flutter pub add image_picker

flutter pub add firebase_storage

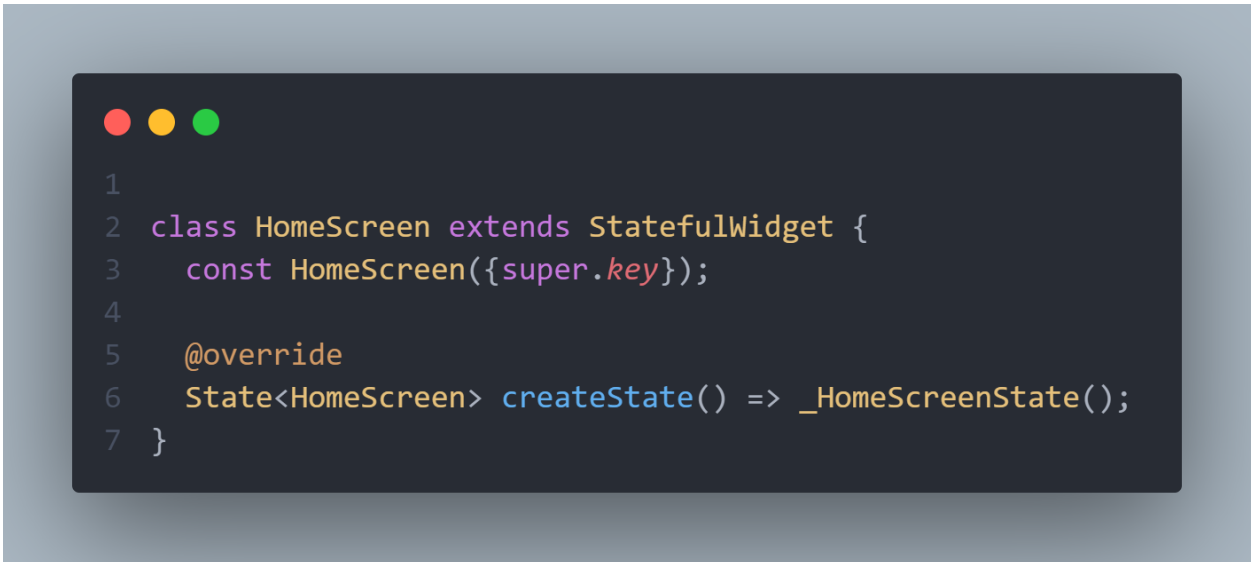
flutter build apk --release

main.dart

```dart
void main() async {
  WidgetsFlutterBinding.ensureInitialized();

  await Firebase.initializeApp(
    options: DefaultFirebaseOptions.currentPlatform,
  );

  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return const MaterialApp(
      debugShowCheckedModeBanner: false,
      home: HomeScreen(),
    );
  }
}
```

