

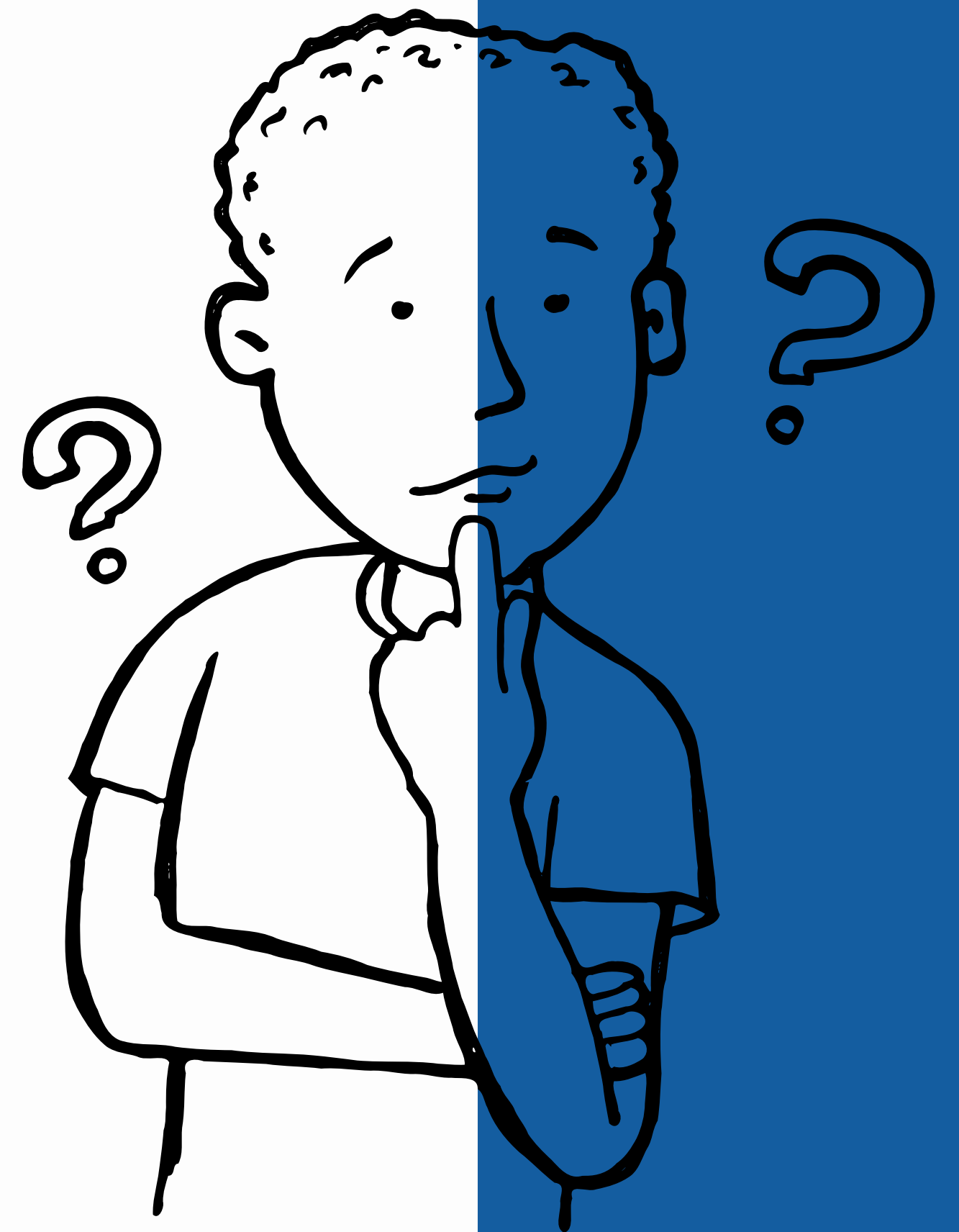
# Cross-Platform Development with Flutter & Dart.

By: Kushal Poudel



# Overview

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# Introduction

Flutter is a mobile SDK, built and open sourced by Google; and at its core, it's about empowering everyone to build beautiful mobile apps. Whether you come from the world of web development or native mobile development, Flutter makes it easier than ever to create mobile apps in a familiar, simplified way. Flutter is special in that it makes it truly possible to “write once, and deploy everywhere.” Flutter apps can deploy to Android, iOS, and ChromeOS & Flutter apps can also run as web apps and desktop apps on all major operating systems




# 101. Dart Basics

- ▶ Understand programming fundamentals
- ▶ Object Oriented programming
- ▶ Error Handling
- ▶ Collections
- ▶ Asynchronous Programming
- ▶ Libraries and Packages



