

# React Native Development

## 1. Introduction to Mobile App Development

- A. Overview of mobile application development
- B. Native vs cross-platform mobile apps
- C. Introduction to React Native
- D. Advantages of React Native for Android development
- E. React Native architecture overview
- F. Industry use cases

## 2. JavaScript & ES6 Fundamentals

- A. JavaScript basics for mobile apps
- B. Variables, data types, and operators
- C. Functions and arrow functions
- D. ES6 features (let/const, destructuring, modules)
- E. Asynchronous JavaScript (Promises, async/await)

## 3. React Fundamentals

- A. Introduction to React concepts
- B. Components and JSX
- C. Functional components
- D. Props and state
- E. Handling events

## 4. React Native Environment Setup

- A. Installing Node.js and npm
- B. Setting up React Native CLI
- C. Android Studio and emulator setup
- D. Project structure in React Native
- E. Running React Native apps on Android

## 5. Core Components & UI Design

- A. Core components (View, Text, Image, ScrollView)
- B. Styling using StyleSheet
- C. Flexbox layout system
- D. Responsive UI design
- E. Platform-specific components

## **6. Navigation & Routing**

- A. Introduction to React Navigation
- B. Stack navigation
- C. Tab and drawer navigation
- D. Passing data between screens
- E. Navigation lifecycle

## **7. State Management & Hooks**

- A. useState and useEffect hooks
- B. Managing component state
- C. Context API basics
- D. Handling global state
- E. Optimizing re-renders

## **8. User Input & Forms**

- A. TextInput component\
- B. Handling forms and validation
- C. Keyboard handling
- D. Touchable components and gestures

## **9. API Integration & Networking**

- A. Fetching data using Fetch API
- B. Using Axios for HTTP requests
- C. Handling API responses
- D. JSON parsing and data handling
- E. Error handling

## **10. Local Storage & Device Features**

- A. AsyncStorage for local data
- B. Using device features (Camera, GPS)
- C. Permissions handling
- D. Using third-party libraries
- E. Push notification overview

## **11. Performance & Optimization**

- A. Performance optimization techniques
- B. Handling large lists with FlatList
- C. Memory management basics
- D. Debugging performance issues

## **12. Testing & Debugging**

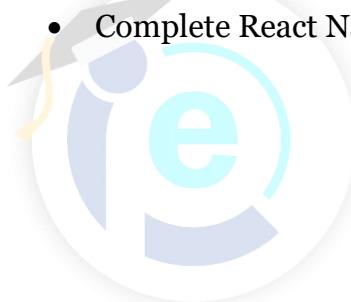
- A. Debugging React Native apps
- B. Using React Native Debugger
- C. Error handling and logging
- D. Unit testing basics

## **13. App Deployment**

- A. Building APK for Android
- B. App signing and versioning
- C. Publishing app on Google Play Store
- D. Release management
- E. App maintenance

### **Mini Projects:**

- Android app using React Native
- API-based mobile application
- Authentication-based app
- Complete React Native mini project



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