




**MNS**  
MAURITIUS NETWORK SERVICES

Digital Transformation Unleashed


# MOBILE APPLICATION DEVELOPMENT TRAINING

Revolutionize App Development  
with React Native

 11 to 15 Sept 2023

 09:00 to 13:00

 MNS Training Centre, Silicon Ave, Ebene

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# About MNS

- Mauritius Network Services Ltd (MNS) is a proven Public Private Partnership setup in 1994 with a clear mission to provide eServices for Trade Facilitation and Business Facilitation.
- Over the years, MNS has been entrusted to implement innovative eGovernment systems on a variety of technology platforms linking Government, Business and Citizen.
- MNS has a strong community of more than 120,000 users that access its services.
- MNS also operates a training centre which is MQA Registered, and its trademark training services include CNP, CBRIS, Tradelink and TradeNet. MNS has now embarked into expert technical training to accompany its stakeholders into their digital transformation journey.

# About the Training

This is a structured educational program designed to equip individuals with the skills and knowledge to create and maintain applications specifically tailored for mobile devices such as smartphones and tablets.

This training program covers a wide array of topics related to mobile app development, including programming languages, frameworks, design principles, user experience (UX) considerations, and app deployment.

## Understand

Understand basic React Native concepts, including state and props

## Gain

Gain expertise in bundling APKs for deployment in real devices and app stores

## Explore

Explore State Management Using Redux

## Master

Master the art of creating captivating splash screens

## Discover

Discover techniques for building cross-platform applications

## Learn

Learn how to fetch and post data from databases

## Implement

Implement React Native best practices for mobile app development

## Familiarize

Familiarize yourself with React Native design principles.

# Training Content

## DAY 1

### Introduction to Mobile Technologies & Setting up Development Environment

- ✓ Introduction to React Native
- ✓ Advantages and use cases
- ✓ Setting up development environment (Node.js, npm, React Native CLI)
- ✓ Creating your first React Native project
- ✓ Understanding the project structure
- ✓ Running your app on Android and iOS simulators/emulators

## DAY 3

### React State Management & Redux

- ✓ React state, props, and component lifecycle
- ✓ Handling user input and events
- ✓ Introduction to React Hooks
- ✓ Introduction to Redux for state management
- ✓ Setting up Redux in a React Native app
- ✓ Defining actions, reducers, and the store
- ✓ Connecting React components to Redux

## DAY 2

### React Basics & Navigation

- ✓ Understanding React components
- ✓ Creating and rendering components
- ✓ Styling components with CSS-in-JS (StyleSheet)
- ✓ Introduction to React Navigation
- ✓ Creating a basic navigation structure
- ✓ Navigating between screens
- ✓ Adding navigation headers

# Training Content

## DAY 4

### Building the Joke App & Development

- ✓ Designing the Chuck Norris joke app UI
- ✓ Implementing Redux for state management
- ✓ Fetching Chuck Norris jokes from an API
- ✓ Implementing the "Tell Me a Joke" button
- ✓ Adding a splash screen
- ✓ Styling the app
- ✓ Testing on physical devices
- ✓ Introduction to TypeScript

## DAY 5

### Advanced Topics & Development

- ✓ Introduction to React Hook Form for form handling
- ✓ Implementing form for user interaction
- ✓ Basic animations using Reanimated
- ✓ Creating a production-ready APK (Android)
- ✓ Deploying the app on the Google Play Store
- ✓ Preparing the app for the Apple App Store
- ✓ Course wrap-up and Q&A

## Topics to be covered throughout the Training

- ✓ Git version control basics
- ✓ npm package management
- ✓ React Native best practices
- ✓ Debugging and troubleshooting in React Native
- ✓ Performance optimization in React Native
- ✓ Handling app permissions and security
- ✓ App deployment strategies and considerations
- ✓ Introduction to testing in React Native (unit testing and UI testing)

# Pre-requisites



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## Course Requirements

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### Equipment:

- Laptop/PC with a minimum of 8GB RAM

### Installed software:

- Visual Studio Code
- Android Studio

### Knowledge:

- Basic understanding of web development, including HTML, CSS, and JavaScript.

# Trainer's Profile

## Our Expert

- **Danilo Pootaren**

## Expertise

- ReactJS
- REDUX
- REDUX SAGA
- React styled-components
- Functional components
- Class components
- Lodash Library
- React with typescript





## **FOR MORE INFORMATION**

Call on +230 401 6800

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