Class Work 3 – Flutter: App Development  
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**Code for Flutter App:**import 'package:flutter/material.dart'; *// Imports Flutter's material design package for building UI elements*

void main() {

  runApp(const FlutterApp()); *// The main entry point of the Flutter app, runs FlutterApp widget*

}

class FlutterApp extends StatelessWidget {

  const FlutterApp({super.key}); *// Constructor for the FlutterApp widget, with a constant key*

  @override

  Widget build(BuildContext context) {

    return MaterialApp(

      title: 'Class Work 3 - Flutter App', *// Sets the title of the app*

      theme: ThemeData(

*// Defines color scheme with a seed color*

        colorScheme: ColorScheme.fromSeed(seedColor: const Color.fromARGB(255, 38, 0, 255)),

        useMaterial3: true, *// Enables Material 3 design features*

      ),

*// Sets PersonalInfoScreen as the home screen*

      home: const PersonalInfoScreen(title: 'Class Work 3 - Flutter App'),

    );

  }

}

class PersonalInfoScreen extends StatelessWidget {

*// Constructor for PersonalInfoScreen with required title*

  const PersonalInfoScreen({super.key, required this.title});

  final String title; *// Stores the title for the screen*

  @override

  Widget build(BuildContext context) {

    return Scaffold(

      appBar: AppBar(

        backgroundColor: Theme.of(context).colorScheme.inversePrimary, *// Sets the app bar's background color*

        title: Text(

          title, *// Displays the screen title in the app bar*

          style: const TextStyle(

            fontFamily: 'Roboto', *// Sets font to Roboto*

            fontSize: 22, *// Sets font size to 22*

            fontWeight: FontWeight.bold, *// Makes text bold*

            color: Color.fromARGB(255, 0, 0, 0), *// Sets text color to black*

          ),

        ),

      ),

      body: Container(

        decoration: const BoxDecoration(

          image: DecorationImage(

            image: AssetImage('assets/background.jpg'), *// Sets background image from assets*

            fit: BoxFit.cover, *// Scales the image to cover the entire screen*

          ),

        ),

        child: const Center(

          child: Column(

            mainAxisAlignment: MainAxisAlignment.center, *// Centers column contents vertically*

            children: <Widget>[

              Text(

                'Andrei Koshelev', *// Displays name*

                style: TextStyle(

                  fontFamily: 'Courier New', *// Sets font to Courier New*

                  fontSize: 26, *// Sets font size to 26*

                  fontWeight: FontWeight.bold, *// Makes text bold*

                  color: Colors.blueAccent, *// Sets text color to blue accent*

                  backgroundColor: Colors.white54, *// Adds semi-transparent white background*

                ),

              ),

              SizedBox(height: 12), *// Adds vertical spacing of 12 pixels*

              Text(

                '100894383', *// Displays Banner ID*

                style: TextStyle(

                  fontFamily: 'Arial', *// Sets font to Arial*

                  fontSize: 20, *// Sets font size to 20*

                  color: Colors.teal, *// Sets text color to teal*

                  backgroundColor: Colors.white54, *// Adds semi-transparent white background*

                ),

              ),

              SizedBox(height: 12), *// Adds vertical spacing of 12 pixels*

              Text(

                'INFT 3101-02', *// Displays class and section*

                style: TextStyle(

                  fontFamily: 'Georgia', *// Sets font to Georgia*

                  fontSize: 20, *// Sets font size to 20*

                  color: Colors.deepPurple, *// Sets text color to deep purple*

                  backgroundColor: Colors.white54, *// Adds semi-transparent white background*

                ),

              ),

              SizedBox(height: 12), *// Adds vertical spacing of 12 pixels*

              Padding(

                padding: EdgeInsets.all(12.0), *// Adds padding of 12 pixels around the quote text*

*// Displays favorite quote*

                child: Text(

                  '"I would rather be hated for who I am, than loved for who I am not." - Kurt Cobain',

                  style: TextStyle(

                    fontFamily: 'Roboto', *// Sets font to Roboto*

                    fontSize: 18, *// Sets font size to 18*

                    fontStyle: FontStyle.italic, *// Makes text italic*

                    color: Colors.redAccent, *// Sets text color to red accent*

                    backgroundColor: Colors.white54, *// Adds semi-transparent white background*

                  ),

                  textAlign: TextAlign.center, *// Centers the quote text horizontally*

                ),

              ),

            ],

          ),

        ),

      ),

    );

  }

}

A screenshot of a computer

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A computer screen shot of a program

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A screenshot of a computer screen

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**Screenshot of the app output in the Android Studio emulator:**  
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**Screenshots of the app output in the external emulator (BlueStacks)**  
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**Reflection:**

I encountered several challenges while completing this assignment. I spent a long time trying to configure Flutter to work correctly. Still, when I fixed one error, another one immediately appeared, so I spent additional time eliminating all the errors before starting to work on the main code. Then I had difficulties connecting to the Android Studio emulator, for which the finished application took a lot of time to boot up correctly. After some debugging, I was able to fully configure it, avoiding any other errors. Also, connecting the emulator from BlueStacks was quite simple and did not cause me any difficulties at all. Comparing Class Work 1 and Class Work 3, it can be said that the task for Class Work 1 was much easier because it was just enough to install only Android App Studio and from there I already had access to the built-in emulators (Device Manager), the code itself was quite easy to write and setting up the application overlay was intuitive; The only disadvantage can be a constant manual update for testing on external emulators, such as Blue Stacks. Speaking about the task provided in Class Work 3, I had to separately install Flutter SDK, configure it on my system, then in the VC Code and then separately configure Android App Studio and Blue Stacks for the correct use of emulators; The advantage is the centralized storage of the code in the same VC Code, and it is quite easy to connect to external emulators, having configured them in advance, and the code update is reflected in real-time by updating the application running on any of the emulators. Overall, I enjoyed programming on Flutter, and I also enjoyed the process of troubleshooting when connecting different emulators to check the functionality of the application along with the configuration of the Flutter itself.