

workshop number 6



TEACHnology

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WORKSHOP 6

- Functions
- Navigate through your App



Setting the code up for navigation

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

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

class MyApp extends StatelessWidget {
  TextEditingController textEditingController = TextEditingController();

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      builder: (BuildContext context, Widget? child) {
        return Directionality(
          textDirection: TextDirection.ltr,
          child: Builder(
            builder: (BuildContext context) {
              return MediaQuery(
                data: MediaQuery.of(context)
                  .copyWith(alwaysUse24HourFormat: true),
                child: child!,
              );
            },
          ),
        );
      },
      home: MyHomePage(),
    );
  }
}

class MyHomePage extends StatelessWidget {
  TextEditingController textEditingController = TextEditingController();
```



runApp will run MyApp

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

```
> class MyApp extends StatelessWidget { ...
```

```
> class FirstPage extends StatelessWidget { ...
```

```
> class SecondPage extends StatelessWidget { ...
```

```
> class ThirdPage extends StatelessWidget { ...
```

```
> class BluePage extends StatelessWidget { ...
```

```
> class RedPage extends StatelessWidget { ...
```

MyApp will call The HomePage

```
class MyApp extends StatelessWidget {  
  const MyApp({Key? key}) : super(key: key);  
  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'Demo',  
      theme: ThemeData(  
        primarySwatch: Colors.blue,  
      ), // ThemeData  
      home: const FirstPage(title: 'FirstPage'),  
    ); // MaterialApp  
  }  
}
```

} for setting up color

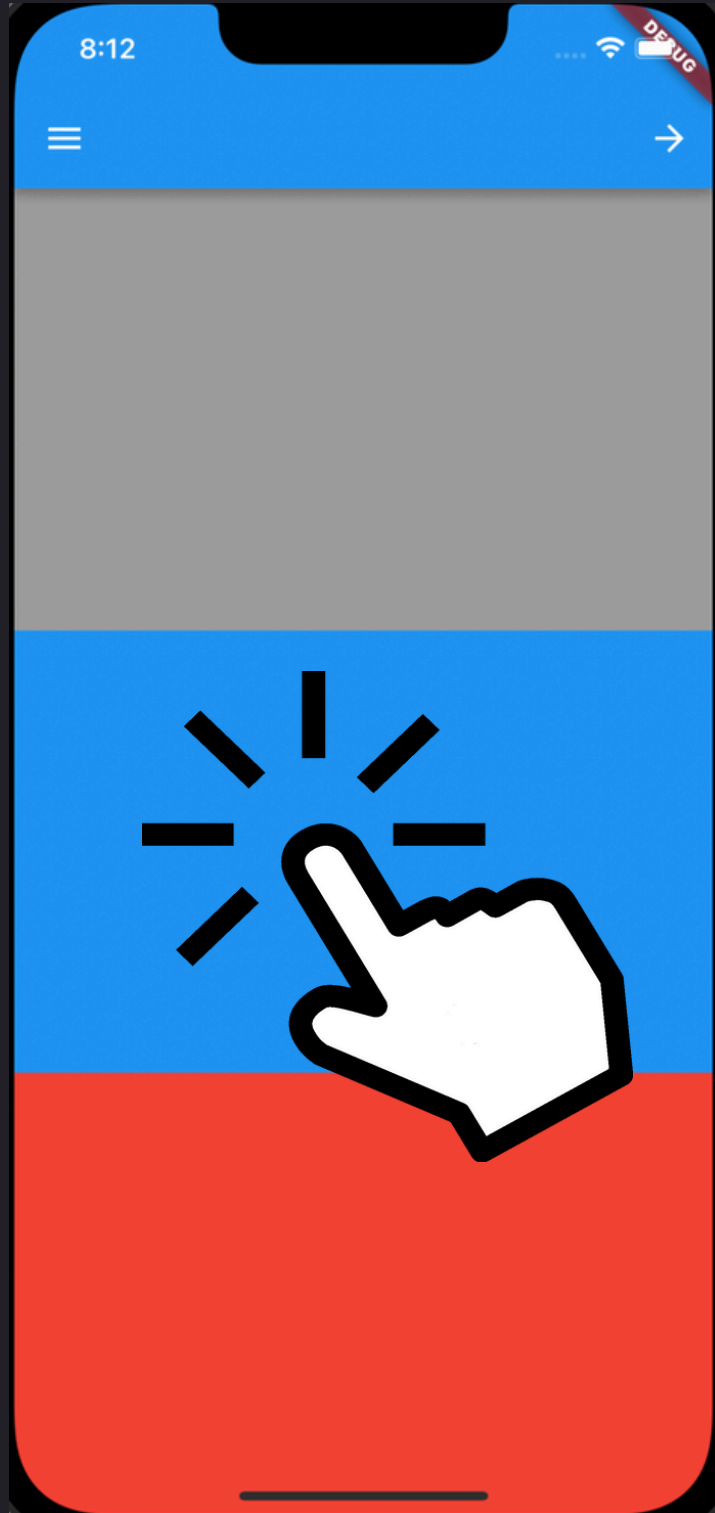
↪ links to homepage

