University Institute of Engineering, Chandigarh University

Department of Computer Science & Engineering

Phase I (Project Scope, Planning and Task Definition)

Date: 21/03/2023

Project Title: -

Simple Calculator App using Flutter

Project Team

Team Designation	Name	UID	Section
Lead	JATIN	20BCS5951	20BCS-DM-605-B
Member1	MANIK VERMA	20BCS1994	20BCS-DM-605-A
Member2	ANKUSH KUMAR	20BCS2553	20BCS-DM-605-A
Member 3	OMINDER SINGH	20BCS7887	20BCS-DM-605-A

Project Scope

Flutter SDK is an open-source software development kit for building beautiful UI which is natively compiled. In this article we will build a Simple Calculator App that can perform basic arithmetic operations like addition, subtraction, multiplication or division depending upon the user input. Making this app will give you a good revision of flutter and dart basics. Concepts covered are:

- Showing Widgets on the screen.

- Gridview.builder

- Function writing

- If and else in dart

PROJECT PLANNING/FEATURES:

The app should:

1. Step 1: Creating a Flutter App

Open the Terminal /Command-prompt. Change Directory to your choice and run flutter create calculatorApp.
Open the calculatorApp in VS Code or Android Studio.
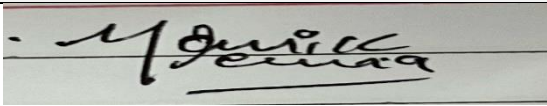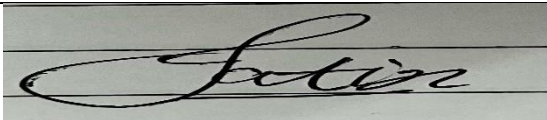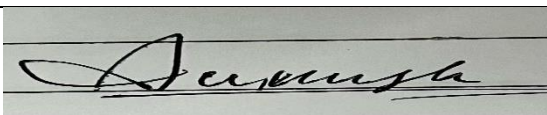
2. Step 2: Coding Calculator App

In the Lib folder, there is a main.dart file already present. And now in the same folder create a new file named buttons.dart. Starting with main.dart file. Create MyApp class and make it StatelessWidget. Add an array of buttons to be displayed. Set the background-color, text-color, functionality onTapped to the buttons.

3. Step 3: Building the buttons.dart

In buttons.dart which is already imported in main.dart file we are declaring variables that will be used throughout the program using a constructor. The color, text color, button text, and the functionality of the button on tapped will be implemented in main.dart file.

4. Step 4: Adding dependencies in pubspec.yaml file

To make the process easier we are using math_expressions: ^2.0.0 package which is imported in main.dart file to handle all the calculations and run time error exceptions.

Project ID (If selected from project basket)				NA						
Project Outcome (Tick the Column)		Patent		Journal Paper		S/W Project	✓	H/W + S/W Project		Other
Remark of Supervisor										
Name of Supervisor		JIVESH						Signature		
Name of Co-Supervisor								Signature		

S.No.	Name of the Students	Contact No.	Signature
1.	MANIK VERMA	8057574500	
2.	JATIN THAKUR	6230909859	
3.	ANKUSH KUMAR	9896511500	

| 4. | OMINDER SINGH | 8396886866 | |

Signature

(Project Teacher)