDB

- Overview
- Installation
- MongoDB as service
- Creating database
- Collections

Operations

- Read
- Insert
- Update
- Delete
- Count
- Sort
- Limit

Operators

- \$eq
- \$ne
- \$lt
- \$gt
- \$lte
- \$gte
- \$in

Advanced

- Indexes
- Creating Indexes
- Dropping Indexes
- Designing database
- Aggregations and Projections
- Robomongo

Administration

- Db backup
- Db restore
- User Management
- Import and Export



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