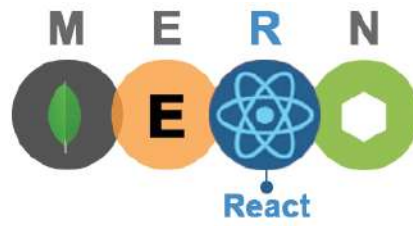


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MEAN MERN

Syllabus

1

HTML 5

- *Introduction*
- *Basics*
- *Elements*
- *Attributes*
- *Headings*
- *Paragraphs*
- *Images*
- *Block & Inline elements*
- *Tables*
- *Header, Section & Footer*
- *Forms*

2

CSS 3

- *Introduction*
- *Basics*
- *Selectors*
- *Colors*
- *Background*
- *Border, margins & padding*
- *Box model*
- *Fonts*
- *Pseudo elements / classes*
- *Display property*
- *Position property*
- *Float and clear*
- *Flex box*
- *Grid*
- *Media Queries*
- *Responsive Web Design*
- *SASS*

3

Bootstrap

- *Introduction*
- *Installation*
- *Containers*
- *Buttons*
- *Grid*
- *Tables*
- *Form*
- *Carousel*
- *Navbar*
- *Modal*
- *Utilities*

4

Javascript jQuery

- JavaScript Introduction, Version history
- Syntax, Variables, Data types, let, const
- alert(), confirm() & prompt()
- Operators, if else & switch, Loops, Debugging, Hoisting
- Functions, Strings, Arrays, Classes and Objects
- this keyword, Arrow functions
- Asynchronous
- DOM
- Basic Validations
- External Javascript, Minification Etc.
- Functional Programming - I
- Functional Programming - II
- Window Object | Interval, Timeout, Open, Close Methods
- DOM Manipulation
- Navigator | JSON vs XML
- ECMA 6 Features
- Callback & Promises
- Async & Await
- jQuery Introduction
- Installation/Usage
- Selectors
- Events

5

Typescript

- Problems using JavaScript / ECMA Script
- Typescript Module System
- Installing Typescript using NPM
- Language Fundamentals and Features
- OOPS concepts in Typescript
- Strong vs Weak Type checking
- Creating Classes & Objects
- Const, Let vs Var
- Inheritance using Classes and Interfaces
- Optional Parameters
- Generics
- Arrow Functions and Callbacks
- Maps and Sets
- Debugging & Executing Typescript files
- Using 3rd-party libraries using NPM and Typescript

6

Angular 17

- *Angular features and elements*
- *Single Page Apps vs Conventional Web Applications*
- *Angular CLI and setup*
- *Angular Components*
- *Angular Bindings*
- *Angular Forms*
- *Angular Template Driven Forms*
- *Angular Reactive Forms*
- *Services and Dependency Injection*
- *Pipes*
- *Directives*
- *Routing*
- *RXJS: Promises and Observables*
- *Inter-Component Communication*
- *Testing Angular Applications*
- *Deploying Angular Applications*

7

Node.js

- *Introduction to the Node.js Framework*
- *Installing Node.js and using Typescript*
- *Overview of Blocking vs Non-Blocking IO*
- *Event Handling Loop in Node.js*
- *Using Node.js to execute scripts*
- *The Node Package Manager - npm*
- *The package.json configuration file*
- *Using & compiling Typescript for Node.js*
- *Working with the HTTP protocol*
- *Building an HTTP Server*
- *Accepting a request*
- *Rendering a response*
- *Using Representational State Transfer Protocol (REST)*
- *Introduction to Web Services*
- *Introduction to REST Full W/S*

8

Express.js

- *Introduction to the Express.js Framework*
- *Installing the Express package*
- *Routing*
- *HTTP Methods (Get, Put, Post, Delete)*
- *URL Building*
- *Body-Parser to read data from incoming requests*
- *Cookies*
- *Sessions*
- *Authentication*
- *Using CORS*
- *RESTful APIs*
- *Using Middleware*
- *Express & DB Integration*
- *Using TypeScript with Express*

9

MongoDB

- *Introduction to the NoSQL Databases*
- *Data Modelling*
- *Create & Drop Database*
- *Create & Drop Collection*
- *Data Types*
- *Insert Document*
- *Query Document*
- *Update Document*
- *Delete Document*
- *Projection*
- *Limiting Records*
- *Sorting Records*
- *MongoDB – Indexing*
- *Object Id*
- *Aggregation and Map-Reduce*

10

ReactJs

- *What is ReactJs and why use it?*
- *React Fundamentals*
- *React Components*
- *Props & State*
- *Event Handling*
- *Routing in React*
- *React Hooks*
- *CRUD Application using React*
- *Deploying React Application*

11

Redux

- *What is the FLUX architecture and why use it?*
- *Store for managing Application State and Event Broadcasting*
- *Action for Creating Action, Dispatching Action, Action Binders*
- *Reducer for Creating and combining reducers*
- *Injecting Redux Store using Providers*

12

Projects

- *Project 2 (Basics)*
- *Project 2 (Angular)*
- *Project 3 (React+Redux)*

13

Aptitude

- Averages and ages
- Percentages
- Ratio and Proportion
- Profit and Loss
- Partnership
- Speed, distance, and time
- Trains
- Boats and Streams
- Time and Work
- Pipes and Cistern
- Permutations and Combinations
- Probability
- Simple Interest
- Compound Interest
- Numbers and Divisibility Rules
- Allegations and mixtures
- Analytical Reasoning
- Linear sitting arrangement
- Circular sitting arrangement
- Parallel sitting arrangement
- Blood Relation
- Distance and Direction
- Coding and Decoding

14

Softskills

- Introduction to Communication Skills
- Confidence Building and Public Speaking
- English Grammar
- Business English
- Advanced Communication Skills
- Group Discussion
- Resume Building and Cover Letter
- Interview Preparation
- Email Writing
- Dressing / Attire / Grooming
- Public Speaking and Presentation Skills
- Interpersonal Skills and Assertiveness
- Time Management
- Stress Management
- One to One Counseling Session for needy candidates

15

Operating Systems

- Operating Systems an Overview
- Types of Operating Systems
- Components of an Operating System
- An overview of File Systems
- Process and Memory Management
- User Management
- Operating System Security
- Device Drivers
- Installing an OS using Virtual Box
- Operating Systems in Cloud

16

Software Engineering

- *Introduction to Software Engineering*
- *Software Development Life Cycle*
- *SDLC Models*
- *Agile – SCRUM*
- *Requirement Analysis*
- *Project Management*
- *Design*
- *Introduction to UML*
- *Coding / Implementation*
- *Testing*
- *DevOps*

17

Git & GitHub

- *Introduction*
- *Installation & Lifecycle*
- *Create & clone operation*
- *Perform, Review & commit changes*
- *Push, update, stash, move operation*
- *What is GitHub?*
- *Create a Repository*
- *Create a Branch*
- *Make a Commit*
- *Open a Pull Request*


18

Credit System

- *Mock Interviews (Module wise)*
- *Technical quizzes*
- *Machine Test*
- *Project Presentations*
- *Assignments*

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