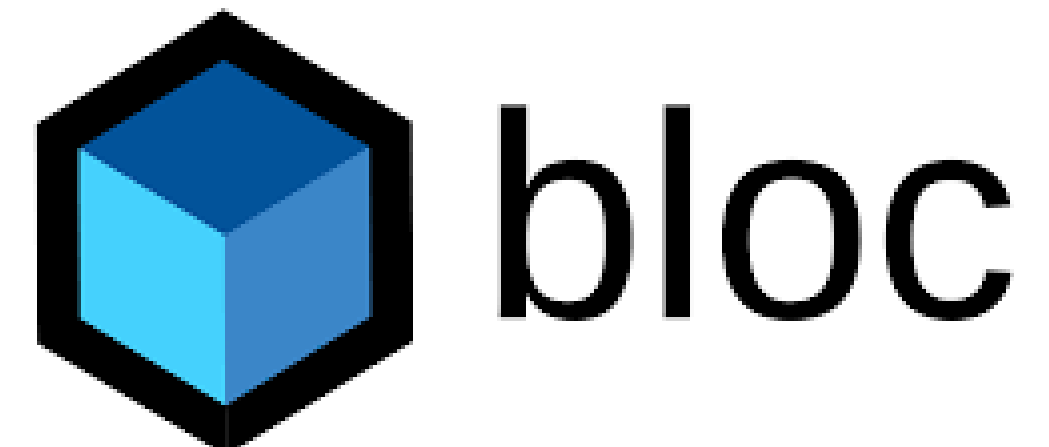
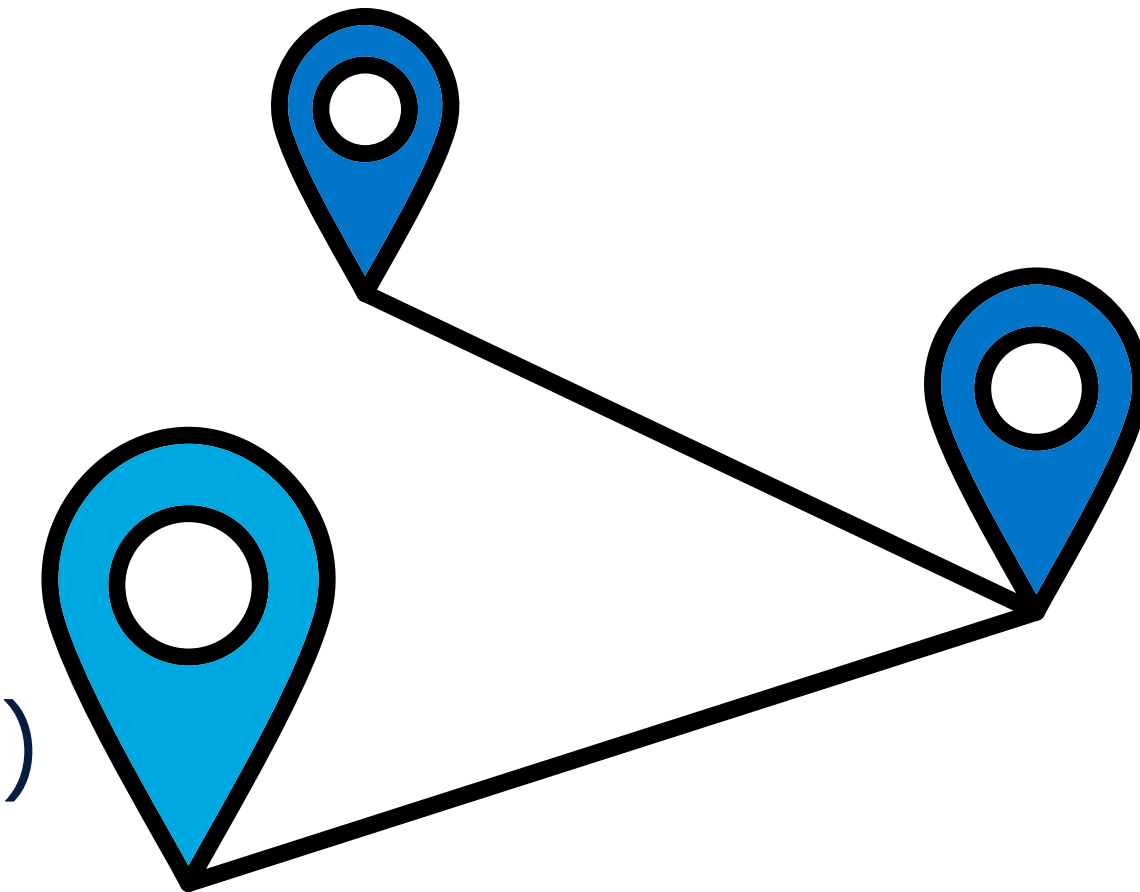
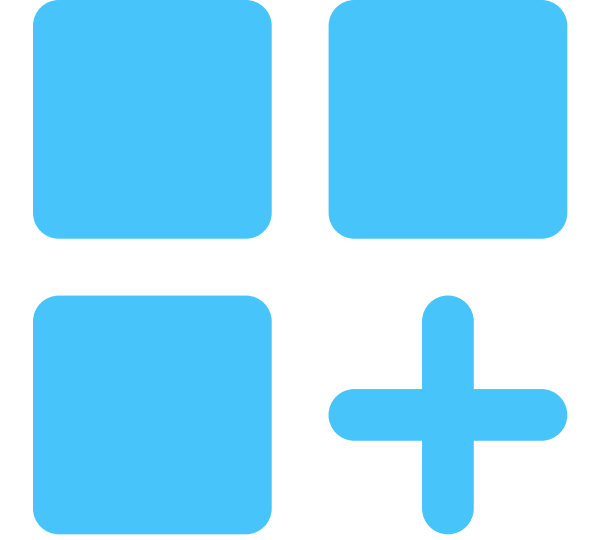
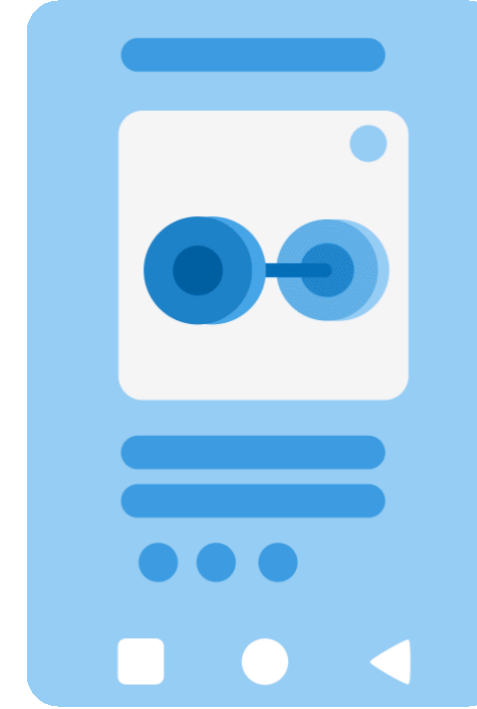


