

MERN Stack

Module -1(JS basics)

- Introduction to web
- Browser Wars
- DOM tree, CSSOM tree.
- Browser internals HTML parser , CSS parser , JS engine
- Layout engine or rendering engine JavaScript
- V8 engine internals
- IP MAC address Ports & Evolution of HTTP
- How the Server looks at the URL
- Request & Response cycle
- HTML Browser view Debugger, Inspect, Responsive View
- Browser js vs Node js
- Data types
- Copy by value and Copy by reference
- Window & document object
- Array and JSON iteration
- XMLHTTPRequest
- Hoisting & scope
- function & return keyword
- types of function
- MRF array method
- error handling
- ES5 vs ES6
 - o OOP, this, rest & spread operator
 - Array & object destructuring
 - Arrow functions

Module -2 (HTML, CSS, Bootstrap)

• HTML

- O What is HTML?
- Basic tags in HTML?
- o Inline vs block element
- o div vs section vs article
- HTML forms & Form input element with its attributes and HTML form submit

CSS

- What is CSS?
- property vs value
- o Selector:- tag vs class vs id
- Intro to pseudo-classes (link,visited,hover,active)
- parent inherit
- o Box model margin, padding, border
- o Flex display, direction, wrap, flex-flow, justify-content, align-content
- Position property static, relative, absolute, fixed, sticky
- o overflow property hidden, visible, scroll, auto
- box-shadow property
- Media query
- Use of Font & icons

Bootstrap

- What is Bootstrap?
- Layout, Container, grid system, gutters
- Responsive web design

Module -3 (DOM)

- DOM Manipulation
- Document object and Window object
- Method in document object
 - createElement()
 - setAttribute()
 - o innerHTML vs innerText
 - append() vs appendChild()
 - getElementById() vs querySelector() vs querySelectorAll()
- Method in Window object
 - prompt() vs alert() vs conform()
 - setTimeout() vs setInterval()
- Events Change CSS through JavaScript
- Cookies & session, local storage

Module -4 (Advance JS)

- Callback Event loop
- Promise
 - What are the states in the promise?
 - Promise chaining
 - Fetch API
- Async/Await

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Mock Interview-1

Hackathon -1

Module -5 (Reactis)

- ReactJS introduction
- Components, states, props, lifecycle
- Conditionals, hooks, router, Axios
- Redux

Module -6 (Database & Nodejs)

- MySQL & MongoDB
- NodeJS Connecting DB with MongoDB
- Routes, Authentication Middleware JWT
- Custom middleware
- The student should do a complete backend application

Hackathon - 2

Mock interview - 2

Fullstack project demonstration

Module -7

Data Structure & Algorithms

Module -8

- System Design
- AWS

Placement preparation & capstone project development (1 to 2 weeks)

In between add-on sessions like alumni meet, cracking interviews, personality development, webinars

Final Mock interview - 3 & Capstone project review

PLACEMENT READY / HANDOVER

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