

MPL Lab: Experiment No.1

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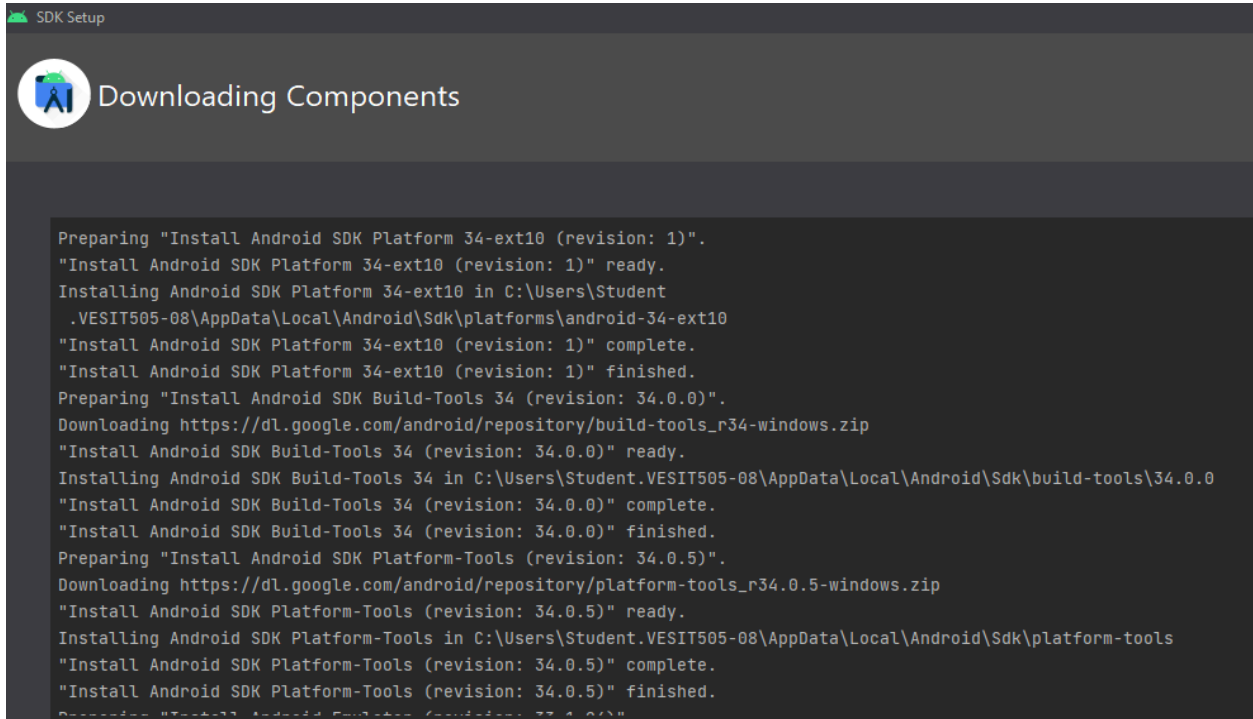
Aim: Installation and Configuration of Flutter Environment.

Flutter download and install:

The image shows the Flutter website's 'Download and install' page. The page title is 'Download then install Flutter'. It provides instructions for downloading the Flutter SDK. The first step is to download the installation bundle for the latest stable release, which is `flutter_windows_3.16.7-stable.zip`. The second step is to create a folder where you can install Flutter, with a note to consider `%USERPROFILE%` or `C:\dev`. The page also includes a 'Contents' sidebar with links to 'System requirements', 'Hardware requirements', 'Software requirements', 'Configure a text editor or IDE', 'Install the Flutter SDK', 'Check your development setup', 'Run Flutter doctor', and 'Troubleshoot Flutter doctor issues'. A Google cookie notice is visible at the bottom of the website.

