

It has central control of our project.

Q#01:- What is pubspec.yaml.

It is The file which has metadata

data to describe other form of data.

eg:- mp3

Sections

→ Is ma sh sa phla hota project file ka name

→ description

→ Pub version ata.

→ Environment.

→ dependencies.

→ dev-dependencies.

What to do:-

→ It contains The imp info about app. It's like a resume of app.

→ It helps flutter to understand what our app need to run.

include:-

Declare dependencies (packages our app relies on).

Define app metadata. (provide info e.g. name, version, description etc).

Specify build setting (configure how our app build & develop).

Why it is imp?

without this app can't run smoothly bcz it is crucial file. without this app won't no about what dependencies use and how to build & deploy.

Q:02 Dependencies.

These are the external libraries or packages on which our apps relies.

Why we use?

To save time by using existing libraries.
Improve app performance by using optimize or tested libraries.

Types

- Core dependencies: Essential libraries provided by flutter
eg:- flutter
dart.
- External dependencies: Third party libraries
eg:- Http, firebase-auth
- Dev dependencies: Use for development &

How to add?

Pubspec.yaml: By declaring them in the dependencies section.

pub get: Runs [flutter pub get] in our terminal to fetch & install dependencies.

Best practices.

- Keep them upto date.
- Use correct version
- minimize dependencies.

Q# 03

APIs. (Application programming interface).

These are simply the communicator or resource provider b/w two softwares.

10/10

Date

Good

Q#04

Gradle.

Open source automation tool that help to manage and build software projects.

Primarily used for Java and Android project can also use for other languages.

Why we use it?

Help to manage dependencies, ensuring having the correct version.

It make the process faster and efficient.

Errors..

Outdated dependencies

Gradle can handle and struggle to resolve dependencies leading to errors.

Incorrectly configured build files can lead to error.

Is it necessary for flutter?

NO, But if we are using android app with flutter then we need it.

Is it use in other languages?

Yes - Java, Kotlin, Groovy...

Local storage

→ Application ki speed brhane ka liye, good.

ہم جب بھی login کرتا تو اس کے لئے server سے data چاہیے۔ اس کے لئے Net چاہیے۔

DB

اسی App میں data store کرنے کے لئے استعمال۔

اگر ہم local کو use کریں گے تو

تو سارا data ہم آپس کے ساتھ connect کرنے سے سارا data جو جائے گا۔ اس میں store ہو جائے گا تو جتنا data ہمارے پاس store ہو اس کو۔ وہ Net کے بغیر ہی نظر آئے گا۔

base Structure data level

- 1 → Data Base
- 2 → Table
- 3 → Columns

eg:- → SQLite (To use it in Flutter)

we use a package named)

Aggrigated function in DB

- ↓
- SQLite.
- max
 - Avg
 - min
 - Srs.

Drop
Alter
create
Function
Procedure