## 102. Flutter & Setup

- ▶ Flutter
  - ▶ Enviroment Setup
  - ▶ Android studio
  - ▶ Visual Studio
  - ▶ Visual Studio Code
  - ▶ Xcode setup (for mac or ios)
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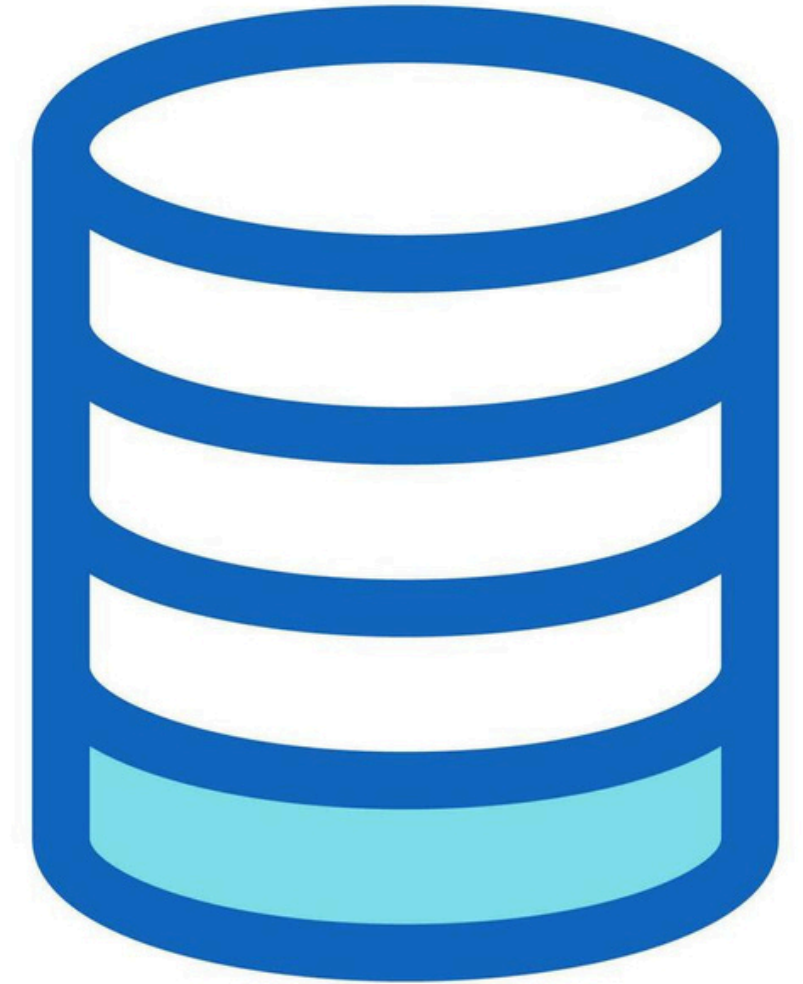
## 103. Flutter Basics