Below the website screenshot, a Windows command prompt window is shown. The command prompt is titled 'Command Prompt - flutter run'. The user has navigated to the Flutter bin directory and run the `flutter run` command. The output shows the Flutter tool's welcome message and instructions for disabling analytics and animations. The command prompt is also showing a list of files in the current directory, including `ADMT_V_2023_24`, `2023_24_V_D15A_IP`, `D15A-Security Lab-Odd Se...`, and `D15A`.

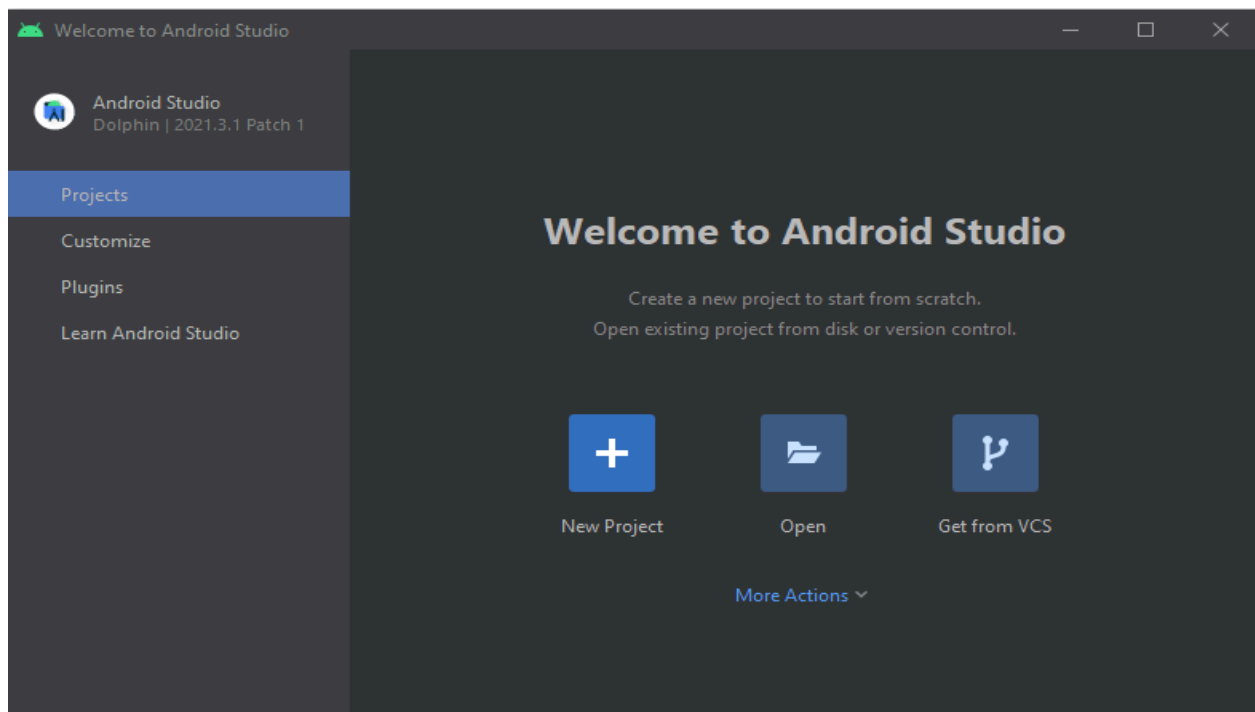
Android Studio installation:



