

"Mobile Application Development"

→ What is pubspec.yaml?

In Flutter, "pubspec.yaml" is a configuration file that manages the project's dependencies, metadata and assets.

10/10

→ What is Dependencies?

In flutter, dependencies are external packages or libraries that your app needs to function properly.

Types of Dependencies:

- Regular
- Development
- Dependency Sources

→ What is API?

API stands for Application Programming Interface.

It is a set of rules that allow different software applications to communicate with each other.

Type:

Rest APIs, Web APIs, Library APIs

→ What is Gradle?

Gradle is a build automation tool used in flutter to compile, package and manage dependencies for your app-

It helps in:

- Building and compiling the app-
- Managing dependencies
- Handling different environments
- Automating tasks like testing & deployment-

→ What is Local Storage?

Local storage in flutter refers to saving data on the device itself, so the app can access it even when offline. This is useful for storing user performance, cache, authentication tokens or small database.

→ Why use L.S

work offline

Improve app speed

Reduce API call, saving network usage -

(13-03-2025)

Mobile Application Development:

→ What is Emulator?

An emulator is a software or hardware tool that mimics the behaviour of another system, allowing you to run applications or programs designed for that system on a different platform.

Examples:

Android Emulator, VM Emulator -

→ What are Widgets?

Widgets are small, self-contained pieces of codes that perform a specific function or display a particular type of data. They are often used in (GUIs) to provide a way to interact with an application or display information.

Examples:

Buttons, Textfields, Labels, Dropdown Menu -

→ What are Stateless or Statefull Widgets?

In flutter, widgets can be either stateless or statefull -

• Stateless Widgets:

stateless widgets are widgets that do not change over time. They are immutable, meaning their properties cannot be changed once they are created.

Example:

A "Text" widget that displays a fixed string of text.

```
Text ('Hello, World!')
```

• Statefull Widgets:

statefull widgets are widgets that can change overtime. They are mutable meaning their properties are changed after they created.

Stateful widgets are used to create interactive widgets that respond to user input.

Example:

```
Check box (
```

value: - ischecked,

on changed: (bool value) {

```
Set state( () {
```

- is checked = value;

```
});
```

```
},
```

```
)
```

What is Shared Preferences?

Shared preferences is a simple key-value pair storage mechanism in Android and flutter that allow you to store and retrieve data in a file.

It is a light weight and easy to use storage solution that is suitable for storing small amounts of data, such as user preferences, setting or other app-specific data.

→ Max Space:

1MB under Android

→ Datastructure

int, float, boolean, long

XML for iOS, NFUser Default | Android

↳ Shared preferences is like your wallet -