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hello@data24zone.com · data24zone.com/courses/mobile-app-development

CAREER PROGRAM · SYLLABUS · MOBILE DEVELOPMENT

Mobile App Development

Learn the fundamentals of designing, building, and publishing cross-platform mobile apps for both iOS and Android from scratch.

DURATION	COMMITMENT	LEVEL	FORMATS
12 Weeks	8–10 hrs/week	Beginner to Intermediate	Online Live · Offline (Coimbatore) · Self-Paced

Tools & tech stack

Flutter / React Native · iOS · Android · REST APIs · Firebase · React Native · TypeScript · Expo & EAS · Fastlane · ML Kit / Core ML · Sentry · GitHub Copilot · ChatGPT · Claude · Perplexity

Who it's for

- Beginners who want to build their first mobile app

What you'll learn

- Mobile UI/UX fundamentals for iOS and Android
- Core app architecture and navigation
- Working with device features and APIs
- Publishing your first app to the app stores

Curriculum

01 Part 1: Mobile and Programming Foundations

- Mobile Platforms and Product Lifecycle
- JavaScript, TypeScript, and Git for Mobile Teams
- React Native and Expo Tooling

02 Part 2: Interface Design and Components

- Core Components and Layout
- Forms and User Input
- Interaction, Animation, and Mobile UX

03 Part 3: Navigation State and Architecture

- Navigation and Deep Linking
- State Management
- Application Architecture

04 Part 4: Data APIs and Offline Applications

- API Integration
- Local Data and Offline-First Design
- Backend Services and Realtime Data

05 Part 5: Device Capabilities and Integrations

- Permissions, Location and Maps
- Camera, Media, Files and Sharing
- Notifications, Background Work and Sensors

06 Part 6: Identity Security and Commerce

- Mobile Authentication
- Application Security and Privacy
- Payments, Subscriptions and Monetisation

07 Part 7: Quality Performance and Native Integration

- Mobile Testing
- Performance and Stability
- Native Modules and Platform Features

08 Part 8: Release Operations and Product Growth

- Build, Signing and Store Release
- CI/CD, Monitoring and Support
- Mobile Analytics and Improvement

09 AI Pro

- Using Claude, ChatGPT, and Perplexity to Build and Debug Mobile Apps
- Verifying AI-Suggested Mobile Code Across Platforms Before Trusting It
- Project: AI-Assisted Mobile Feature Development with Cross-Platform Verification

Projects

- Local-first habit tracker with streaks, reminders, and offline charts
- GPS-driven place finder with map clustering and photo check-ins
- Receipt scanner using on-device text recognition and LLM-based expense categorization
- Offline-first field inspection app with local queuing and background sync
- Fitness social feed app with real-time activity updates and push notifications