home_screen.dart

image #1



```dart

class HomeScreen extends StatefulWidget {
  const HomeScreen({super.key});

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

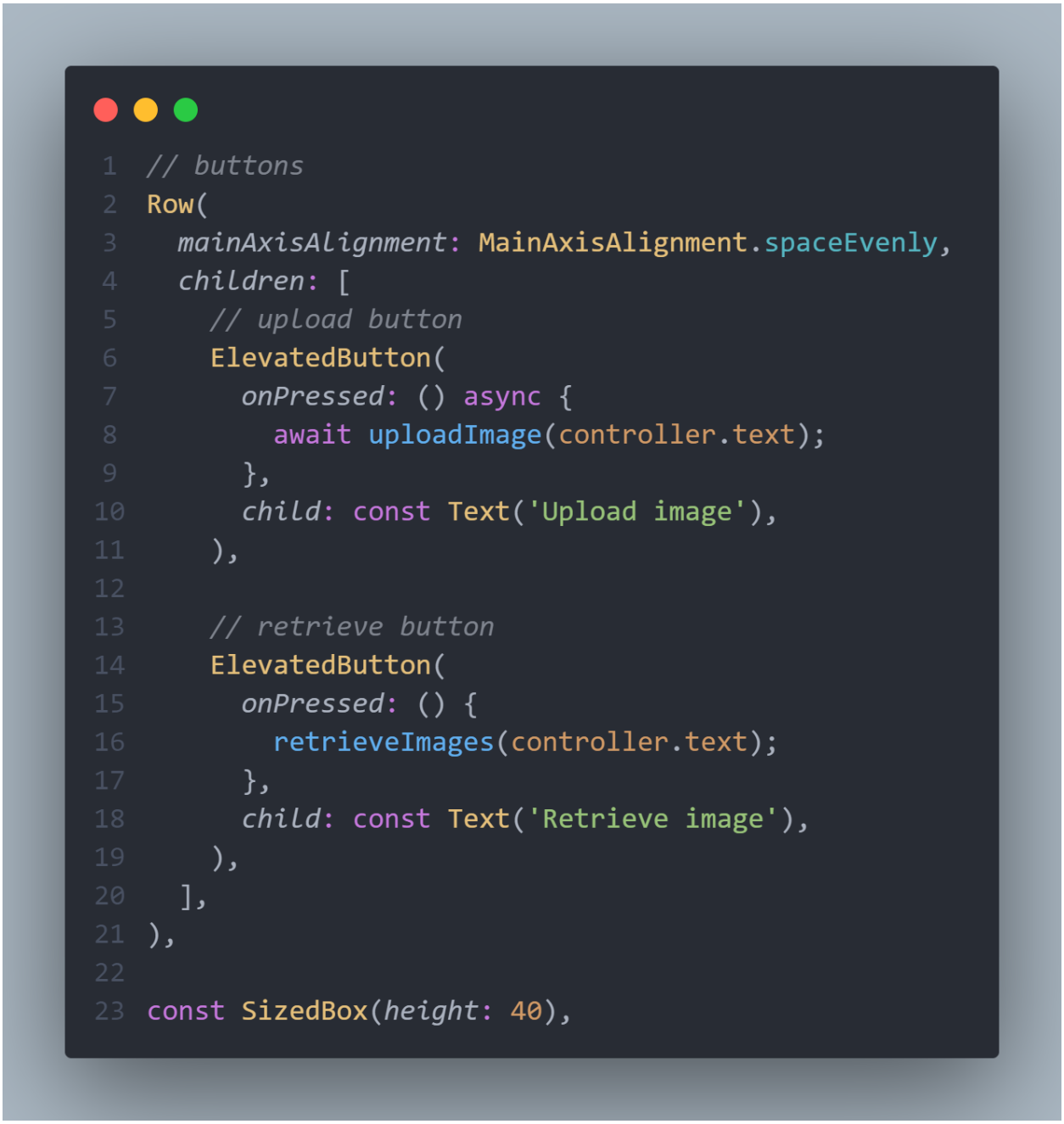
image #2

```dart
class _HomeScreenState extends State<HomeScreen> {
  final TextEditingController controller = TextEditingController();

  List<String> imageUrls = [];

  @override
  Widget build(BuildContext context) {
    return SafeArea(
      child: Scaffold(
        body: SingleChildScrollView(
          child: Padding(
            padding: const EdgeInsets.all(20),
            child: Column(
              children: [
```

image #3


// enter user id
TextFormField(
controller: controller,
decoration: InputDecoration(
labelText: 'Enter user id',
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(10),
),
),
keyboardType: TextInputType.number,
),
const SizedBox(height: 40),

image #4



```dart
// buttons
Row(
  mainAxisAlignment: MainAxisAlignment.spaceEvenly,
  children: [
    // upload button
    ElevatedButton(
      onPressed: () async {
        await uploadImage(controller.text);
      },
      child: const Text('Upload image'),
    ),

    // retrieve button
    ElevatedButton(
      onPressed: () {
        retrieveImages(controller.text);
      },
      child: const Text('Retrieve image'),
    ),
  ],
),

const SizedBox(height: 40),
```

image #5

```
                // images list
                if (imageUrls.isNotEmpty)
                  ListView.separated(
                    shrinkWrap: true,
                    physics: const NeverScrollableScrollPhysics(),
                    itemBuilder: (context, index) {
                      return Container(
                        height: 250,
                        width: double.infinity,
                        decoration: BoxDecoration(
                          image: DecorationImage(
                            image: NetworkImage(
                              imageUrls[index],
                            ),
                            fit: BoxFit.cover,
                          ),
                          borderRadius: BorderRadius.circular(10),
                        ),
                      );
                    },
                    separatorBuilder: (context, index) {
                      return const SizedBox(height: 20);
                    },
                    itemCount: imageUrls.length,
                  ),
              ],
            ),
          ),
        ),
      ),
    );
}
```

image #6

