



# Pemrograman Mobile dengan Flutter

Introduction

Team Pemrograman Mobile

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# Rules



**Tepat Waktu**



**Komunikasi via sms atau wa**

Monday-Friday(07.00 - 19.00 WIB)



**Tidak berbuat curang**

Discount 50%

# Rules

- **Ketika bicara menyalakan video dan mic**
- **Merespon ketika dipanggil**
- **Menggunakan pakaian sesuai aturan JTI**
- **Buat catatan**
- **Cek kuota**

# Outline

- Kontrak Kuliah
- Pengenalan Flutter
- Praktikum
  - Instalasi Flutter
  - Membuat git repository dan publish ke github
  - Tugas Praktikum

# KONTRAK KULIAH

# Detail Pemrograman Mobile



**3 SKS**



**8 Jam/Minggu**



**Pemrograman Mobile memberikan pengetahuan dan pemahaman serta cara pembuatan produk berupa aplikasi mobile sehingga dalam mata kuliah ini mahasiswa mampu merancang dan mengimplementasikan sebuah produk aplikasi mobile pada perangkat mobile yang populer.**



# Silabus

- Introduction
- Dasar Pemrograman Flutter 1
- Dasar Pemrograman Flutter 2
- Widget, styling dan logika aplikasi dengan flutter
- Kuis 1
- Navigasi dan multiple screen dengan flutter
- State Management dan User Input
- UTS
- Http request, user auth, dan animasi 1
- Http request, user auth, dan animasi 2
- Native device feature
- Kuis 2
- Proyek
- UAS



