



PrepBytes

Frontend Development React Certification Program





CLASS SCHEDULE:

The will be recorded lectures for every topic and there will be live project discussions with expert mentors.

DETAILED SYLLABUS

1. INTRO TO WEB DEVELOPMENT/ COURSE INTRO

- i. What is web development?
- ii. How websites work?
- iii. Advantages of learning web development
- iv. History of web development
- v. Course and Projects Overview

2. HTML – PART 1

- i. What is HTML?
- ii. Structure of Webpage
- iii. HTML Tags
- iv. Adding and formatting texts, title, paragraph, body
- v. Lists – Ordered/Unordered
- vi. Images
- vii. Forms

3. HTML – PART 2 | CSS – PART 1

- i. Links
- ii. Tables
- iii. Iframes, Videos
- iv. Anchor tags
- v. HTML Divs
- vi. CSS Introduction
- vii. Inline vs Internal vs External styling
- viii. CSS Display
- ix. Project 1 - To-do App – Frontend using basic HTML/CSS



4. CSS- PART 2 | ADVANCED CSS – PART 1

- i. CSS Backgrounds, Borders, Margins, Padding
- ii. CSS Font Styling
- iii. Stylings Lists
- iv. Styling Tables, Forms
- v. Gradients
- vi. Font Awesome

5. ADVANCED CSS – PART 2

- i. Tool tips
- ii. Buttons
- iii. Transitions, Transformation, Animations
- iv. Box sizing
- v. Flex
- vi. Grid
- vii. Project 1 - To-do App – Enhance Frontend using CSS

6. PROJECT BUILDING

- i. Responsive Media Queries
- ii. Discuss TO-DO App
- iii. Project 2 - Blog – Add blog frontend using HTML/CSS

7. BOOTSTRAP – PART 1

- i. Bootstrap containers
- ii. Tables, Images, Colors
- iii. Alerts, Buttons
- iv. Spinners, Cards

8. BOOTSTRAP – PART 2

- i. Pagination, Drop Down
- ii. Carousel
- iii. To-do App – Develop To-do App Frontend using Bootstrap
- iv. GitHub Overview



9. JAVASCRIPT – PART 1

- i. Introduction to JavaScript
- ii. Variables, scoping, Data type
- iii. Strings and Numbers
- iv. Operators and loops
- v. Functions
- vi. Project 1 – Add Functionalities to To-do App

10. JAVASCRIPT – PART 2 (DATA STRUCTURES)

- i. Arrays
- ii. Linked List
- iii. Stacks
- iv. Queues
- v. Maps
- vi. Hashing

11. JAVASCRIPT – PART 3

- i. Understanding and working with DOM
- ii. Developer tools in Browsers
- iii. Project 2 – Add Functionalities to Blog

12. JAVASCRIPT – PART 4

- i. Prototypes
- ii. Closures
- iii. Local Storage
- iv. jQuery
- v. Promises

13. JAVASCRIPT – PART 5

- i. ES5 vs Es6 vs Es7
- ii. Event loop in JavaScript

14. REACT – PART 1

- i. React Intro



- ii. Install node
- iii. Create an app using create-react-app
- iv. Understanding basics of react app
- v. Understanding JSX
- vi. Understanding virtual DOMS, Single page apps

15. REACT – PART 2

- i. React Lifecycle
- ii. States
- iii. Class components vs functions components
- iv. Event handling
- v. Props
- vi. Building a basic Forms using React
- vii. Project 4 – Build Blog using React

16. REACT – PART 3

- i. Routes
- ii. Conditional Rendering
- iii. Pure Components
- iv. High Order components
- v. Controlled vs Uncontrolled components

17. REACT – PART 4

- i. Redux
- ii. Babel, webpack
- iii. Add Redux in a Project and build using webpack

18. REACT – PART 5

- i. Creating a Mock API Server
- ii. Axios
- iii. Server-Side Rendering
- iv. Project 4 - Fetch Data in Blog from an API



19. REACT.JS – PART 6

- i. SASS Overview

20. CODE REVIEW + DEPLOYMENT

- i. Tools for code review
- ii. Standard coding conventions
- iii. Deploy using Netlify
- iv. Get code reviewed by Software developers and deploy projects

21. MAJOR PROJECT ASSIGNMENT (2 WEEKS)

- i. Shopping App PRD sharing
- ii. Online Assessment App PRD sharing
- iii. Timeline Discussion (Every project in tech companies have timelines)
- iv. Weekly progress discussions

CONTACT DETAILS

Email: contact@prepbytes.com

Phone: 8448446601

Website: www.prepbytes.com