



# 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  
Digital Marketing & SEO

W3 App Developers

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## React Native Developer – 100+ Lab Exercises (Basic, Intermediate, Advanced)

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### 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