# Assesment



**2X Kuis: 20%**

**Tugas: 30% soft copy**

**UTS: 25% Wawancara**

**UAS: 25%**



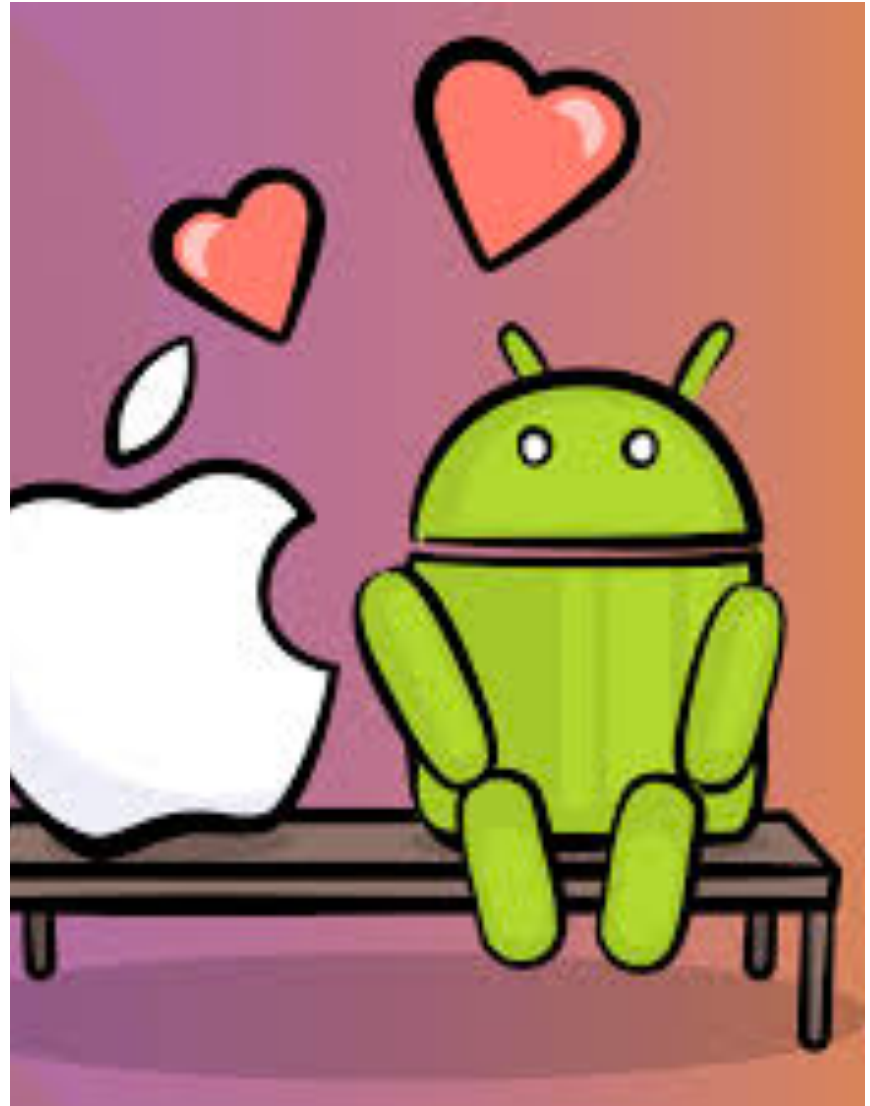
# Capaian Pembelajaran Minggu 1

- Install Flutter SDK di Sistem Operasi Windows
- Install Visual Studio Code
- Install Git
- Konfigurasi Emulator
- Konfigurasi Android Device
- Membuat dan mempublis ke repository

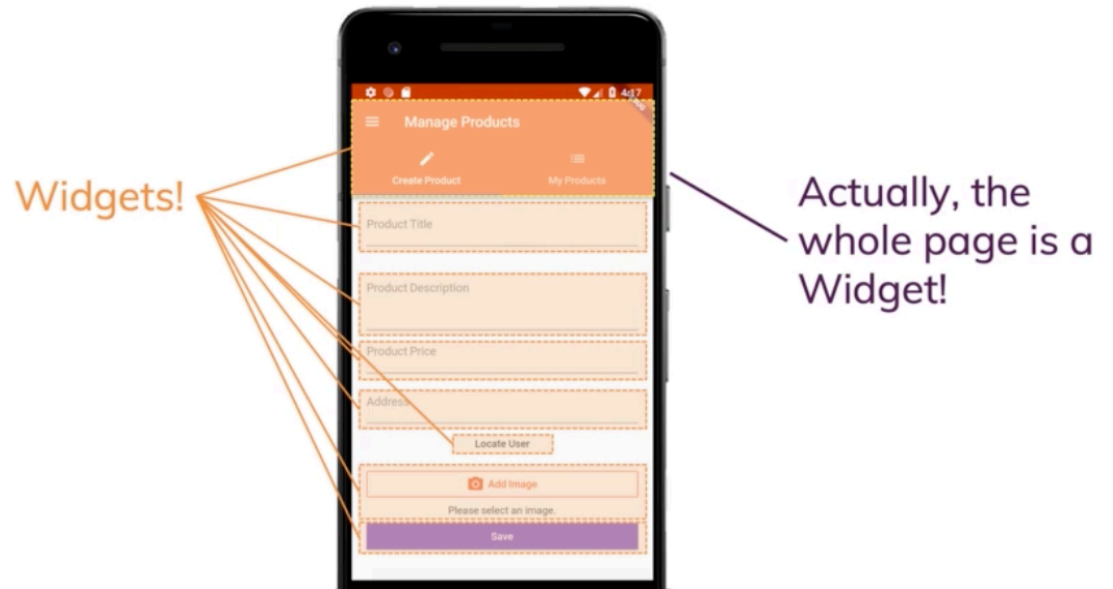
# Flutter

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- ❖ Flutter merupakan open-source **UI software development**.  
Dikembangkan oleh google
- ❖ Digunakan untuk mengembangkan aplikasi android, ios, desktop dan web
- ❖ Menggunakan dart language



