React Native Training

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Course#:MA-08
Duration:5 Days
Price:800.00
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Course Description

In May 2013, Facebook open-sourced their React JavaScript library, providing web developers everywhere with a powerful and efficient tool to create component-based interactive User Interfaces (UIs). React provided powerful features like stateful components, virtual DOM, one-way data binding with properties (props), lifecycle methods and JavaScript XML (JSX). React quickly became the choice for developers to build faster, smoother UIs for data-driven web applications.

In 2015, Facebook extended React to building native mobile applications on iOS and Android platforms. React Native has created a lot of excitement in the market because of its cross-platform nature. Developers can reuse the code between Android, iOS and web projects with minimal effort. The growing interest in React Native has created a need for skilled developers as a lot of development companies are switching to this technology. React Native is used by many Fortune 500 companies like Facebook, Instagram, Bloomberg, Pinterest, Skype, Tesla, Uber, Walmart, Wix.com, and others. React Natives GitHub repository statistics reveal that nearly 2,000 contributors have committed 16,000 times in 72 branches with over 300 releases. According toGoogle Trends, React Native has become a trending topic in addition to being a popular framework.

Objectives

Learning React Native helps developers:

Create innovative and competitive apps using cross-platform compatibility

Be a part of the thriving React Native community.

Earn an average of $120,000 per year according toneuvoo.com

Grow beyond React Native to learn more advanced tools

Top companies like Netflix, Instagram, Facebook, and Walmart rely on React Native and hire a larger number of React Native developers.

Organizational Benefits

React Native training has certain organizational benefits:

Simpler, quicker and more efficient cross-platform development with code reuse
Cost-effective development, testing, and deployment
Faster development by reusing components and saving time
With React Native, organizations will be able to build apps for all the platforms along with native mobile apps.

React Native Framework is a preferred choice of many development companies that have a mobile-first approach for creating exciting apps that we use on a daily basis. A React native developer finds agility and ease while developing React Native apps. It also offers the advantage of a large community base, hot reloading, and stable apps.

Audience

There are no restrictions but participants would benefit if they have basic JavaScript knowledge.

Prerequisites

There are no mandatory prerequisites that you need to fulfill in order to take up the React Native course. However, possessing the following knowledge prior to taking up this course can be beneficial for you:

Intermediate JavaScript knowledge
Native mobile development experience.

Content

1 Introduction to React

Learning Objective:

By the end of this module you will learn the basics needed to kickstart react native development. Learn about core concepts like components, JSX, state management in component, component interaction using props and events.

What is React

JSX

React Components

Props

Events

State

Lifecycle

PropTypes

Default Props

Hands-on:

Create a React application with function based components and class based components. Use jsx syntax to develop user interface in JavaScript. Apply state management in class based components and pass data to child components using props. code callbacks better past two children from parent component and invoke from child component enable tell to Parent communication.

2 Overview React Native

Learning Objective:

By the end of this module you will learn the pros and cons of hybrid mobile development. You will learn about React Native and how it has solved problems of performance when compared to previous hybrid development frameworks. You will set up the environment and create a first react native application using expo and react native CLI. You will also learn how to debug RN app.

A word on hybrid mobile development

What is React Native

Preparing development environment

Node, Watchman, Xcode, Android Studio

React Native CLI

Creating And Running HelloWorld React Native

Birds view on mobile platforms ios and android

First Debugging steps

Hands-on:

Create a React Native application using React Native as well as expo, work on applications on Android and IOS simulator. Explore developer menu and debug React Native application.

3 Working with Styles Layout

Learning Objective:

By the end of this module you will learn how to apply styles in React Native. You will gain a deeper understanding about flexbox and learn how to develop different kinds of layouts in React Native. You will also learn about style text, images and debug styles.

Exploring Styles and using styles

Inline Styles, Style Objects, Stylesheet

Exploring layout

Understanding Box model

Understanding FlexBox model

Styling Text

Styling Images

Debugging Styles

Hands-on:

Learn the components and tell them using different kinds of objects, develop different components that showcase developing layouts in React Native using flexbox model, style the headings and apply background using images and debug styles.

4 React Native Components

Learning Objective:

By the end of this module you will learn about different React Native components and their application.

What are React Native Components
View
Text
Image
Touchables
ListView
ScrollView
Modal
WebView
TabBar
TextInput
Slider
Switch
Picker

Hands-on:

Create components that make use of several built in React Native components like view, presenting text, using images, responding to touch events using touchables, handling large data using listview, pan and zoom content using scrollview. Use WebView to embed HTML content into React Native application. Also develop components that use text input, picker to accept data from the user.

5 React Native APIs

Learning Objective:

By the end of this module you will learn how to make use of React Native API to access hardware related features and platform specific features.

What are React Native APIs
Alert
Handling permissions
Geolocation
Vibration

Hands-on:

Create components that use native API to interact with platform services. Show the alerts, fetch geolocation, vibrate the device, access camera roll, and capture pictures using camera

6 Navigation

Learning Objective:

By the end of this module you will learn the challenges with navigation in the React Native application. You will learn how to setup and configure React Native navigation library.

What is Navigation

Challenges with navigation

Possible solutions for navigation

Setting up React Native navigation library

Working with React Native navigation

Styling the navigator

OS Specific use cases

Hands-on:

Code Components and configure React Native application with React Native navigation library, develop tab navigation and stack navigation.

7 Remote Communication

Learning Objective:

By the end of this module you will learn how to consume remote API in React Native application using fetch API and third party http client axios.

What is remote communications

Libraries available

Fetching data using fetch

Working with axios for CRUD

Hands-on:

Create components that fetch data from remote API and post data to remote API.

8 Birds View on release builds

Learning Objective:

By the end of this module you will learn how to build and integrate React Native apps in Android and IOS operating systems.