```dart
Future<void> uploadImage(String userId) async {
    if (userId.isEmpty) {
      return;
    }
    final picker = ImagePicker();
    final pickedFile = await picker.pickImage(source: ImageSource.gallery);

    if (pickedFile != null) {
      final file = await pickedFile.readAsBytes();

      final ref = FirebaseStorage.instance
          .ref('$userId/${pickedFile.path.split('/').last}');

      ref.putData(file).then(
        (_) async {
          await retrieveImages(controller.text);
        },
      ).catchError(
        (error) {
          print('Error occurred: $error');
        },
      );
    }
  }
```

image #7

```dart
Future<void> retrieveImages(String userId) async {
    try {
      if (userId.isEmpty) {
        return;
      }

      imageUrls.clear();

      final firebaseStorageReference = FirebaseStorage.instance.ref(userId);
      final ListResult listResult = await firebaseStorageReference.listAll();

      for (var ref in listResult.items) {
        String url = await ref.getDownloadURL();
        setState(() {
          imageUrls.add(url);
        });
      }
    } catch (e) {
      print('Error occured: $e');
    }
  }
}
```

Whole code in one image 👇🏻

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

class HomeScreen extends StatefulWidget {
  const HomeScreen({super.key});

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

class _HomeScreenState extends State<HomeScreen> {
  final TextEditingController controller = TextEditingController();

  List<String> imageUrls = [];

  @override
  Widget build(BuildContext context) {
    return SafeArea(
      child: Scaffold(
        body: SingleChildScrollView(
          child: Padding(
            padding: const EdgeInsets.all(10),
            child: Column(
              children: [
                // enter user id
                TextFormField(
                  controller: controller,
                  decoration: InputDecoration(
                    labelText: 'Enter user id',
                    border: OutlineInputBorder(
                      borderRadius: BorderRadius.circular(10),
                    ),
                  ),
                  keyboardType: TextInputType.number,
                ),

                const SizedBox(height: 40),

                // buttons
                Row(
                  mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                  children: [
                    // upload button
                    ElevatedButton(
                      onPressed: () async {
                        await uploadImage(controller.text);
                      },
                      child: const Text('Upload Image'),
                    ),

                    // retrieve button
                    ElevatedButton(
                      onPressed: () {
                        retrieveImages(controller.text);
                      },
                      child: const Text('Retrieve Image'),
                    ),
                  ],
                ),

                const SizedBox(height: 40),

                // image
                if (imageUrls.isNotEmpty)
                  ListView.separated(
                    shrinkWrap: true,
                    physics: const NeverScrollableScrollPhysics(),
                    itemBuilder: (context, index) {
                      return Container(
                        height: 250,
                        width: double.infinity,
                        decoration: BoxDecoration(
                          image: DecorationImage(
                            image: NetworkImage(
                              imageUrls[index],
                            ),
                            fit: BoxFit.cover,
                          ),
                          borderRadius: BorderRadius.circular(10),
                        ),
                      );
                    },
                    separatorBuilder: (context, index) {
                      return const SizedBox(height: 20);
                    },
                    itemCount: imageUrls.length,
                  ),
              ],
            ),
          ),
        ),
      ),
    );
  }

  Future<void> uploadImage(String userId) async {
    if (userId.isEmpty) {
      return;
    }
    final picker = ImagePicker();
    final pickedFile = await picker.pickImage(source: ImageSource.gallery);

    if (pickedFile != null) {
      final file = await pickedFile.readAsBytes();

      final ref = FirebaseStorage.instance
          .ref('$userId/${pickedFile.path.split('/').last}');

      ref.putData(file).then(
        (_) async {
          await retrieveImages(controller.text);
        },
      ).catchError(
        (error) {
          print('Error occurred: $error');
        },
      );
    }
  }

  Future<void> retrieveImages(String userId) async {
    try {
      if (userId.isEmpty) {
        return;
      }

      imageUrls.clear();

      final firebaseStorageReference = FirebaseStorage.instance.ref(userId);
      final ListResult listResult = await firebaseStorageReference.listAll();

      for (var ref in listResult.items) {
        String url = await ref.getDownloadURL();
        setState(() {
          imageUrls.add(url);
        });
      }
    } catch (e) {
      print('Error occured: $e');
    }
  }
}
```

لا تنسونا من صالح الدعاء