# Flutter Arsitektur



UI as Code: Build a  
Widget Tree



Embrace Platform Differences

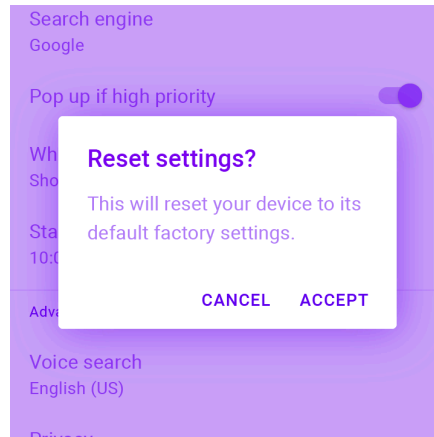


One Codebase

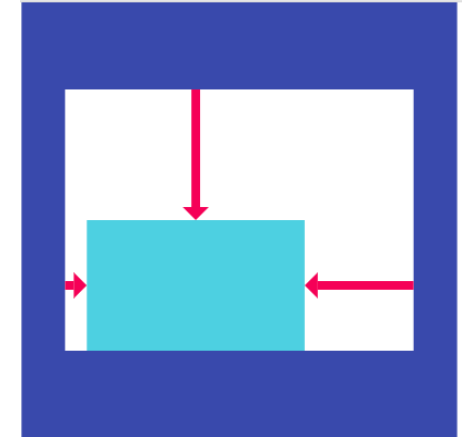
# Contoh Widget

<https://flutter.dev/docs/reference/widgets>

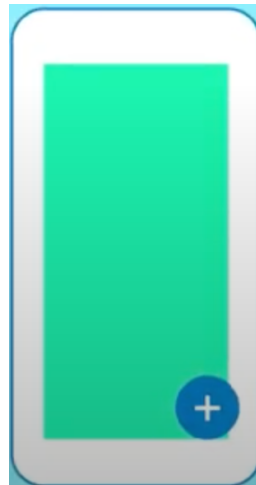
## Alert Dialog



## Align



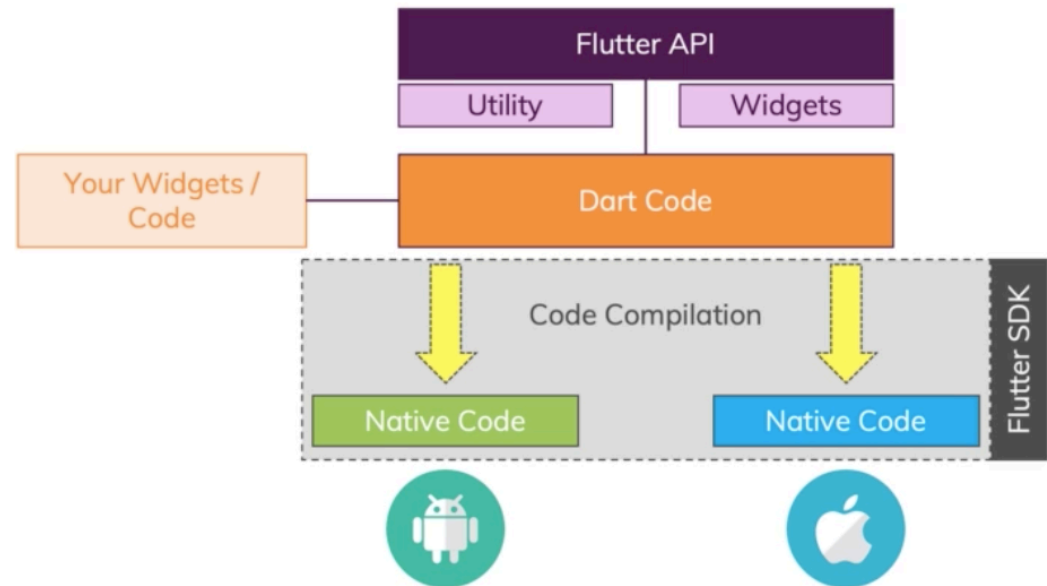
## Floating Action Button



## Fading Widget



# Flutter di Compile ke Native App



# Flutter Alternatif

Flutter	React Native	Ionic
Dart + Flutter	JavaScript / React.js	JavaScript (any or no Framework)
Compiled Native Apps	Partly compiled (UI Components) Native Apps	WebView-hosted Web Apps
Does NOT compile to iOS / Android UI Components	Does compile to iOS / Android UI Components	Does NOT compile to iOS / Android UI Components
Cross-platform (mobile apps, web apps, desktop apps)	Mostly mobile apps (+ React Native Web)	Cross-platform (mobile apps, web apps, desktop apps)
Developed by Google	Developed by Facebook	Developed by Ionic

Pertanyaan







# Praktikum

Jobsheet minggu ke -1

# Referensi

- <https://flutter.dev/docs/reference/widgets>
- <https://www.udemy.com/course/learn-flutter-dart-to-build-ios-android-apps/>
- [https://www.slideshare.net/VishnuSuresh53?utm\\_campaign=profiletracking&utm\\_medium=sssitere&utm\\_source=ssslideview](https://www.slideshare.net/VishnuSuresh53?utm_campaign=profiletracking&utm_medium=sssitere&utm_source=ssslideview)