

**TRAINING TRAINS**

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IT Services and IT Consultancy \ Internship-Inplant Training \ Software Training Institute

உங்கள் கடை மற்றும் வியாபாரத்திற்கு ஏற்ற **Website & Andriod App** மற்றும் **Software** மிகச்சிறந்த முறையில் செய்து கொடுக்கப்படும்.

Expertise : **AI, Machine Learning & Data Science \ Cybersecurity & Ethical Hacking
IoT, Blockchain & Cloud Computing \ Full Stack Web & Mobile Development
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React Native Developer – 100+ Lab Exercises (Basic, Intermediate, Advanced)

□ Basic Level (30+ Exercises)

Objective: Grasp the fundamentals of React Native and build foundational mobile UI and logic.

React Native Fundamentals

- Install Node.js, Watchman, Expo CLI, and React Native CLI.
- Set up your first React Native app using Expo and CLI.
- Understand the folder structure of a React Native project.
- Learn JSX and component-based architecture.
- Create functional and class-based components.

Basic UI Components

- Build a simple login screen using `TextInput`, `Button`, and `View`.
- Create a registration form with validation.
- Design a splash screen and navigation screen.
- Display lists using `FlatList` and `SectionList`.
- Use `ScrollView` and implement scrollable layouts.

Navigation & State

- Use `React Navigation` to implement stack navigation.
- Implement bottom tab navigation and drawer navigation.
- Use `useState`, `useEffect` for state and lifecycle.
- Connect screens with props and basic state management.

Styling

- Apply styles using `StyleSheet`.
- Create reusable style objects.
- Learn Flexbox for responsive layouts.
- Implement dark and light theme toggles.

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□ Intermediate Level (40+ Exercises)

Objective: Master dynamic navigation, animations, API handling, and modular coding practices.

API Integration & Data Handling

- Fetch data using `fetch()` and `axios`.
- Connect to a REST API and display data.
- Create a search filter using `FlatList`.
- Implement pull-to-refresh and infinite scroll.

State Management

- Use Context API for global state management.
- Introduction to Redux and Redux Toolkit.
- Build a Redux store and dispatch actions.
- Use middleware (Redux Thunk) for async operations.

Forms & Validation

- Build dynamic forms using `react-hook-form`.
- Validate input using `Yup` schema.
- Create reusable form input components.

Navigation Advanced

- Pass data between screens using `params`.
- Implement authentication-based navigation flow.
- Protect routes based on login status.

Animation & UI Enhancements

- Animate components using `Animated` API.
- Implement gestures using `react-native-reanimated`.
- Use `Lottie` for animated illustrations.

□ Advanced Level (40+ Exercises)



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Objective: Deploy real-world scalable apps, optimize performance, and integrate advanced native capabilities.

Native Modules & Integrations

- Integrate device features (camera, geolocation, notifications).
- Use `react-native-maps` for location services.
- Integrate Firebase Authentication and Firestore.
- Use `react-native-push-notification` for alerts.

App Performance Optimization

- Use `React.memo` and `useCallback` for performance tuning.
- Optimize `FlatList` rendering for large datasets.
- Profile app performance with Flipper and React DevTools.

Advanced State & Persistence

- Persist state with `AsyncStorage` or `redux-persist`.
- Encrypt and secure stored data.
- Use `SQLite` or `Realm DB` for local data storage.

Testing & Debugging

- Write unit tests with `Jest` and component tests with `React Native Testing Library`.
- Use `Detox` for end-to-end testing.
- Debug using Chrome and Flipper tools.

Build & Deployment

- Generate Android APK and iOS builds.
- Configure app icons, splash screens, and metadata.
- Publish app to Google Play Store and Apple App Store.
- Use CI/CD tools (e.g., `Bitrise`, `Fastlane`) for automation.

Capstone Projects

- Build a social media app with authentication and posts.
- Create a food delivery app with map-based tracking.
- Design an e-commerce app with `Redux`, cart, and payment gateway.
- Build a fitness tracker with animation and device integration.



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□ Tools & Libraries

- **Navigation:** @react-navigation/native
- **State:** Context API, Redux Toolkit
- **Form:** react-hook-form, formik
- **UI:** React Native Paper, NativeBase, Tailwind RN
- **Animation:** Lottie, react-native-reanimated
- **Testing:** Jest, Detox, React Native Testing Library
- **Storage:** AsyncStorage, Realm, SQLite
- **Cloud:** Firebase, AWS Amplify
- **CI/CD:** Bitrise, GitHub Actions, Fastlane