

1 REACT TRAINING MODULE

1.1 LEARNING OBJECTIVE

- What is create react app
- JSX
- How JSX is compiled
- Virtual DOM
- Component
 - What is component
 - Class Based Components
 - Life Cycle Methods in class components
 - Most used life cycle methods
- State
 - How state is created
 - State Updating
 - Render HTML using state
- Props
 - Sending and receiving Props
 - Default props
- Render Method
 - Optimize rendering
 - Why Keys
 - Array as children
 - Function as children
- Ref
 - Why ref
 - How to avoid re rendering and targeting DOM elements using refs
- Forms
 - Controlled and uncontrolled components
- API Request
 - Axios
- Hooks
 - Functional Components
 - Why hooks?
 - Use State, use Effect, use Reducer etc. all the hooks
 - Creating Custom Hooks
- Routing
 - How navigation works in react router.
 - Detecting and updating route
 - Static vs dynamic routes
- Context APIS
 - How to manage application state

- How to pass data among components
- React Dev tools
- How to integrate and use third party libraries
 - Ex: React Pagination, React Table

1.2 LEARNING RESOURCES

- Video Format
- Text Format

1.3 REFERENCES

- <https://www.tutorialspoint.com/reactjs/index.htm>
- <https://www.codecademy.com/learn/react-101>
- <https://reactpatterns.com/>

1.4 ASSIGNMENT

- Assignment is within the course
 - <https://www.udemy.com/course/react-the-complete-guide-incl-redux/>
 - Same Assignment is used for redux too

1.5 EVALUATION CRITERIA

- Evaluate the assignment