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# ONLINE OFFLINE COURSE

- C / C++

## FULLSTACK

- JAVA ☕

- PYTHON 🐍

- WEB TECH 🌐

- ANDROID 📱

- CHATGPT / AI TOOLS

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**9+ YEARS  
SOFTWARE  
DEVELOPMENT  
&  
TRAINING  
EXPERIENCE**

**4+ YEARS  
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Plot no. 123, Hudkeshwar road, Nilkanth nagar, near overhead water tank, Nagpur



# MOBILE APP DEVELOPMENT

## MOBILE APP DEVELOPMENT

### FUNDAMENTALS OF MOBILE APP DEVELOPMENT

- INTRODUCTION TO NATIVE, HYBRID, CROSS-PLATFORM
- ANDROID VS IOS ECOSYSTEMS
- WHY FLUTTER AND REACT NATIVE?
- TOOLS SETUP: VS CODE, ANDROID STUDIO, EMULATORS

### FLUTTER DEVELOPMENT (DART LANGUAGE)

- DART BASICS: VARIABLES, FUNCTIONS, OOP
- FLUTTER BASICS: WIDGETS, SCAFFOLD, MATERIALAPP
- LAYOUTS: ROWS, COLUMNS, CONTAINERS
- NAVIGATION AND ROUTING
- FORMS AND INPUT VALIDATION
- STATE MANAGEMENT: `SETSTATE`, LIFTING STATE UP
- HTTP REQUESTS WITH `HTTP` PACKAGE
- API INTEGRATION
- LOCAL DB: `SQFLITE`, `HIVE`
- AUTHENTICATION (FIREBASE OR CUSTOM API)
- FIREBASE INTEGRATION (AUTH + FIRESTORE)
- CUSTOM WIDGETS
- PROVIDER OR RIVERPOD STATE MANAGEMENT
- PUSH NOTIFICATIONS (FCM)
- BACKGROUND SERVICES
- ANIMATIONS AND TRANSITIONS
- APP DEPLOYMENT (ANDROID APK/AAB, IOS VIA CI/CD)
- PLATFORM CHANNELS (DART <-> KOTLIN/JAVA)

### REACT NATIVE DEVELOPMENT (JAVASCRIPT/TYPESCRIPT)

- JAVASCRIPT / TYPESCRIPT BASICS
- REACT NATIVE COMPONENTS, JSX, STYLESHEETS
- FLEXBOX LAYOUTS
- NAVIGATION (REACT NAVIGATION)
- HANDLING INPUTS AND FORMS
- USESTATE AND USEEFFECT HOOKS
- API CALLS (AXIOS/FETCH)
- REDUX OR REDUX TOOLKIT
- ASYNCCSTORAGE
- FIREBASE (AUTH + FIRESTORE)
- CAMERA, GALLERY, PERMISSIONS
- MAPS AND GEOLOCATION
- PUSH NOTIFICATIONS (EXPO/FCM)
- BACKGROUND TASKS
- NATIVE MODULES & LINKING
- ANIMATIONS (REANIMATED/LOTTIE)
- OPTIMIZATION AND CODE SPLITTING
- APP SIGNING AND DEPLOYMENT (APK & IOS)

**ONLINE/OFFLINE COURSE**

**DAILY VIDEO RECORD  
CODE BASED TRAINING  
COMPLETE PRACTICAL**

**PROJECT OF EVERY TECHNOLOGY**

**RESTFUL APIs & CRUD OPERATIONS  
DATABASE INTEGRATION  
AUTHENTICATION & SECURITY  
WEBSOCKETS & REAL-TIME COMMUNICATION  
FILE UPLOADS & BACKGROUND JOBS**

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### JAVA BASICS

- SYNTAX, VARIABLES, DATA TYPES
- CONDITIONALS, LOOPS
- FUNCTIONS AND OOP BASICS
- CLASSES, INHERITANCE
- ANDROID PROJECT STRUCTURE (MANIFEST, GRADLE)
- ACTIVITIES, INTENTS, SERVICES
- NATIVE ANDROID APIs (CAMERA, STORAGE)

### KOTLIN BASICS

- SYNTAX VS JAVA
- VAL VS VAR, NULL SAFETY
- FUNCTIONS, LAMBDAS
- EXTENSION FUNCTIONS
- KOTLIN IN FLUTTER PLUGINS
- PERMISSIONS, INTENTS

### BONUS: TOOLS AND DEVOPS

- - GIT & GITHUB
- - DEBUGGING TOOLS
- - TESTING ON REAL ANDROID DEVICE
- - CI/CD (CODEMAGIC, APP CENTER, EXPO)
- - APP PUBLISHING (PLAY STORE, APP STORE)

### CAPSTONE PROJECTS

- - FLUTTER: CHAT APP / E-COMMERCE APP
- - REACT NATIVE: TODO APP WITH REDUX
- - MULTI-PLATFORM NEWS APP
- - PERSONAL FINANCE TRACKER

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