# MAD LAB EXPT 4

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**Aim: To make an interactive form using Widgets.**

**Output:**

```dart
import 'dart:math';
import 'dart:typed_data';

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

class Utils {
  Size getScreenSize() {
    return MediaQueryData.fromWindow(WidgetsBinding.instance!.window).size;
  }

  showSnackBar({required BuildContext context, required String content}) {
    ScaffoldMessenger.of(context).showSnackBar(
      SnackBar(
        backgroundColor: Colors.orange,
        shape: const RoundedRectangleBorder(
          borderRadius: BorderRadius.only(
            topLeft: Radius.circular(10),
            topRight: Radius.circular(10),
          ),
        ),
        content: SizedBox(
          width: getScreenSize().width,
          child: Row(
            mainAxisAlignment: MainAxisAlignment.center,
            children: [
              Text(
                content,
                maxLines: 2,
                overflow: TextOverflow.ellipsis,
              ),
            ],
          ),
        ),
      ),
    );
```

```
  }

  Future<Uint8List?> pickImage() async {
    ImagePicker picker = ImagePicker();
    XFile? file = await picker.pickImage(source: ImageSource.gallery);
    return file!.readAsBytes();
  }

  String getUid() {
    return (100000 + Random().nextInt(10000)).toString();
  }
}
```



## Sign-Up

**Name**

Enter your name

**Address**

Enter your address

**Email**

Enter your email

**Password**

Enter your password

Sign Up

Back

```dart
class HomeScreen extends StatefulWidget {
  const HomeScreen({Key? key}) : super(key: key);

  @override
  State<HomeScreen> createState() => _HomeScreenState();
}

class _HomeScreenState extends State<HomeScreen> {
  ScrollController controller = ScrollController();
  double offset = 0;
  List<Widget>? discount70;
  List<Widget>? discount60;
  List<Widget>? discount50;
  List<Widget>? discount0;

  @override
  void initState() {
    super.initState();
    getData();
    controller.addListener(() {
      setState(() {
        offset = controller.position.pixels;
      });
    });
  }

  @override
  void dispose() {
    super.dispose();
    controller.dispose();
  }

  void getData() async {
    List<Widget> temp70 =
        await CloudFirestoreClass().getProductsFromDiscount(70);
    List<Widget> temp60 =
        await CloudFirestoreClass().getProductsFromDiscount(60);
    List<Widget> temp50 =
        await CloudFirestoreClass().getProductsFromDiscount(50);
    List<Widget> temp0 = await CloudFirestoreClass().getProductsFromDiscount(0);
    print("everything is done");
    setState(() {
      discount70 = temp70;
      discount60 = temp60;
```

```dart
        discount50 = temp50;
        discount0 = temp0;
    });
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: SearchBarWidget(
        isReadOnly: true,
        hasBackButton: false,
      ),
      body: discount70 != null &&
              discount60 != null &&
              discount50 != null &&
              discount0 != null
          ? Stack(
              children: [
                SingleChildScrollView(
                  controller: controller,
                  child: Column(
                    children: [
                      SizedBox(
                        height: kAppBarHeight / 2,
                      ),
                      CategoriesHorizontalListViewBar(),
                      AdBannerWidget(),
                      ProductsShowcaseListView(
                          title: "Upto 70% Off", children: discount70!),
                      ProductsShowcaseListView(
                          title: "Upto 60% Off", children: discount60!),
                      ProductsShowcaseListView(
                          title: "Upto 50% Off", children: discount50!),
                      ProductsShowcaseListView(
                          title: "Explore", children: discount0!),
                    ],
                  ),
                ),
                UserDetailsBar(
                  offset: offset,
                ),
              ],
            )
          : const LoadingWidget(),
```

```
  );
}}
```



**Conclusion: An interactive form using Widgets has been created in Flutter application.**