



Resource Software Solution

Flutter

Training Assignments

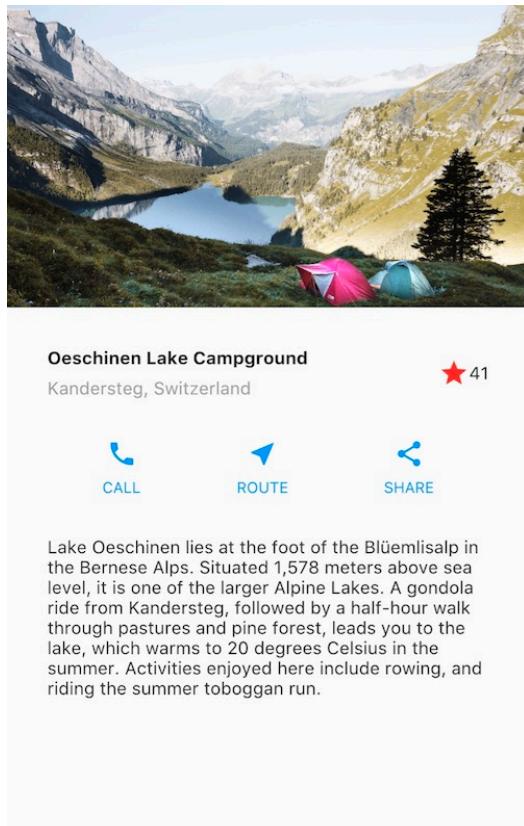
Adding interactivity to your Flutter app

Overview

What you'll learn

- How to respond to taps.
- How to create a custom widget.
- The difference between stateless and stateful widgets.

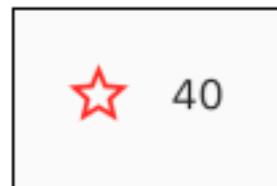
The building layouts tutorial showed you how to create the layout for the following screenshot.



When the app first launches, the star is solid red, indicating that this lake has previously been favorited. The number next to the star indicates that 41 people have favorited this lake. After completing this tutorial, tapping the star removes its favorited status, replacing the solid star with an outline and decreasing the count. Tapping again favorites the lake, drawing a solid star and increasing the count.



Favorited



Not favorited

Tasks

1. Subclass StatelessWidget

```
lib/main.dart (FavoriteWidget)

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

  @override
  State<FavoriteWidget> createState() => _FavoriteWidgetState();
}
```

2. Subclass State

```
lib/main.dart (_FavoriteWidgetState fields)

class _FavoriteWidgetState extends State<FavoriteWidget> {
  bool _isFavorited = true;
  int _favoriteCount = 41;

  // ...
}
```

+ The class also defines a build() method, which creates a row containing a red IconButton, and Text. You use IconButton (instead of Icon) because it has an onPressed property that defines the callback function (_toggleFavorite) for handling a tap.

```
lib/main.dart (_FavoriteWidgetState build)

class _FavoriteWidgetState extends State<FavoriteWidget> {
  // ...

  @override
  Widget build(BuildContext context) {
    return Row(
      mainAxisAlignment: MainAxisAlignment.min,
      children: [
        Container(
          padding: const EdgeInsets.all(0),
          child: IconButton(
            padding: const EdgeInsets.all(0),
            alignment: Alignment.centerRight,
            icon: (_isFavorited
              ? const Icon(Icons.star)
              : const Icon(Icons.star_border)),
            color: Colors.red[500],
            onPressed: _toggleFavorite,
          ),
        ),
        SizedBox(
          width: 18,
          child: SizedBox(
            child: Text('${_favoriteCount}'),
          ),
        ),
        ],
      );
  }
}
```

