



Future-Oriented Training and Consulting

#### MOBILE APP DEVELOPMENT PROGRAM

# Mobile App Development

## with Flutter & React Native

Equipping developers to design, build, and deploy cross-platform mobile applications.

|                                                                                              |                                                                                                      |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Proven Mobile Frameworks</b><br>Hands-on exposure to Flutter and React Native frameworks. | <b>Live Coding Exercises</b><br>Real-world coding exercises and projects that sharpen mobile skills. |
| <b>Cross-Platform Focus</b><br>Practical tools to build once and deploy to iOS and Android.  | <b>Deployed Mobile Applications</b><br>A functional mobile app participants can build on.            |

### CONTACT & HEADQUARTERS

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## Program Overview

This program builds practical skills in cross-platform mobile app development using Flutter and React Native.

Through live coding exercises, project-based assignments, and hands-on exposure to mobile development frameworks, participants will design, build, and deploy functional mobile applications for iOS and Android.

## Program Objectives

- **Design Mobile App Architecture:** Structure apps that are maintainable and scalable.
- **Build with Flutter:** Develop UI and logic using Dart and Flutter widgets.
- **Build with React Native:** Develop cross-platform apps using React and native modules.
- **Integrate Data and Device Features:** Connect apps to APIs, storage, and device hardware.
- **Deploy to iOS and Android:** Publish functional apps to both app stores.
- **Sustain Development Best Practices:** Apply testing and maintenance practices long-term.

## Target Audience

This program is designed for individuals building practical mobile development skills, including:

- **Aspiring Mobile Developers** building a foundation in mobile app development.
- **Web Developers Expanding to Mobile** extending front-end skills into mobile apps.
- **Product Managers & Founders** scoping and shipping mobile app projects.
- **QA & Mobile Test Engineers** testing apps across devices and platforms.
- **UI/UX Designers** translating designs into working mobile interfaces.
- **Students & Early-Career Professionals** building a portfolio of real mobile apps.
- **Entrepreneurs & Technical Founders** launching their own mobile app idea.

## Program Impact

Participants will leave this program with practical mobile development skills and a deployed app. Graduates will be ready to design, build, and deploy functional mobile applications for iOS and Android.

## Program Outline

### **MODULE 1: Foundations of Cross-Platform Mobile Development**

- How Flutter and React Native compare and connect
- Native vs. cross-platform development trade-offs
- Setting up the development environment
- Planning app architecture and navigation
- Common pitfalls in mobile app development

### **MODULE 2: Building with Flutter**

- Dart fundamentals and widget composition
- Layouts, state management, and navigation
- Styling and theming Flutter apps
- Hands-on exposure to Flutter development tools
- Debugging and testing Flutter apps

### **MODULE 3: Building with React Native**

- React Native components and navigation
- State management and hooks in React Native
- Bridging to native modules and APIs
- Hands-on exposure to React Native development tools

### **MODULE 4: Data, APIs, and Device Integration**

- Connecting apps to REST and cloud APIs
- Local storage, caching, and offline support
- Accessing camera, location, and device sensors
- Handling push notifications
- Building a complete, functional mobile app

### **MODULE 5: Deployment and Ongoing Practice**

- Publishing apps to the App Store and Google Play
- Monitoring crashes and app performance
- Managing updates and version releases
- Sustaining development practice beyond the program