SDK Setup

Downloading Components

```
Preparing "Install Android SDK Platform 34-ext10 (revision: 1)".
"Install Android SDK Platform 34-ext10 (revision: 1)" ready.
Installing Android SDK Platform 34-ext10 in C:\Users\Student
.VESIT505-08\AppData\Local\Android\Sdk\platforms\android-34-ext10
"Install Android SDK Platform 34-ext10 (revision: 1)" complete.
"Install Android SDK Platform 34-ext10 (revision: 1)" finished.
Preparing "Install Android SDK Build-Tools 34 (revision: 34.0.0)".
Downloading https://dl.google.com/android/repository/build-tools_r34-windows.zip
"Install Android SDK Build-Tools 34 (revision: 34.0.0)" ready.
Installing Android SDK Build-Tools 34 in C:\Users\Student.VESIT505-08\AppData\Local\Android\Sdk\build-tools\34.0.0
"Install Android SDK Build-Tools 34 (revision: 34.0.0)" complete.
"Install Android SDK Build-Tools 34 (revision: 34.0.0)" finished.
Preparing "Install Android SDK Platform-Tools (revision: 34.0.5)".
Downloading https://dl.google.com/android/repository/platform-tools_r34.0.5-windows.zip
"Install Android SDK Platform-Tools (revision: 34.0.5)" ready.
Installing Android SDK Platform-Tools in C:\Users\Student.VESIT505-08\AppData\Local\Android\Sdk\platform-tools
"Install Android SDK Platform-Tools (revision: 34.0.5)" complete.
"Install Android SDK Platform-Tools (revision: 34.0.5)" finished.
```



Installation for Android Emulator:

SDK Setup



Downloading Components

Installing

Preparing "Install Android Emulator (revision: 33.1.24)".

New Project

Completing Requested Actions

SDK Path: C:\Users\Student.VESIT505-08\AppData\Local\Android\Sdk


Packages to install: - Android SDK Platform 32 (platforms;android-32)

Preparing "Install Android SDK Platform 32 (revision: 1)".

Downloading https://dl.google.com/android/repository/platform-32_r01.zip

Unzipping...

android-12/data/res/drawable-hdpi/sym_keyboard_feedback_space.png

 Please wait until the requested actions are completed.

Previous

Next

Cancel

Finish

Code:

```
import 'package:flutter/material.dart';

void main() {
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(

        colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
        useMaterial3: true,
      ),
      home: const MyHomePage(title: 'Flutter Demo Home Page'),
    );
  }
}

class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key, required this.title});

  final String title;

  @override
  State<MyHomePage> createState() => _MyHomePageState();
}

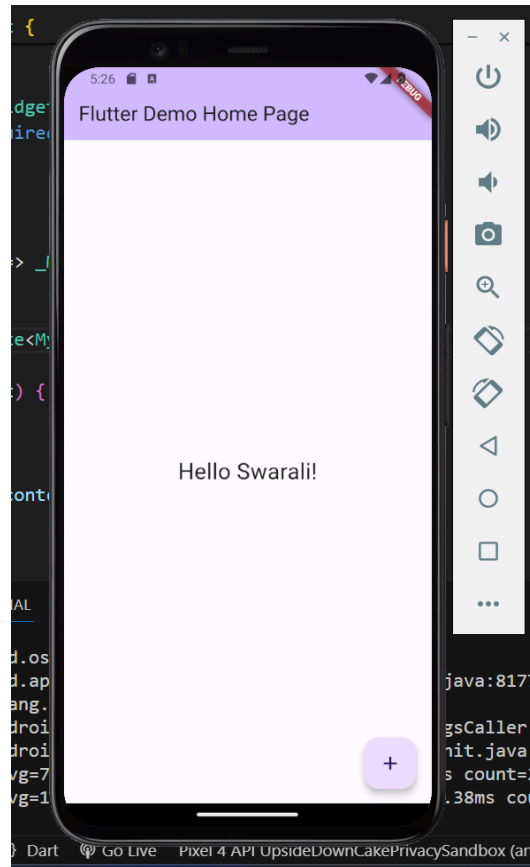
class _MyHomePageState extends State<MyHomePage> {
  @override
```

```
Widget build(BuildContext context) {

  return Scaffold(
    appBar: AppBar(
      backgroundColor: Theme.of(context).colorScheme.inversePrimary,
      title: Text(widget.title),
    ),
    body: Center(
      child: Column(

        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget>[
          const Text(
            'Hello Swarali!',
            style: TextStyle(
              fontSize: 24,
            ),
          ),
        ],
      ),
    );
}
```

Output:



Conclusion: Flutter and Android Studio have been installed and configured.