

# Melos in Flutter



Handling multiple Flutter and Dart packages



Flutter Developer



@ Ahmed Hussein  
01114484229



## What is Melos?

Melos is a command-line **tool** designed to manage **monorepos** containing multiple Dart/Flutter packages. It helps automate tasks such as dependency management, versioning, package linking, and running scripts across multiple packages at the same time.



## When to Use Melos?

- You're working on a **monorepo** with multiple Dart/Flutter packages.
- You need to **automate tasks** like testing, linting, or building across packages.
- You want to **streamline** versioning and publishing workflows.
- Your team collaborates on **multiple interdependent packages**.



## Installing Melos

```
1 dart pub global activate melos
```





## Setting Up a Monorepo with Melos (Use Case)

**Two user roles** (Driver & Client) inside your **single Flutter app**:  
Melos helps manage multiple packages/modules inside a single repository. This allows you to:

- ✓ Separate Driver and Client logic into different packages.
- ✓ Share common utilities (e.g., authentication, API handling).
- ✓ Improve scalability for large applications.
- ✓ Enable independent updates for different features.

```
1 // ride_app/
2 // └─ core/ =====> # shared code between all packages
3 //   └─ lib/
4 //     └─ constants.dart
5 //     └─ utils.dart
6 //     └─ shared_widgets.dart
7 //     └─ pubspec.yaml
8 // └─ auth/ =====> # authentication package for login and signup
9 //   └─ lib/
10 //     └─ login_screen.dart
11 //     └─ signup_screen.dart
12 //     └─ auth_service.dart
13 //     └─ pubspec.yaml
14 // └─ client/ =====> # client package for client related features
15 //   └─ lib/
16 //     └─ home_screen.dart
17 //     └─ client_service.dart
18 //     └─ pubspec.yaml
19 // └─ driver/ =====> # driver package for driver related features
20 //   └─ lib/
21 //     └─ home_screen.dart
22 //     └─ driver_service.dart
23 //     └─ pubspec.yaml
24 // └─ app/ =====> # main app package that uses all other packages
25 //   └─ lib/
26 //     └─ main.dart
27 //     └─ pubspec.yaml
28 // └─ melos.yaml =====> # melos configuration file for managing packages
```





## Importance of melos.yaml

melos.yaml is essential for Melos to properly manage and link all packages together in a monorepo structure.



## Melos Bootstrap

Now run this command: **melos bootstrap** to link the local dependencies between packages automatically.  
You will be seeing the following output:

```
● ahmed@ahmeds-MacBook-Air ride_app % melos bootstrap

melos bootstrap
  ↳ /Users/ahmed/Desktop/Flutter projects/Projectes For Me/Linkedin Topics/ride_app

Running "flutter pub get" in workspace packages...
✓ core
  ↳ packages/core
✓ auth
  ↳ packages/auth
✓ client
  ↳ packages/client
✓ driver
  ↳ packages/driver
> SUCCESS

Generating IntelliJ IDE files...
> SUCCESS

-> 4 packages bootstrapped
○ ahmed@ahmeds-MacBook-Air ride_app %
```





**Ahmed Hussein**  
Flutter Developer

**THANK YOU**



**Was This Helpful?**

Like, Share and Follow  
for more Content



Like



Comment



Share



Save

