Publication date : 07/01/2024

Course : React Native, native mobile applications for iOS and Android

Practical course - 3d - 21h00 - Ref. FRN
Price : 1780 € E.T.

4,9 / 5

BEST

Réconciliant les développeurs d'applications natives et hybrides, React Native est devenu un framework de référence pour la création d'applications mobiles multiplateformes. A l'issue de la formation, l'apprenant sera capable de réaliser avec React Native des applis mobiles multiplateformes compatibles Android et iOS.

Teaching objectives

At the end of the training, the participant will be able to:

- Understanding mobile development frameworks and the specificity of React Native
- Setting up a React Native development environment
- Building a fluid, high-performance user interface
- Use the main components and native APIs offered by React Native
- Design the software architecture of a multiplatform mobile application

Intended audience

Mobile developers, web developers, architects, technical project managers.

Prerequisites

A working knowledge of JavaScript programming.

Course schedule

1 Introduction

- Native development, heterogeneity and fragmentation.
- The main cross-platform tools.
- Positioning React Native in relation to existing solutions.

PARTICIPANTS

Mobile developers, web developers, architects, technical project managers.

PREREQUISITES

A working knowledge of JavaScript programming.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

2 React Native

- ES6/S201x reminder. Notion of stacker.
- React and the JSX JavaScript superset.
- React Native: key principles, general operation.
- Install and configure React Native.
- Development and debugging tools.

Hands-on work

Installing and configuring React Native. Mastering the debugger.

3 Application architecture

- Configuring a component: state & props.
- React Native and MVC.
- The Flux pattern, an alternative to MVC.
- The arrival of Redux: the blind, the reducer, the actions.

Hands-on work

Initializing a React Native project. Configuring a component.

4 Building your interface

- Basic components (View, Text and Image) and their lifecycles.
- Touch events, ListView and ScrollView.
- Organizing the application layout. Layout with Flexbox.
- Styling components.
- The different ways of navigating between pages.
- Advanced components.
- Use community components.
- Add animations and transitions.

Hands-on work

Develop a first application.

5 Forms and data management

- The main form components.
- Data entry validation and error management.
- Redux-form and alternatives.
- Data retrieval: xmlhttprequest and fetch.
- Local storage.
- Offline management.

Hands-on work

Develop a form, validate data and ensure data persistence.

6 Interacting with the terminal

- The main React Native APIs.
- Use Cordova/PhoneGap plugins.
- Develop a native module.

Hands-on work

Implementation of the main native APIs.

TEACHING AIDS AND TECHNICAL RESOURCES

• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.

• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.

• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

7 Advanced uses

- Best practices and common mistakes.
- Unit and functional testing.
- Publish the application.
- Over The Air updates.
- Frameworks and complementary tools.

Hands-on work
Test and deploy React Native applications.

Dates and locations

REMOTE CLASS
2026 : 23 Mar., 27 May, 5 Oct., 23 Nov.

PARIS LA DÉFENSE
2026 : 27 May, 5 Oct., 23 Nov.