```

class FirstPage extends StatelessWidget {
  const FirstPage({Key? key, required this.title}) : super(key: key);
  final String title;
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        leading: Icon(Icons.menu),
        actions: <Widget>[
          IconButton(
            onPressed: () {
              Navigator.push(context, MaterialPageRoute(builder: (context) {
                return const SecondPage(title: 'SecondPage');
              }));
            },
            icon: Icon(Icons.arrow_forward),
          )
        ],
      ),
      body: Center(
        child: Expanded(
          child: Column(
            children: <Widget>[
              Expanded(
                child: Container(
                  color: Colors.grey,
                ),
              ),
              Expanded(
                child: GestureDetector(
                  onTap: () {
                    Navigator.push(context,
                      MaterialPageRoute(builder: (context) {
                        return const BluePage(title: "Blue page");
                      }));
                  },
                  child: Container(
                    color: Colors.blue,
                  ),
                ),
              ),
            ],
          ),
        ),
      ),
    );
  }
}

```

creating pages as classes



Gesture detector Widget turns any widget into
'buttons'

code for navigation

```
child: GestureDetector(  
  onTap: () {  
    Navigator.push(context,  
      MaterialPageRoute(builder: (context) {  
        return const BluePage(title: "Blue page");  
      }));  
  },  
  child: Container(  
    color: Colors.blue,  
  )),
```

page it navigates to



code for the BluePage

