



MOBILE APP DEVELOPMENT (FLUTTER & REACT NATIVE)

DART . WIDGETS . STATE . UI
REACT NATIVE . NAVIGATION
FIREBASE . STORE RELEASE

DURATION

100 Hours

LEVEL

**Beginner to
Advanced**

MODULES

8

MODE

**Classroom ·
Online · Hybrid**

01 COURSE OVERVIEW

A cross-platform mobile course teaching Flutter and React Native side by side. Both frameworks are taught against the same set of application requirements — lists, navigation, forms, local storage, push notifications, camera and payments — so learners understand the trade-offs and can work in either.

The course ends with one published-ready application per framework and a store submission walkthrough.

WHO IT IS FOR

Developers moving into mobile

Web developers with JavaScript experience

Freelancers building client apps

Startup teams prototyping products

PREREQUISITES

Basic programming knowledge. JavaScript familiarity helps for React Native.

02 LEARNING OUTCOMES

01 Build responsive mobile layouts for both platforms.

03 Navigate stacks, tabs and deep links.

05 Use device APIs: camera, location, notifications.

07 Prepare builds for the Play Store and App Store.

02 Manage state with providers, hooks and stores.

04 Persist data locally and sync with a backend.

06 Integrate Firebase authentication and Firestore.

03 MODULE STRUCTURE

8 MODULES

01 MOBILE FOUNDATIONS

Platform differences

Design guidelines

Project structure

App lifecycle

Emulators and devices

Debugging

02 DART AND FLUTTER BASICS

Dart syntax

Layout

Assets

Widgets

Styling and themes

Hot reload

LAB

FLUTTER UI BUILD

03 FLUTTER STATE AND DATA

setState

Riverpod overview

HTTP calls

Provider

Futures and streams

Local storage

LAB

LIST AND DETAIL APP

04 REACT NATIVE BASICS

Components and styling

Expo vs bare workflow

Platform APIs

Flexbox layout

Navigation

LAB

REACT NATIVE UI BUILD

05 REACT NATIVE STATE AND DATA

Hooks

Redux Toolkit basics

REST integration

Context

Async storage

Error handling

LAB

CONNECTED APP

06 DEVICE CAPABILITIES

Camera and gallery

Push notifications

Biometrics

Location and maps

Permissions

Background tasks

LAB

CAMERA AND NOTIFICATIONS

07 BACKEND WITH FIREBASE

Authentication

Storage

Security rules

Firestore

Cloud Functions basics

Analytics

LAB

AUTH AND CLOUD DATA

08 TESTING AND RELEASE

Widget and component tests

Performance profiling

Signing

Device testing

App icons and splash

Store submission

PROJECT

TWO PUBLISHED-READY APPLICATIONS

04 ASSESSMENT & CERTIFICATION

Module assignments and labs

25%

Mini projects

20%

Internal assessments

15%

Final project and review

40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

MOBILE APP DEVELOPER

FLUTTER DEVELOPER

REACT NATIVE DEVELOPER

CROSS-PLATFORM ENGINEER

PRODUCT ENGINEER

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