- ▶▶ How Flutter UI works?
- ▶▶ Widgets
- ▶▶ Navigation & Routing
- ▶▶ Forms & Validation
- ▶▶ Stateless & StateFull Widgets
- ▶▶ State Management with Bloc (Provider or Riverpod)
- ▶▶ Gesture Detectors and other Widgets in flutter



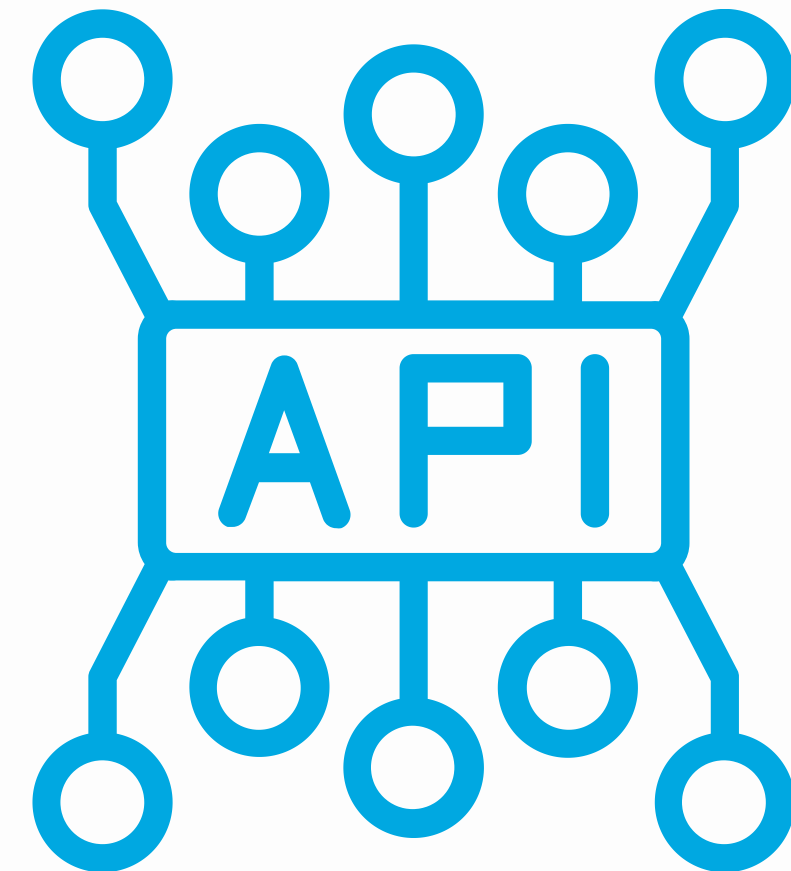
## 104. Intermediate Flutter

- ▶ Optimum Folder Structure (To keep code clean)
- ▶ Custom Widgets
- ▶ Persistent data ( SQLite or Shared Preferences)
- ▶ Firebase Integration
- ▶ Design Patterns
- ▶ Solid Principles



## 105. Pre- Advanced Flutter

- ▶ Intro To API
- ▶ Creating Model Class
- ▶ Casting JSON to Model Class
- ▶ Handling Api datas in UI.
- ▶ Isolates In flutter





## 105. Advanced Flutter

- ▶ Unit & Widgets Testing
- ▶ Platform Specific Code
- ▶ Memory Management
- ▶ App Profiling
- ▶ Push Notifications

**Platform.isIOS**

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## 106. Deployment

- ▶▶▶ Signing App
- ▶▶▶ Building appbundle
- ▶▶▶ Build & Release In playstore or appstore
- ▶▶▶ CI / CD with flutter.







# THANK YOU!



**Kushal Poudel Chhetri**

Flutter Developer

-  [kushalpoudel077@gmail.com](mailto:kushalpoudel077@gmail.com)
-  [www.poudelkushal.com.np](http://www.poudelkushal.com.np)
-  Pokhara, Archalboat Nepal.
-  <https://github.com/kushalchh07>

# Resource Page

- Flutter In action( Book by Eric Windmill.)
- Dart.dev ( A website about Dart)
- Flutter.dev ( A website about Flutter)
- Chat Gpt ( Obviously , An excellent tool who knows prompting)