main.dart

```dart
import 'package:expt5/gesture.dart';
import 'package:flutter/material.dart';

void main() {
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Flutter Demo',
      theme: ThemeData(
        colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
        useMaterial3: true,
      ),
      home: const MyHomePage(),
      initialRoute: '/',
      routes: {
        '/gesture': (context) => const GesturePage(),
      },
    );
  }
}

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

  @override
  State<MyHomePage> createState() => _MyHomePageState();
}

class _MyHomePageState extends State<MyHomePage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.deepOrange,
      appBar: AppBar(
        title: const Text('Navigation Example'),
        backgroundColor: Colors.red,
      ),
      body: Center(
```

```dart
          child: ButtonBar(
            alignment: MainAxisAlignment.center,
            children: <Widget>[
              ElevatedButton(
                onPressed: () {
                  Navigator.pushNamed(context, '/gesture');
                },
                child: const Text('Go to Gesture Screen'),
              ),
              ElevatedButton(
                onPressed: () {
                  ScaffoldMessenger.of(context).showSnackBar(
                    const SnackBar(
                      content: Text('Unknown route. Please try again.'),
                    ),
                  );
                },
                child: const Text('Open route'),
              ),
            ],
          ),
        ),
      );
  }
}
```

gesture.dart

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

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

  @override
  State<GesturePage> createState() => _GesturePageState();
}

class _GesturePageState extends State<GesturePage> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.red,
```

```
appBar: AppBar(
  title: const Text('Gesture Example'),
),
body: Center(
  child: Column(
    mainAxisAlignment: MainAxisAlignment.center,
    children: [
      GestureDetector(
        onTap: () {
          ScaffoldMessenger.of(context).showSnackBar(
            const SnackBar(
              content: Text('Tap'),
            ),
          );
        },
        onDoubleTap: () {
          ScaffoldMessenger.of(context).showSnackBar(
            const SnackBar(
              content: Text('Double Tap'),
            ),
          );
        },
        onLongPress: () {
          ScaffoldMessenger.of(context).showSnackBar(
            const SnackBar(
              content: Text('Long Press'),
            ),
          );
        },
        child: Container(
          height: 150.0,
          width: 150.0,
          color: Colors.teal,
          child: const Center(
            child: Text('Tap Me'),
          ),
        ),
      ),
      ElevatedButton(
        onPressed:(){
          Navigator.pop(context);
        },
        style: ElevatedButton.styleFrom(
          backgroundColor: Colors.purple,
```

```
          foregroundColor: Colors.black
        ),
        child:const Text('Go to Previous Screen'),
      )
    ],
  ),
),
);
}
}
```

Navigation Example

[Go to Gesture Screen] [Open route]

Gesture Example

Tap Me

Go to Previous Screen

← Gesture Example

DEBUG

Tap Me

Go to Previous Screen

Double Tap

localhost:54937

Navigation Example

DEBUG

Go to Gesture Screen   Open route

Unknown route. Please try again.

Gesture Example

Tap Me

Go to Previous Screen

Long Press