

Project Title: BigBasket

RollNo. 27

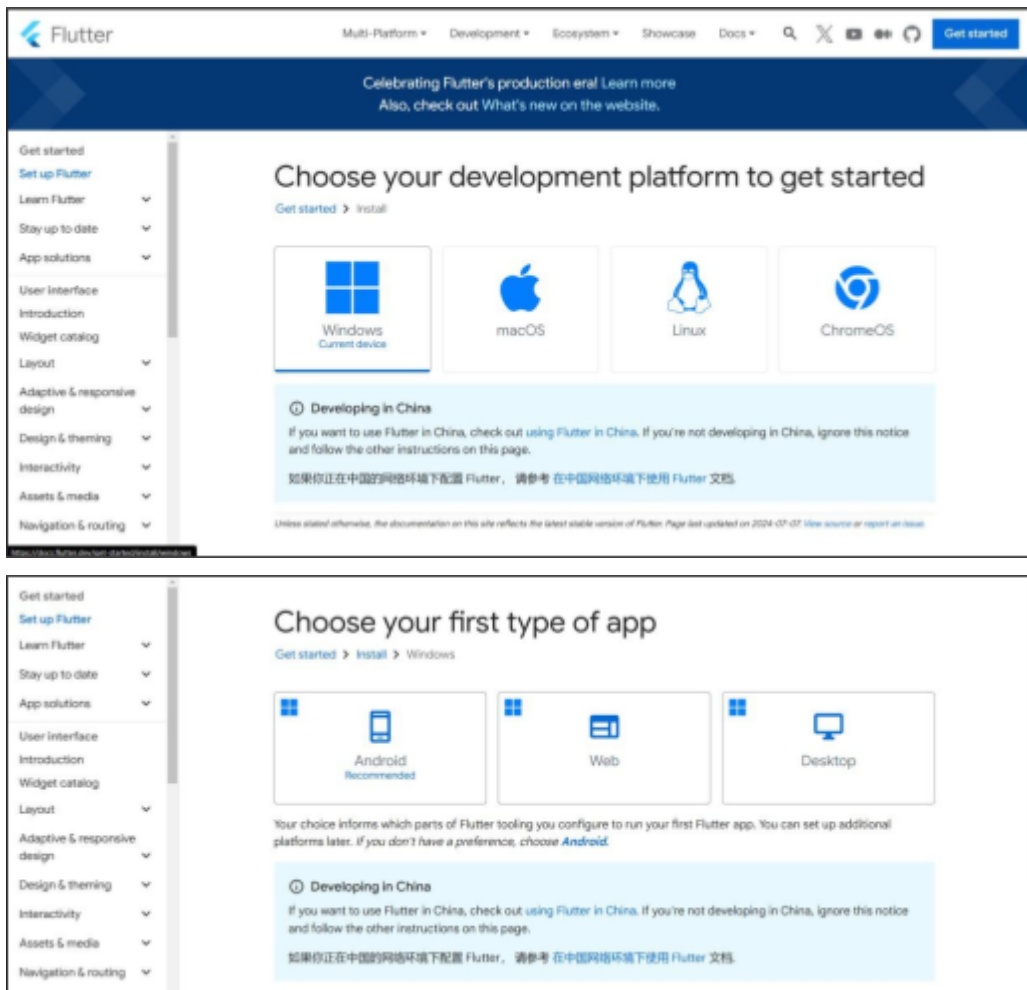
MAD & PWA Lab Journal

Experiment No.	01
Experiment Title.	To install and configure the Flutter Environment
Roll No.	27
Name	Rujuta Medhi
Class	D15A
Subject	MAD & PWA Lab
Lab Outcome	LO1: Understand cross platform mobile application development using Flutter framework
Grade:	

AIM : Installation and Configuration of Flutter Environment.

Step 1: Install Flutter : Download Flutter SDK:

- Go to the Flutter website.
- Download the Flutter SDK for your operating system



Step 2: Extract Flutter SDK: Extract the downloaded .zip file to your desired directory

Step 3: Add Flutter to PATH

- Search for "Environment Variables" in the Start menu.
- Under System Properties → Advanced → Environment Variables, find the Path variable under "System Variables."
- Add the Flutter SDK's bin directory (e.g., C:\flutter\bin) to the PATH.

Now, select path -> click on edit. The following screen appears

In the above window, click on New->write path of Flutter bin folder in variable value -
> ok -> ok -> ok.