```
class BluePage extends StatelessWidget {  
  const BluePage({Key? key, required this.title}) : super(key: key);  
  final String title;  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(  
        leading: IconButton(  
          onPressed: () {  
            Navigator.pop(context);  
          },  
          icon: Icon(Icons.arrow_back_ios),  
        ), // IconButton  
      ), // AppBar  
      body: Center(  
        child: Expanded(  
          child: Container(color: Colors.blue),  
        ), // Expanded  
      ), // Center  
    ); // Scaffold  
  }  
}
```



when pressed it will navigate back to
the previous page

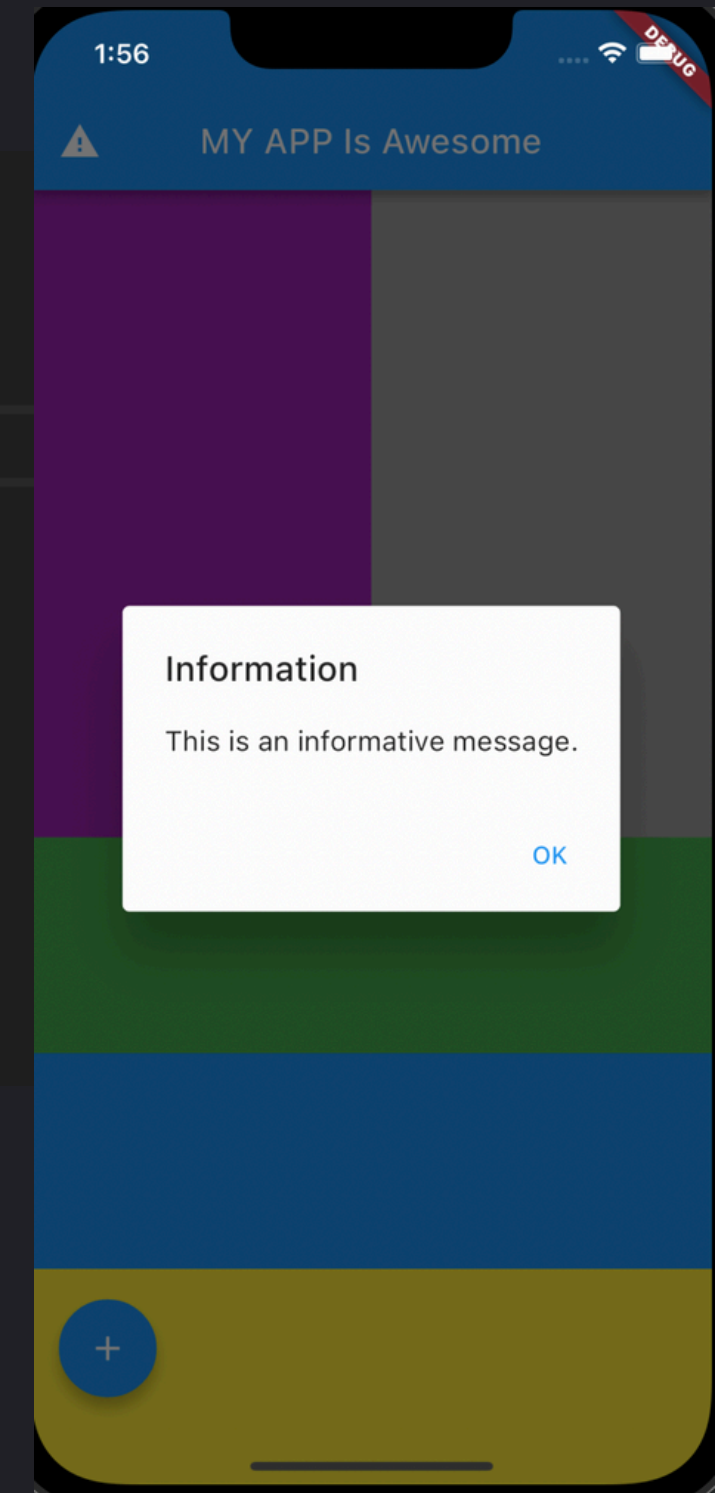
alerts and writing function for widgets

```
void _showAlertDialog(BuildContext context) {  
  showDialog(  
    context: context,  
    builder: (BuildContext context) {  
      return AlertDialog(  
        title: Text('Information'),  
        content: Text('This is an informative message.'),  
        actions: [  
          TextButton(  
            child: Text('OK'),  
            onPressed: () {  
              Navigator.of(context).pop();  
            },  
          ),  
        ],  
      );  
    },  
  );  
}
```

change the appBar leading icon

```
Widget build(BuildContext context) {  
  return Scaffold(  
    appBar: AppBar(  
      title: Text('MY APP Is Awesome'),  
      leading: IconButton(  
        icon: Icon(Icons.warning),  
        onPressed: () {  
          _showAlertDialog(context);  
        },  
      ), // IconButton  
    ), // AppBar  
  );  
}
```

call the function when pressed



**Use to explore more flutter
widgets for your apps**

docs.flutter.dev

Icon button that calls navigation

```
IconButton(  
  onPressed: () {  
    Navigator.push(context, MaterialPageRoute(builder: (context) {  
      return const SecondPage(title: 'SecondPage');  
    }));  
  },  
  icon: Icon(Icons.arrow_forward),  
)
```

GestureDetector that calls a function

```
GestureDetector(  
  onTap: () {  
    Navigator.push(context,  
      MaterialPageRoute(builder: (context) {  
        return const BluePage(title: "Blue page");  
      }));  
  },  
  child: Container(  
    color: Colors.blue,  
  )),
```