

ReactJS & Redux Training Material

No.	Tasks	Deadline
1.	Learn ES6 and Typescript <ul style="list-style-type: none">- Const and let keyword- Classes- Arrow functions- Template strings- Array functions (map, filter, forEach etc)- Destructuring- Operators (rest, spread, ternary)- Promises <ul style="list-style-type: none">• https://www.youtube.com/watch?v=n3zrCxB8sj8&list=PLC3y8-rFHvwhI0V5mE9Vu6Nm-nap8EcjV	3 days
2.	Github commands <ul style="list-style-type: none">• https://github.com/joshnh/Git-Commands	1 day
3 .	Getting started with React <ul style="list-style-type: none">• https://blog.glitch.com/post/react-starter-kit• https://www.taniarascia.com/getting-started-with-react/#what-is-react• https://www.taniarascia.com/getting-started-with-react/#create-react-app <p>- Create a "Hello React" program</p>	1 day
4.	Class components <ul style="list-style-type: none">- Props and States- setState, constructors- Lifecycle methods <ul style="list-style-type: none">• https://www.taniarascia.com/getting-started-with-react/#components <p>- Create a Class Component</p> <p>- Create a Component Constructor</p>	3 days

	<ul style="list-style-type: none"> - Create a variable named "carname" and send it to the Car component using Props - Use Props in the Constructor - Creating the state Object and Specify the state object in the constructor Method 	
5.	Submitting Form Data <ul style="list-style-type: none"> • https://www.taniarascia.com/getting-started-with-react/#submitting-form-data - Add a form that allows users to enter their name - Add an event handler in the onChange attribute, and let the event handler update the state object 	1 day
	Task : Implement meme generator <ul style="list-style-type: none"> - Add title - Add comment - Add image - Show meme • https://scrimba.com/learn/learnreact/section-intro-figma-file-coeca4c67b87cf73d3fb64da5 	1 day
6.	Functional components <ul style="list-style-type: none"> - Hooks - Lifecycle hooks (useState, useEffect, etc) • https://reactjs.org/docs/hooks-overview.html • https://reactjs.org/docs/hooks-reference.html (useMemo, useContext, useCallback, useRef) • https://www.taniarascia.com/crud-app-in-react-with-hooks/ - Difference between class components and functional components • https://www.geeksforgeeks.org/differences-between-functional-components-and-class-components-in-react/ 	3 days

	Task : Implement Notes App <ul style="list-style-type: none"> - Add notes - Delete notes - View notes • https://scrimba.com/learn/learnreact/notes-app-intro-coea14f76b39cf1bfb7c86de4 	1 day
7.	Data fetching <ul style="list-style-type: none"> - Fetch API data using class components and functional components • https://blog.logrocket.com/patterns-for-data-fetching-in-react-981ced7e5c56/ - Use an API to fetch user name, email, phone, website and display it on page 	2 days
	Task : Implement Weather app <ul style="list-style-type: none"> - Fetch weather API - Take input for city - Display the temperature and humidity of the city, date and day. • https://www.freecodecamp.org/news/learn-react-by-building-a-weather-app/#:~:text=To%20create%20our%20react%20application,folder%20and%20type%20npm%20start%20. 	1 day
8.	Routing <ul style="list-style-type: none"> - Learn about useNavigate, useLocation, useParams hooks for navigation • https://reactrouter.com/docs/en/v6/getting-started/overview 	3 days
	Task : Implement below functionalities : <ul style="list-style-type: none"> - Create sign up page with email and password field. - Store data in local storage - Create sign in page with email and password field. - Redirect user to dashboard after successful login. 	2 days

	<ul style="list-style-type: none"> - Display error messages for invalid credentials. - Create a dashboard similar to this design which includes a side navbar and main content section : https://prnt.sc/26ekgv6 - When clicking on page 1, 2 and 3, it should redirect to a specific page and render its content (which can be static or you can use API). 	
9.	Learn designing with MaterialUI <ul style="list-style-type: none"> • https://mui.com/getting-started/usage/ • https://www.youtube.com/playlist?list=PL4cUxeGkcC9gixLvV4VEkZ6H6H4yWuS58 	5 days
10.	Building and Deploying a React App <ul style="list-style-type: none"> • https://www.taniarascia.com/getting-started-with-react/#building-a-react-app 	2 days
11.	Getting started with Redux https://redux.js.org/introduction/getting-started#installation Create a React Redux App & Install Redux Core https://redux.js.org/introduction/getting-started#create-a-react-redux-app Basic Example & Redux Toolkit Example https://redux.js.org/introduction/getting-started#basic-example	1 day
12.	What is Redux? https://redux.js.org/tutorials/essentials/part-1-overview-concepts#what-is-redux Redux Libraries and Tools https://redux.js.org/tutorials/essentials/part-1-overview-concepts#redux-libraries-and-tools Redux Terms and Concepts (State Management/ Immutability/ Redux Application Data Flow) https://redux.js.org/tutorials/essentials/part-1-overview-concepts#redux-terms-and-concepts <i>Other learning resources:</i> https://redux.js.org/introduction/learning-resources	2 days

13.	Examples https://redux.js.org/introduction/examples	7 days
		40 days