

React and React Native

1. Introduction to React

- What is React?
- Setting up the Development Environment
- Hello react
- Custom Config
- Full Stack Architecture

2. ES6 Refresher

- Introduction
- Let vs Var vs Const
- Objects
- The “this” Keyword
- Binding this
- Arrow function
- Arrow functions and this
- Array map method
- Object Destructuring
- Spread Operator
- Classes
- Inheritance
- Modules
- Named and Default Exports

3. Components

- Introduction
- Setting up the project
- Your First React Component
- Embedding Expressions
- Setting Attributes

- Rendering Classes Dynamically
- Rendering Lists
- Conditional Rendering
- Handling Event
- Binding Event Handlers
- Updating the State
- What happens when State change
- Passing Event Arguments

4. Composing Components

- Introduction
- Composing Components
- Passing Data to Components
- Passing Children
- Debugging React App
- Props vs State
- Raising and Handling Events
- Updating the State
- Single Sources of truths
- Removing the Local State
- Multiple Component in Sync
- Lifting the State Up
- Stateless Function Components
- Destructing Arguments
- Lifecycle Hooks
- Mounting Phase
- Updating Phase
- Unmounting Phase

5. Pagination, Filtering and Sorting

- Introduction
- Pagination – Component Interface
- Pagination – Display Pages
- Pagination – Handling Page Changes
- Pagination – Paginating Data
- Pagination – Type Checking with Prototypes
- Filtering – Component Interface
- Filtering – Display Items
- Filtering – Default Props
- Filtering – Handling Selection
- Filtering – Implementing Filtering
- Sorting – Extracting
- Sorting – Raising Sort Event
- Sorting – Implementing Sorting

6. Routing

- Introduction
- Setup
- Adding Routing
- Switch
- Link
- Route props
- Passing Props
- Route parameters
- Optional parameters
- Query String parameters
- Redirects
- Programmatic Navigation
- Nested Routing

- Adding React Router
- Adding Routes

7. Forms

- Introduction
- Building a Bootstrap Form
- Handling Form Submission
- Refs
- Controlled Elements
- Handling Multiple Inputs
- Common Error
- Extracting a Reusable Input
- Validation
- A Basic Validation Implementation
- Displaying Validation Errors
- Validation on Change
- JOI
- Validating a Form using JOI
- Validating a Field using JOI

8. Calling Backend Services

- Introduction
- JSON Placeholder
- HTTP clients
- Getting Data
- Creating Data
- Lifecycle of a Request
- Updating Data
- Deleting data
- Optimistic vs Pessimistic Updated
- Expected vs Unexpected Errors

- Handling Unexpected Errors Globally
- Extracting a Reusable Http Service
- Extracting a Config Module
- Displaying Toast Notification

React Native Apps

1. Core Concepts

- React Native – Overview
- React Native – Environment Setup
- React Native – App
- React Native – State
- React Native – Props
- React Native – Styling
- React Native – Flexbox
- React Native – List View
- React Native – Text Input
- React Native – Scroll View
- React Native – Images
- React Native- HTTP
- React Native – Buttons
- React Native- Animation
- React Native – Router
- React Native- Running iOS
- React Native- Running Android

2.Components and APIs

- React Native- View
- React Native – Web View
- React Native – Modal
- React Native – Activity Indicator

- React Native – Picker
- React Native – Status Bar
- React Native – Switch
- React Native- Text
- React Native – Alert
- React Native- Geo location
- React Native – Async Storage

3. React Advanced

- Consuming Web Services
- Posting data web services
- Third party integration
- Polishing and publishing application.