Mobile Application Development Lab

CSL-341

Lab Journal 1



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Table of Contents

TASK 1:	3
TASK 2:	
TASK 3:	
TASK 4:	
TASK 5:	

TASK 1:

Write the main steps involved in Flutter installation.

Installation of Flutter and setting up the environment

STEP 1:

Download Flutter SDK: Go to the <u>Flutter official website</u> and download the SDK for your operating system.

STEP 2:

Extract the File: Unzip the downloaded file to a location on your computer (e.g., C:\flutter (for Windows)).

STEP 3:

Set Environment Variable: Add the Flutter **bin** folder to the system **Path** to use Flutter commands from anywhere.

STEP 4:

Check Dependencies: Open the cmd and run the command:

flutter doctor

STEP 5:

Install Android Studio: Install Android Studio, as it provides the required tools and emulator.

STEP 6:

Install Flutter and Dart Plugins: Open Android Studio, go to **Plugins**, and install **Flutter** and **Dart** plugins.

STEP 7:

Verify Installation: Command will show the installed flutter version flutter –version

TASK 2:

How do you connect your mobile phone in replacement of Virtual Device? Write step by step.

Connect Mobile Instead of Virtual Device (Step-by-Step)

STEP 1:

Enable Developer Mode On your phone

go to **Settings** \rightarrow **About Phone** and tap **Build Number** 7 times to enable **Developer Options**.

STEP 2:

Enable USB Debugging In **Developer Options**, turn on **USB Debugging**.

STEP 3:

Connect Your Phone Use a USB cable to connect your phone to the computer.

STEP 4:

Allow Debugging Access When prompted on your phone, allow debugging access.

STEP 5:

Check Connection Run the following command in the terminal:

flutter devices

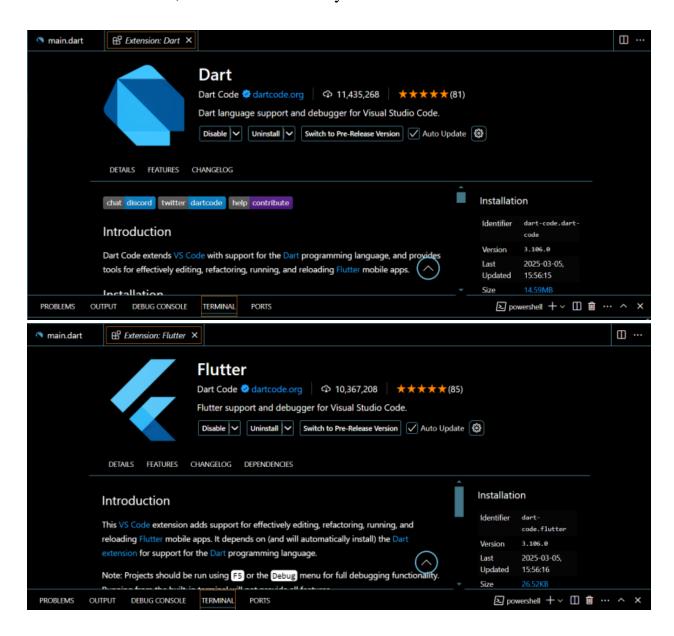
STEP 6:

If your phone appears in the list, it is connected successfully. **Run the Flutter App** – Use:

flutter run

TASK 3:

In VS Code, which extension do you install for flutter and Dart?



TASK 4:

How can we create a flutter project?

STEP 1:

Open VS Code.

STEP 2:

Open the Command Palette.

STEP 3:

Type "Flutter: New Project" and select it.

STEP 4:

Choose "Flutter Application" as the project type.

STEP 5:

Enter a project name.

STEP 6:

Select a folder where you want to save the project.

STEP 7:

Wait for dependencies to install

TASK 5:

What is the advantage of setting path in environment variables?

- > Flutter commands may be used without going to the Flutter folder in any terminal or command prompt.
- > It is no longer necessary to manually navigate to the Flutter installation location every time.
- ➤ Work is done worldwide by commands such as flutter doctor, flutter run, and flutter create.
- ➤ Other programs, such as Android Studio and Visual Studio Code, are able to immediately identify Flutter.
- > The system won't recognize Flutter instructions if the path isn't defined, which might lead to failures