Step 4: Now, run the \$ flutter command in command prompt.

```
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rugved>flutter
Manage your Flutter app development.

Common commands:

  flutter create <output directory>
    Create a new Flutter project in the specified directory.

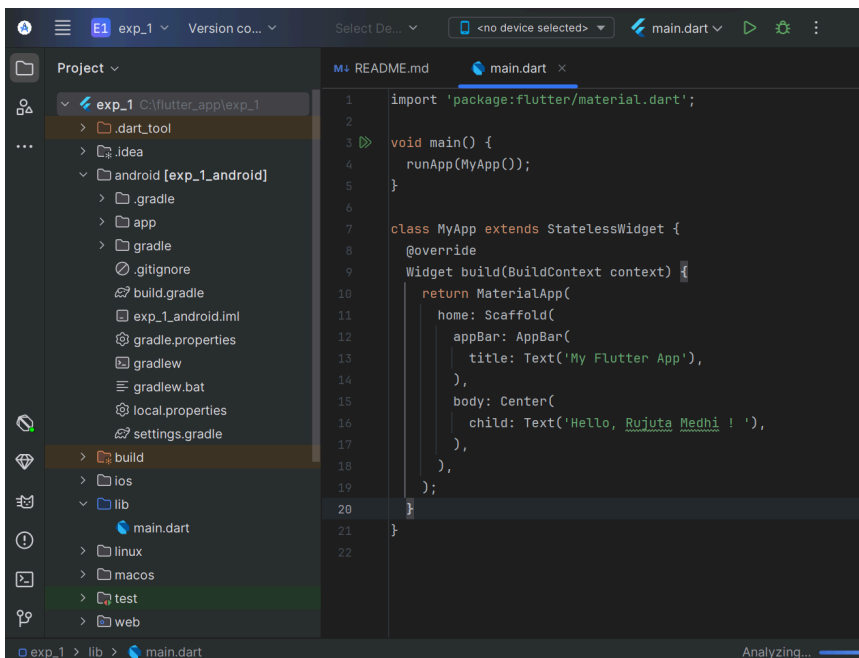
  flutter run [options]
    Run your Flutter application on an attached device or in an emulator.

Usage: flutter <command> [arguments]

Global options:
-h, --help                Print this usage information.
-v, --verbose              Noisy logging, including all shell commands executed.
                           If used with "--help", shows hidden options. If used with "flutter doctor", shows additional
                           diagnostic information. (Use "-vv" to force verbose logging in those cases.)
-d, --device-id            Target device id or name (prefixes allowed).
--version                 Reports the version of this tool.
--enable-analytics         Enable telemetry reporting each time a flutter or dart command runs.
--disable-analytics       Disable telemetry reporting each time a flutter or dart command runs, until it is
                           re-enabled.
--suppress-analytics       Suppress analytics reporting for the current CLI invocation.
```

Flutter is installed successfully

Step 5: Install the Android SDK. If the flutter doctor command does not find the Android SDK tool in your system, then you need first to install the Android Studio IDE.



Step 6: Run Flutter Doctor command

```
C:\Users\rugved>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[✓] Flutter (Channel stable, 3.27.3, on Microsoft Windows [Version 10.0.22631.4602], locale en-IN)
[✓] Windows Version (Installed version of Windows is version 10 or higher)
[✓] Android toolchain - develop for Android devices (Android SDK version 35.0.0)
[✓] Chrome - develop for the web
[✓] Visual Studio - develop Windows apps (Visual Studio Build Tools 2022 17.11.0)
[✓] Android Studio (version 2024.1)
[✓] VS Code (version 1.96.4)
[✓] Connected device (3 available)
[✓] Network resources

• No issues found!
```

Step 7: Create a new virtual device

Choose your device definition and click on Next.

Select the system image for the latest Android version and click on Next. Now, verify the all AVD configuration. If it is correct, click on Finish. The following screen

Once virtual device is created writing a hello name program in flutter:

```
1  import 'package:flutter/material.dart';
2
3  void main() {
4    runApp(MyApp());
5  }
6
7  class MyApp extends StatelessWidget {
8    @override
9    Widget build(BuildContext context) {
10     return MaterialApp(
11       home: Scaffold(
12         appBar: AppBar(
13           title: Text('My Flutter App'),
14         ), // AppBar
15         body: Center(
16           child: Text('Hello, Rujuta Medhi ! '),
17         ), // Center
18       ), // Scaffold
19     ); // MaterialApp
20   }
21 }
22
```

