MAD LAB EXPT 4

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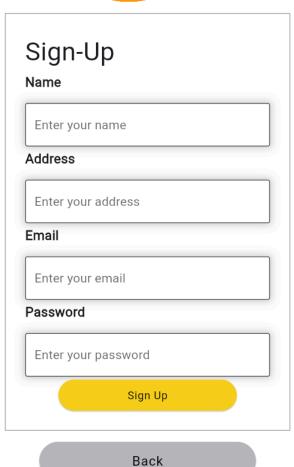
Aim: To make an interactive form using Widgets.

Output:

```
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();
    }
}
```

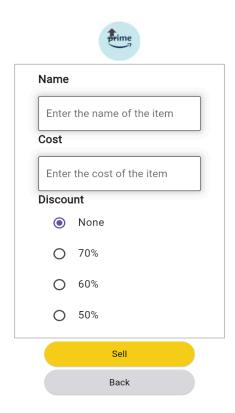




```
class HomeScreen extends StatefulWidget {
 const HomeScreen({Key? key}) : super(key: key);
 @override
 State<HomeScreen> createState() => _HomeScreenState();
}
class _HomeScreenState extends State<HomeScreen> {
 ScrollController controller = ScrollController();
 double offset = 0;
 List<Widget>? 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;
```

```
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(),
```

```
);
}}
```



<u>Conclusion: An interactive form using Widgets has been created in Flutter application.</u>