Related Roadmaps

- React Native Roadmap
- Flutter Roadmap
- iOS Roadmap

Find the detailed version of this roadmap along with other similar roadmaps

roadmap.sh

Android

- Development IDE
- Basics of Kotlin
- Basics of OOP
- Data Structures and Algorithms
- What is and how to use Gradle?
- Create a Basic Hello World App

The Fundamentals

Pick a Language

- Kotlin
- Java

Version Control

- Git
- GitHub
- Bitbucket
- GitLab

VCS Hosting

App Components

- Services
- Content Provider
- Broadcast Receiver
- Intent
  - Implicit Intents
  - Explicit Intents
  - Intent Filters
- Activity
  - Activity LifeCycle
  - State Changes
  - Tasks & Backstack

Interface & Navigation

- Jetpack Compose
- App Shortcuts
- Navigation Components

Layouts

- Frame
- Linear
- Relative
- Constraint
- RecycleView

Elements

- TextView
- Toast
- Fragments
- Dialogs
- Buttons
- Bottom Sheet
- ImageView
- Tabs
- EditText
- Drawer
- ListView
- Animations

Design & Architecture

- Architectural Patterns
  - MVI
  - MVVM
  - MVP
  - MVC
- Design Patterns
- Repository Pattern
- Builder Pattern
- Factory Pattern
- Observer Pattern
  - Flow
  - RxKotlin
  - RxJava
  - LiveData
- Dependency Injection
  - Dagger
  - Hilt
  - Koin
  - Kodein

Storage

- Shared Preferences
- DataStore
- Room Database
- File System

Network

- Retro
- OkHttp
- Apollo-Android

Asynchronism

- Coroutines
- Threads
- RxJava
- RxKotlin
- WorkManager

Common Services

- Authentication
- Crashlytics
- Remote Config
- Cloud Messaging
- FireStore

Firebase

- Google Admob
- Google Play Services
- Google Maps

Testing

- Espresso
- JUnit

Linting

- Ktlint
- Detekt

Debugging

- Timber
- Leak Canary
- Chucker
- Jetpack Benchmark

Distribution

- Signed APK
- Firebase Distribution
- Google Playstore

Ways to distribute

Visit the following relevant roadmaps

iOS | React Native | Flutter