# Flutter Student App - Project Report

## 1. Introduction

This project, titled 'Flutter Student App', is a simple Flutter-based mobile application designed to demonstrate the use of widgets, theming, and user interaction through a Floating Action Button (FAB) and SnackBar. The app displays the student's name on the main screen and shows a personalized message when the FAB is pressed.

## 2. Objective

The primary objective of this project is to provide a beginner-friendly example of how Flutter can be used to build a modern, interactive mobile interface with minimal code. It helps learners understand basic Flutter concepts such as MaterialApp, Scaffold, AppBar, Text, FloatingActionButton, and SnackBar.

## 3. Tools and Technologies

• Flutter SDK (latest stable version)  
• Dart programming language  
• Android Studio / Visual Studio Code  
• Material Design 3 framework

## 4. Features

• Displays the student's name: 'Saliha Nishad Farid'  
• Uses a teal-colored Material 3 theme  
• Floating Action Button triggers a SnackBar message  
• Clean and minimal user interface  
• SnackBar disappears automatically after 2 seconds

## 5. Code Explanation

The application consists of a single Dart file named main.dart, which defines two classes: MyApp and HomePage.  
  
• MyApp: Serves as the root widget of the application. It sets up the MaterialApp with the app title, theme, and home page.  
• HomePage: Displays the student's name at the center of the screen and includes a Floating Action Button. When pressed, it shows a SnackBar with a personalized message.

## 6. Workflow

1. The app launches and displays the name 'Saliha Nishad Farid' at the center.  
2. The Floating Action Button with a message icon appears at the bottom right.  
3. When the user presses the button, a SnackBar appears at the bottom of the screen with the message:  
 'Hello, Saliha Nishad Farid! This is a SnackBar.'  
4. The SnackBar automatically disappears after 2 seconds.

## 7. Output

The output of the application is a visually appealing Flutter app with a centered text display of the student's name and an interactive SnackBar triggered by the Floating Action Button.

## 8. Conclusion

The Flutter Student App serves as a simple yet effective example of how Flutter can be used to build interactive and user-friendly mobile applications. It demonstrates key Flutter widgets, Material Design principles, and event handling in a clean and easy-to-understand manner.

## 9. Author

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