**Report about value notifier**

One of flutter key features is the ability to use ValueNotifier to manage and update the state of application.

ValueNotifier is a simple class in Flutter that allows you to store a value and notify any listeners when the value changes. It is a lightweight alternative to other state management solutions available in Flutter, such as Bloc or Provider.

This is a simple example of a counter app which like the default example in flutter. We want to display a counter on the screen and increment it every time a user taps a button. Look how we can use ValueNotifier to accomplish this:

import 'package:flutter/material.dart';

class Counter {

  final ValueNotifier<int> count = ValueNotifier<int>(0);

  void incrementCount() {

    count.value++;

  }

}

class CounterApp extends StatefulWidget {

  const CounterApp({super.*key*});

  @override

  \_CounterAppState createState() => \_CounterAppState();

}

class \_CounterAppState extends State<CounterApp> {

  final Counter counter = Counter();

  @override

  Widget build(BuildContext *context*) {

    return Scaffold(

*appBar*: AppBar(

*title*: const Text('Counter App'),

      ),

*body*: Center(

*child*: Column(

*mainAxisAlignment*: MainAxisAlignment.center,

*children*: <Widget>[

            const Text(

              'Count:',

            ),

            ValueListenableBuilder<int>(

*valueListenable*: counter.count,

*builder*: (BuildContext *context*, int *value*, *child*) {

                return Text(

                  '$*value*',

*style*: const TextStyle(*fontSize*: 33),

                );

              },

            ),

          ],

        ),

      ),

*floatingActionButton*: FloatingActionButton(

*onPressed*: () {

          setState(() {

            counter.incrementCount();

          });

        },

*child*: const Icon(Icons.add),

      ),

    );

  }

}

In this example, we define a Counter class that contains a ValueNotifier named count. We then use ValueListenableBuilder to listen for changes to the count value and update the UI accordingly when the button is pressed.

So, we can say that ValueNotifier is a versatile class in Flutter that can be used for a variety of purposes, including managing application state, form validation, updating the UI and so on. By using ValueNotifier, developers can create simple and efficient solutions for managing state in their applications.