+ The `_toggleFavorite()` method

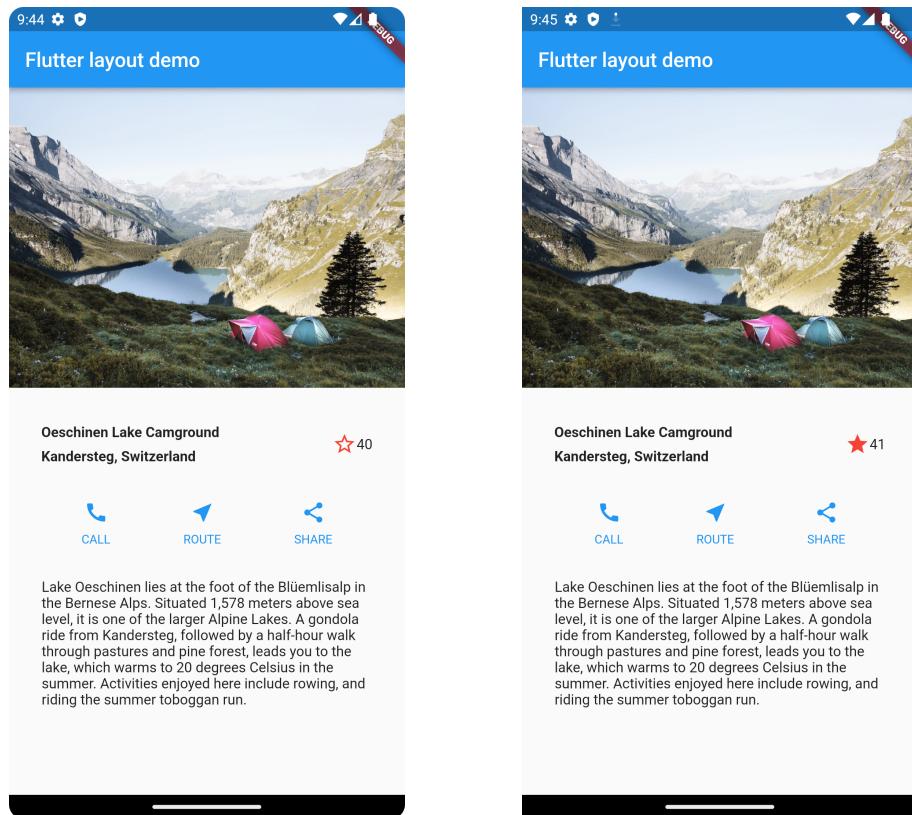
```
void _toggleFavorite() {
    setState(() {
        if (_isFavorited) {
            _favoriteCount -= 1;
            _isFavorited = false;
        } else {
            _favoriteCount += 1;
            _isFavorited = true;
        }
    });
}
```

3. Plug the stateful widget into the widget tree

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

    // This widget is the root of your application.
    @override
    Widget build(BuildContext context) {
        Widget titleSection = Container(
            padding: const EdgeInsets.all(32),
            child: Row(
                children: [
                    Expanded(child: Column(
                        crossAxisAlignment: CrossAxisAlignment.start,
                        children: [
                            Container(
                                padding: const EdgeInsets.only(bottom: 8),
                                child: const Text(
                                    'Oeschinen Lake Campground',
                                    style: TextStyle(
                                        fontWeight: FontWeight.bold,
                                    ), // TextStyle
                                ), // Text
                            ), // Container
                            const Text(
                                'Kandersteg, Switzerland',
                                style: TextStyle(
                                    fontWeight: FontWeight.bold,
                                ), // TextStyle
                            ), // Text
                        ],
                    )));
    }
}
```

4. Run the app



Extra tasks

News App

Favorites

Oeschinen Lake Campground
Kandersteg, Switzerland ★ 41

CALL ROUTE SHARE

Lake Oeschinen lies at the foot of the Blüemlisalp in the Bernese Alps. Situated 1,578 meters above sea level, it is one of the larger Alpine Lakes. A gondola ride from Kandersteg, followed by a half-hour walk through pastures and pine forest, leads you to the lake, which warms to 20 degrees Celsius in the summer. Activities enjoyed here include rowing, and riding the summer toboggan run.

News App

Strawberry Pavlova Recipe

Strawberry Pavlova
Pavlova is a meringue-based dessert named after the Russian ballerina Anna Pavlova. Pavlova features a crisp crust and soft, light inside, topped with fruit and whipped cream.

★★★★★ **170 Reviews**

▢ 🕒 🍴
PREP: **COOK:** **FEEDS:**
25 min **1 hr** **4-6**

News App

Profile

> **Lê Hồng Kỳ (Kỳ Lê)** Trainer

✉ **kyle@r2s.com.vn**

📞 **0855 881 889**

Một doanh nghiệp chỉ phát triển bền vững khi làm ăn chân chính, coi trọng đạo đức kinh doanh. Sự thành công của doanh nghiệp là kết quả của quá trình tận tụy phục vụ khách hàng, tạo niềm tin với đối tác, quan tâm đến nhân viên, và đóng góp thiết thực cho cộng đồng.

Câu nói ưa thích

Favorites Pavlova Recipe Profile

Favorites Pavlova Recipe Profile

Favorites Pavlova Recipe Profile

--THE END--