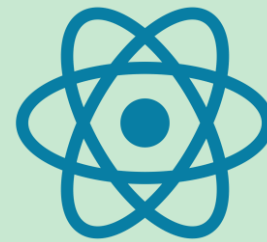MOUNT
STACK

React 💕 Redux

Create Industry Standard Projects

শূন্য থেকে জব রেডি কোর্স

React

Redux

Total Class: 30

Class Duration: 2-3 Hours
Total: 70-90 Hours

3 Lectures / week

Friday, Sunday, Tuesday

Project: 7+

Assignment: 5

Section No: 01   **Total Class: 02**

Vanilla JS – DOM Manipulation   **Total Hours: 06**

Day – 01
Introduction to DOM Exploring basics of vanilla JavaScript to make application from scratch.

Day – 02
Project: 1 A CRUD application of contact saving. Understanding the process of development.

Section No: 02   **Total Class: 03**

Kick Start With ReactJS   **Total Hours: 09**

Day – 03	**Day – 04**	**Day – 05**
React Overview	**Build UI Interface**	**Project - 2**
• How React works? • Virtual DOM & Reconciliation • Explore JSX & Logic in JSX • Component & Reusability of component • Props	• Explore React Component Tree • Holy Grid Layout – Component Breakdown • Prop Drilling in React • Apply Modular CSS • Assignment 1: Design a website layout	• Create a Portfolio website • Integrate TailwindCSS in React • Deploy project on Netlify

Section No: 03   **Total Class: 03**

Explore States & Events   **Total Hours: 09**

Day – 06	Day – 07	Day – 08

Understand State & Events
 	
 • States in React
 • useState Hook
 • Event handling in React
 • Two-way data binding
 • Rendering List
 • State lifting in React
 • **Project 3:**
    Color Manager Application
	Project Expansion
	
	 • Add category section for product
	 • Understanding data format for the new requirement
	 • Explore React-Select Library
	 • Assignment 2:
	    Design pricing page for subscription
		React Life Cycle
		
		 • useEffect Hook
		 • Component Life Cycle
		 • **Project 4:**
		    Ecommerce **item-counter** feature
		 • Assignment 3:
		    Write article /Note on useState & useEffect hook

Advance Concepts

Day – 09	Day – 10

Multipage Routing
 	
 • What is SPA?
 • React Router DOM
 • Route Protection
	Mastering Recursion
	
	 • What is Recursion?
	 • How Recursion works?
	 • When should we use Recursion?
	 • Solve Recursive Problems
	 • **Project 5:**
	    Dynamic Nested Menu
	    (N-Levels)

Section No: 04   **Total Class: 12**

Advance Concepts   **Total Hours: 36**

Day – 11	Day – 12	Day – 13
Form handling • Access DOM – useRef Hook • Explore React-Hook-Form Library • Form Validation & Error Handling • Dynamic Form Building	**Data Grid** • Understanding CMS (Content Management System) • Create Data-Grid using React-Table Library • Image preview & Upload to Cloudinary	**Data Grid – Part 2** Implement Searching, Sorting, Filtering & Pagination in data grid.

Section No: 04   **Total Class: 12**

Advance Concepts   **Total Hours: 36**

Day – 14	Day – (15 to 18)	Day – 19

REDUX in Action
 	
• Understanding Redux workflow
• Create a simple Redux store & update UI
• Dispatching function & Subscribing state
• Assignment 4:
    Write article on Redux
	Project 6
	
	Blog App – Create website + CMS
	• Article & Comment System
	• Article CRUD Operation
	• Searching, Sorting, Filtering & Pagination feature in CMS
	• Add category section for articles
	• Exploring a Rich-Text-editor (draft.js)
	• Validation & Error handling
	• Toast messages
	
	Libraries:
	React, Redux, React-Table, React-Hook-Form, React-Router, Draft.js, TailwindCSS
		• Higher Order Component
		• Render Props
		• Error Boundaries
		• Lazy Loading
		• UseReducer Hook
		  – Manage Complex State

Section No: 04   **Total Class: 12**

Advance Concepts   **Total Hours: 36**

Day – 20
More Hooks & Portal • Custom Hook • useCallback Hook • useMemo Hook • React Portal

Day – 21
• Context API in Action • Exploring React-Query Library • Data Caching in Frontend • API Calling to Server

Section No: 04   **Total Class: 12**

Advance Concepts   **Total Hours: 36**

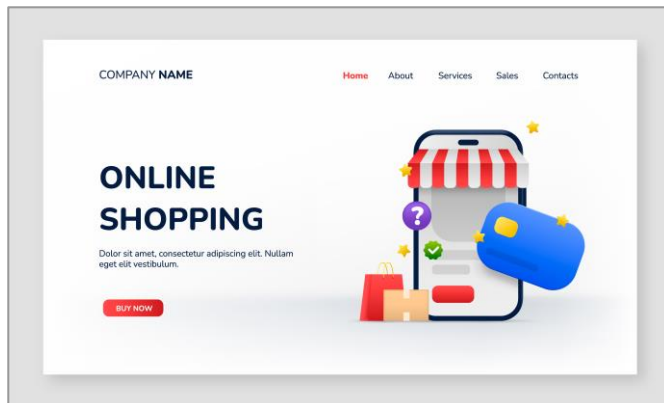| Day – 22	Day – 23
Docker • What is Container • Environment Setup • Dockerize React App • Port binding • Assignment 5: Write Article on Docker	RTK Query

Section No: 05
Final Project

Total Class: 07

Total Hours: 21

E-Commerce
(Website + CMS)

Day: 24 to **30**

Core Features

- User Registration & Login
- Product CMS
- User can give Rating on product
- Category Based Product
- Searching, Sorting & Filtering in website
- Order Management CMS
- Add to cart system

Libraries:
React, RTK Query, React-Table, React-Router, Draft.js, TailwindCSS, React-Hook-Form

Note: Backend code will be given