

Hands-On MERN

MongoDB | ExpressJS | ReactJS | NodeJS

Full Stack Web Application Development

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M.Tech | Data Science

Technology Stack

HTML

CSS

Bootstrap

JavaScript

ReactJS

MongoDB

Node

Express

GIT - version control

Deployment

Setup Workspace

1. Install Python
2. Create environment
3. Install Django 3

HTML

1. HTML tags
2. Forms
3. Colors
4. Layouts
5. Add styles
6. Classes and IDs

CSS

1. Colors
2. Background
3. Margins, border, and padding
4. Text
5. Pseudo Classes
6. Transitions
7. Links
8. Navigation
9. Dropdown

Bootstrap

1. Containers
2. Grid Basics
3. Jumbotron
4. Buttons
5. Badges
6. Cards
7. Navigation

JavaScript

1. Basic Syntax
2. Variables
3. Operators
4. Data Type
5. Functions
6. Conditional Statements
7. For Loop
8. Events
9. Object Functions
10. Object Template Literals
11. Form Validations
12. Projects

ReactJS

1. Understanding Why React
2. React Components
3. React State
4. React Hooks
5. API calls using React
6. Projects
 - a. Building GitHub Card App
 - b. Building Star Match Game
 - c. Movie List Application with JSON
 - d. Progressive Web Apps

Development Environment for MERN Stack

1. Workspace setup
2. Editors
3. Developer Tool In Chrome
4. MongoDB Setup
5. Node Setup
6. npm modules for MERN stack
7. Git Setup

Building Backend and Frontend

1. MongoDB, Express, and Node
 - a. CRUD operations
 - b. Handling HTTP requests with Express Server
 - c. APIs Integration
 - d. Auth with JWT(JSON Web Token)
2. Adding Frontend with React
 - a. Signup, Sign-in, User Profile.

- b. Navigation
- c. Server-Side Rendering
- d. Understanding MERN Skeleton

FullStack Projects

1. Social Media Application with MERN
 - a. User profile
 - b. User following functionality
 - c. Posting messages with photos
 - d. Liking Commenting on posts
 - e. News Feeds
2. Online Marketplace
 - a. Seller account setup
 - b. Shop Management
 - c. Product management
 - d. Search functionality
 - e. Cart
 - f. Payment integration with Stripe
 - g. Orders
3. Media Streaming Application
 - a. Upload functionality with MongoDB and GridFS
 - b. Streaming from GridFS to the media player.
 - c. Play next
 - d. Autoplay
 - e. Improving SEO (Search Engine Optimization)

Following MERN Best Practices

Git - Version Control

1. Initiate Repository
2. Commit
3. Pull
4. Push
5. Controlling end to end project
6. Working with Your team using Git Branches

Deployment and Live Projects

Materials & Resources

1. PDFs
2. Booklets
3. Code files
4. Useful links
5. Session Recordings

**Join the Full Stack Dev Community WhatsApp
Group here:**

<https://chat.whatsapp.com/CEthikwvNgh5R2jSXDgv4X>

Connect with me on these platforms:

LinkedIn : <https://www.linkedin.com/in/hemansnation/>

GitHub : <https://github.com/hemansnation>

Instagram : <https://www.instagram.com/masterdexter.ai/>

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