

11 AM 11-03-2024

MERN Stack Realtime Project

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2 months - 1:30h

Prerequisites to join this course

- a. Basic idea on HTML, CSS, JavaScript
- c. Basic idea on React
- d. Basic idea on node

Content:

1. Discuss Required Concepts in :
 - a. HTML
 - b. CSS
 - c. JavaScript
2. Discuss Required Concepts to develop react project(front end) :
 - a. React
3. Discuss Required Concepts for Backend Development:
 - a. node js
 - b. REST API
 - c. GraphQL
3. Discuss about Database
 - a. MongoDB
4. Project Documentation , Figma Design document
5. Setup(React, node(REST and GraphQL), MongoDB
6. Real-Time Project
 - a. React as frontend
 - b. Node with express
 - c. JIRA
 - d. GIT
7. Testing
8. Deployment
 - a. AWS, Vercel
9. Performance

10. Security

Daily Base Activities

HTML And CSS

Day 1

HTML Interview Questions
Web Page using HTML
Assignment

Day 2

CSS Concepts(How to apply style, Box model, Selector)
Interview Questions
Make look and feel that above above web page
Assignment

Day 3

CSS Concepts (positions, flex, grid, media queries)
Interview Questions
Deploy above page - Godaddy
Assignment

Day 4:

Question and Answers on HTML and CSS
Assignment

JavaScript starts

Day 5:

Variable and function
Assignment - JS program -1
Notes -

Dat 6:

document, window, get Reference, events, event bubbling, event Capturing
live program
Assignment - JS program -2
Notes -

Day 7

setTimeout, setInterval, clearTimeout, clearInterval, Debouncing, Throttling
Program -
Assignment - JS program -3
Notes -

Day 8

OOPS(class, object, inheritance, overloading, overriding, abstraction,encapslation)
Program -
Assignment - JS program -4
Notes -

Day 9

Browser Storages - localStorage, sessionStorage , Cookies

Program -

Assignment - JS program -5

Notes -

Day 10

BOM - Browser Object Model- location, screen, History, navigator

Program -

Assignment - JS program - 6

Notes -

Day 11

Exception Handling

Program -

Assignment - JS program - 7

Notes -

Day 12

Callbacks

Program -

Assignment - JS program - 8

Notes -

Day 13

Promises

Program -

Assignment - JS program - 9

Notes -

Day 14

Question and Answers

Assignment - JS program - 10

Notes -

Day 15

Observables

Program -

Assignment - JS program - 11

Notes -

Day 16

AJAX - XMLHttpRequest, fetch

Program -

Assignment - JS program - 12

Notes -

Day 17

JSON, Array, String

Program -

Assignment - JS program - 13

Notes -

Day 18

Authentication, Shoot applications
Program -
Assignment - JS program - 14
Notes -

Day 19

functional Components, useState
Program
Assignment - JS program - 15
Notes -

Day 20

Communication b/w components
Program
Assignment - JS program - 16
Notes -

Day 21

useEffect (Mounting, updating , unmountng)
Program
Assignment - JS program - 17
Notes -

Day 22

useContext, useRef
Program
Assignment - JS program - 18
Notes -

Day 23

List and Keys
Program
Assignment - JS program - 19
Notes -

Day 24

Reusable components
Program
Assignment - JS program - 20
Notes -

Day 25

AJAX
Program
Assignment - JS program - 21

Notes -

Day 26

HOC, HOF, useMemo, useCallback, useTransition, custom
Program
Assignment - JS program - 22
Notes -

Day 27

Redux
Program
Assignment - JS program - 23
Notes -

Day 28

useReducer
Program
Assignment - JS program - 24
Notes -

Day 29

Redux-saga
Program
Assignment - JS program - 25
Notes -

Day 30

JEST/RTL
Program
Assignment - JS program - 26
Notes -

Day 31

Playwright
Program
Assignment - JS program - 27
Notes -

Day 32:

Create one web application using React - animation
Assignment - JS program - 28
Notes -

Day 33:

Work on above application
Assignment - JS program - 29
Notes -

Day 34:

Complete above application
Deploy to Vercel
Assignment - JS program - 30
Notes -

Below Next 30days Plan

Every day - 1 react program(write) and 1 react program(practice)

Documentation

Figma

JIRA

GIT

above one take **3 days** time

Environment Creation

client App - react with next

server App - node with express

Database - MongoDB

above one take **6 days** time

Client app -react

Server app -node

Database - mongo DB

Test cases - Jest / RTL

Automation - PlayWright

Deployment -

client-vercel

server- AWS

take **20days** to complete the project both client and server applications

Graph QL

DML operation

client- react with GraphQL(apollo Client, react query, axios)

server - node with GrahpQL

Database - MongoDB

take **5days** to complete the project both client and server applications

Softwares need to install:

1. Visual Studio Code : <https://code.visualstudio.com/>
2. git : <https://git-scm.com/downloads>
3. DesktopGit : <https://desktop.github.com/>
4. MongoDB : <https://www.mongodb.com/try/download/community>
5. MongoDB compass : <https://www.mongodb.com/products/compass>
6. Node s/w or nvm : <https://nodejs.org/en/download> or <https://github.com/coreybutler/nvmwindows/releases>
7. postman : <https://www.postman.com/downloads/>

Create Accounts:

1. <https://github.com/>
2. <https://www.vercel.com/>
3. <https://mongodb.com/>
4. <https://aws.amazon.com/>
5. <https://www.npmjs.com/>

Learning Websites:

1. www.ujavakit.com
2. www.kalamschools.com
3. www.yourpost.in
4. www.writetest.in

Email:

chenchala.srinu@gmail.com

Videos:

Day-1 <https://youtu.be/ZoS4xGSxn-E>

Day-2 <https://youtu.be/Yyut179kteE>

Day-3 <https://youtu.be/zaRiNQPZzCI>

Day-4 <https://youtu.be/UEBZVRs82ng>

Day-5 <https://youtu.be/P6J3vDtihZM>
