React-Native Mobile App Development

Module - 1: Get Started

1. React Native overview
2. Advantages of React Native
3. Course introduction

Module - 2: Pre-requisites

1. CSS fundamentals
2. JavaScript fundamentals
3. React fundamentals

Module - 3: Environment Setup

1. Setup development environments
2. Installing required tools
3. Creating a new project
4. Configuring emulators

Module - 4: Development Workflow

1. React Native project structure
2. Debugging tools
3. Managing dependencies
4. Running, testing, and building apps
5. CI / CD options

Module - 5: Core Components

1. Core components in React Native
2. Building and styling components
3. State management and props
4. Handling user interactions
5. Developing a user interface

Module - 6: Platform Specific Code

1. Writing platform-specific code
2. Platform-specific modules / libraries
3. Platform-specific design / functionality

Module - 7: Styling

1. Styling with Flexbox and CSS
2. Theming and design patterns
3. Responsive design
4. Animations and transitions

Module - 8: Networking

1. Making API requests
2. RESTful APIs
3. Secure data transmission

Module - 9: Push Notifications

1. Implementing push notifications
2. Firebase Cloud Messaging (FCM)
3. Handling notifications / user interactions

Module - 10: Interactions

1. User interactions / gestures
2. Touch events / gestures
3. Gesture recognizers / animations

Module - 11: Deep Linking

1. Deep linking for navigation
2. Handling deep links
3. Routing and navigation

Module - 12: Security

1. Security best practices
2. Authentication and secure data handling
3. Secure storage and data encryption

Module - 13: Storage

1. Local data storage and persistence
2. AsyncStorage and SQLite
3. Data synchronization

Module - 14: Testing

1. Unit tests
2. Component and integration tests
3. Testing on real devices / simulators

Module - 15: Performance

1. Optimizing app performance
2. Handling images / assets
3. Profiling / debugging performance

Module - 16: Publishing Apps

1. Preparing apps for deployment
2. Generating production builds
3. App store submission guidelines

Module - 17: Projects

1. To-Do List App
2. Weather App
3. E-commerce App
4. Social Media App