

Advanced Flutter training

2 days (14 hours)

Presentation

Did you enjoy [our initial training course](#)? You're going to love Flutter Advanced, with our trainer bringing you his expertise. 2-day mobile bootcamp in commando mode!

This is an advanced course and not intended for beginners. In this advanced Flutter course, you'll learn how to work with graphics, animate widgets, use maps, integrate phones such as permissions and camera and use Firebase.

If you have any doubts about the importance of this development kit, don't forget that Flutter is :

- A user interface and logic that don't change depending on the platform
- Faster development
- Near native application performance
- No reliance on platform-specific UI components Our training will be based on the

latest stable version of Flutter, namely [Flutter 3.27](#).

Objectives

- Transform your existing applications for high availability
- Migrate and modernize your infrastructure
- Automate rules and security on a grand scale
- Learn graphics, animations, mapping, device integration, permissions, camera, Firebase authentication, Firebase storage, Firebase database

Target audience

- Architects

- Developers
- System administrators

Prerequisites

- Intermediate knowledge of flutter
- Have taken our [Flutter & Dart training course](#)
- [Test My Knowledge](#)

Technical requirements

- Latest OS updates (Mac or Windows)
- Flutter SDK updated Android Studio with Android SDK installed (for Android simulator testing)
- Visual Studio Code
- Flutter Live Preview Plugin for Visual Studio Code

Our Advanced Flutter Training Program

Advanced level with Dart

- Improve understanding of asynchronism with Stream
- Understanding Null Safety
- Server-side coding with Dart (Web Server)
- Understanding gRPC implementation in Dart

Advanced level with Flutter

- Internationalization (i18n process with intl)
- Creating a Flutter package
- Understanding state management with the BLOC package
- Understanding and implementing Navigation 2.0
- Understanding Flutter hooks
- Understanding how to use Fastlane
- Understanding how to use Firebase App distribution

Additional modules: 1 additional day

Widgets

- The CustomPainter class
- The BoxDecoration class
- The RotatedBox class
- The Opacity class

Entertainment

- Animation builder
- Listener
- AnimatedWidget
- CurvedAnimation
- AnimationController
- Tween
- Notifications
- Simultaneous entertainment
- Follow the progress of the animation

Mobile integration

- Permissions
- Using contacts
- URL launcher
- Using the camera

Interactive maps

- Show a map
- Markers
- Map interactions
- Polylines

Using Firebase

- Introducing Firebase
- Project configuration
- Authentication
- Real-time database
- Firebase database set vs update
- Firebase find and findrange databases

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.