

# REACT NATIVE



ZETLAN TECHNOLOGIES

## e-Learning Course

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**[www.zetlantech.com](http://www.zetlantech.com)**

## **Module 1: Introduction to React Native**

- What is React Native?
- React Native vs. Other Mobile Frameworks
- Setting Up the Development Environment
- Understanding the Folder Structure
- Running Your First React Native App

## **Module 2: Core React Native Components**

- View, Text, and Image Components
- Button and Touchable Components
- ScrollView and FlatList for Handling Lists
- StyleSheet and Styling Best Practices

## **Module 3: React Native Navigation**

- Understanding Navigation in Mobile Apps
- React Navigation Setup
- Stack Navigation
- Tab Navigation
- Drawer Navigation
- Passing Data Between Screens

## **Module 4: State Management in React Native**

- Managing State with useState and useEffect
- Context API for State Management
- Redux and Redux Toolkit
- React Query for Data Fetching
- MobX (Optional)

## **Module 5: Handling User Input & Forms**

- TextInput Component
- Handling Form Submission
- Form Validation with Formik & Yup
- Keyboard Avoidance Techniques

## **Module 6: Working with APIs and Networking**

- Fetching Data with Fetch API & Axios
- Handling API Requests & Responses
- Using AsyncStorage for Local Data Storage
- Offline Data Handling

## **Module 7: Native Modules & Third-Party Libraries**

- Linking Native Modules
- Using React Native Vector Icons
- Image Picker & Camera Access
- Push Notifications with Firebase (FCM)

## **Module 8: Performance Optimization**

- Handling Performance Issues
- Optimizing FlatList and ScrollView
- Reducing App Bundle Size
- Profiling and Debugging with React DevTools

## **Module 9: Authentication & Security**

- Implementing Firebase Authentication
- Social Login (Google, Facebook)
- Secure Storage & Environment Variables
- Protecting Routes & Secure API Calls

## **Module 10: React Native Animations**

- Animated API
- Layout Animation
- Reanimated & Gesture Handler
- Creating Smooth UI Interactions

## **Module 11: Testing and Debugging**

- Debugging with React Native Debugger
- Unit Testing with Jest & React Testing Library
- End-to-End Testing with Detox

## **Module 12: Deployment & Publishing**

- Preparing the App for Release
- Building & Deploying to Android (Google Play Store)
- Building & Deploying to iOS (App Store)
- Code Signing and Certificates