//  Main.dart (file Akshit Madan Youtube channel)

import 'package:flutter/material.dart';

import 'package:flutter\_provider\_ashith/home.dart';

import 'package:flutter\_provider\_ashith/list\_provider.dart';

import 'package:provider/provider.dart';

void main() {

  runApp(const MyApp());

}

class MyApp extends StatelessWidget {

  const MyApp({super.key});

  @override

  Widget build(BuildContext context) {

    return MultiProvider(

      providers: [

        ChangeNotifierProvider(create: (context) => NumberListProvider())

      ],

      child: MaterialApp(

        home: Home(),

      ),

    );

  }

}

Home.dart

import 'package:flutter/material.dart';

import 'package:flutter/widgets.dart';

import 'package:flutter\_provider\_ashith/Secound.dart';

import 'package:flutter\_provider\_ashith/list\_provider.dart';

import 'package:provider/provider.dart';

class Home extends StatefulWidget {

  const Home({super.key});

  @override

  State<Home> createState() => \_HomeState();

}

class \_HomeState extends State<Home> {

  @override

  Widget build(BuildContext context) {

    return Consumer<NumberListProvider>(

        builder: (context, numberListProvider, child) {

      return Scaffold(

          floatingActionButton: FloatingActionButton(

            onPressed: () {

              numberListProvider.add();

            },

            child: const Icon(Icons.add),

          ),

          appBar: AppBar(),

          body: SizedBox(

            child: Column(

              children: [

                Text(

                  numberListProvider.numbers.last.toString(),

                  style: const TextStyle(fontSize: 30),

                ),

                Expanded(

                  child: ListView.builder(

                      itemCount: numberListProvider.numbers.length,

                      itemBuilder: (context, index) {

                        return Text(

                          numberListProvider.numbers[index].toString(),

                          style: const TextStyle(fontSize: 30),

                        );

                      }),

                ),

                ElevatedButton(

                    onPressed: () {

                      Navigator.of(context).push(

                          MaterialPageRoute(builder: (context) => Second()));

                      // Navigator.of(context).push(MaterialPageRoute(builder: (context) => Second(numbers:numberListProvider.numbers)));

                    },

                    child: Text("Second"))

              ],

            ),

          ));

    });

  }

}

Second.dart

import 'package:flutter/material.dart';

import 'package:flutter/widgets.dart';

import 'package:flutter\_provider\_ashith/list\_provider.dart';

import 'package:provider/provider.dart';

class Second extends StatefulWidget {

  const Second({

    super.key,

  });

  @override

  State<Second> createState() => \_SecondState();

}

class \_SecondState extends State<Second> {

  @override

  Widget build(BuildContext context) {

    return Consumer<NumberListProvider>(

        builder: (context, numberListProvider, child) {

      return Scaffold(

          floatingActionButton: FloatingActionButton(

            onPressed: () {

              numberListProvider.add();

            },

            child: const Icon(Icons.add),

          ),

          appBar: AppBar(),

          body: SizedBox(

            child: Column(

              children: [

                Text(

                  numberListProvider.numbers.last.toString(),

                  style: const TextStyle(fontSize: 30),

                ),

                Container(

                  height: 200,

                  width: double.maxFinite,

                  child: ListView.builder(

                      scrollDirection: Axis.horizontal,

                      itemCount: numberListProvider.numbers.length,

                      itemBuilder: (context, index) {

                        return Text(

                          numberListProvider.numbers[index].toString(),

                          style: const TextStyle(fontSize: 30),

                        );

                      }),

                )

              ],

            ),

          ));

    });

  }

}

List\_provider.dart

import 'package:flutter/widgets.dart';

class NumberListProvider extends ChangeNotifier {

  List<int> numbers = [1, 2, 3, 4];

  void add() {

    int last = numbers.last;

    numbers.add(last + 1);

    notifyListeners();

  }

}

==================================================================================

The Tech Bothers Provider.

Main.dart

import 'package:flutter/material.dart';

import 'package:provider/provider.dart';

import 'package:the\_teach\_bothers\_provider/provider/count\_provider.dart';

import 'package:the\_teach\_bothers\_provider/provider/example\_one\_provider.dart';

import 'package:the\_teach\_bothers\_provider/provider/favourite\_provider.dart';

import 'package:the\_teach\_bothers\_provider/screen/count\_example.dart';

import 'package:the\_teach\_bothers\_provider/screen/example\_one.dart';

import 'package:the\_teach\_bothers\_provider/screen/favourite/favourite\_screen.dart';

import 'package:the\_teach\_bothers\_provider/screen/value\_notify\_listner.dart';

import 'package:the\_teach\_bothers\_provider/why\_provider.dart';

void main() {

  runApp(MyApp());

}

class MyApp extends StatelessWidget {

  const MyApp({super.key});

  @override

  Widget build(BuildContext context) {

    return MultiProvider(

        providers: [

          ChangeNotifierProvider(create: (\_) => CountProvider()),

          ChangeNotifierProvider(create: (\_) => ExampleOneProvider()),

             ChangeNotifierProvider(create: (\_) =>   FavouriteItemProvider()),

        ],

        child: MaterialApp(

            title: 'Flutter Demo',

            debugShowCheckedModeBanner: false,

            theme: ThemeData(

              colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),

              useMaterial3: true,

            ),

            home:  WhyProvider()

            )

            );

  }

}

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

// import 'package:provider/provider.dart';

// import 'package:the\_teach\_bothers\_provider/provider/count\_provider.dart';

// import 'package:the\_teach\_bothers\_provider/provider/example\_one\_provider.dart';

// import 'package:the\_teach\_bothers\_provider/screen/count\_example.dart';

// import 'package:the\_teach\_bothers\_provider/screen/example\_one.dart';

// void main() {

//   runApp(

//      MyApp());

// }

// class MyApp extends StatelessWidget {

//   const MyApp({super.key});

//   @override

//   Widget build(BuildContext context) {

//     return

//      ChangeNotifierProvider(

//       create:(\_) => SliderProvider(),

//       child:

//        MaterialApp(

//           title: 'Flutter Demo',

//           theme: ThemeData(

//             colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),

//             useMaterial3: true,

//           ),

//           home: ExampleOneScreen()

//           ));

//   }

// }

# Why\_provider.dart (Why you need to learn Provider State Management )

import 'dart:async';

import 'package:flutter/material.dart';

class WhyProvider extends StatefulWidget {

  const WhyProvider({super.key});

  @override

  State<WhyProvider> createState() => \_WhyProviderState();

}

class \_WhyProviderState extends State<WhyProvider> {

  int count = 0;

  @override

  void initState() {

    // TODO: implement initState

    super.initState();

    Timer.periodic(Duration(seconds: 1), (timer) {

      count++;

      print(count);

      setState(() {});

    });

  }

  @override

  Widget build(BuildContext context) {

    print('build');

    return Scaffold(

      appBar: AppBar(

        title: Text("Subcriber"),

      ),

      body: Column(

        mainAxisAlignment: MainAxisAlignment.center,

        crossAxisAlignment: CrossAxisAlignment.center,

        children: [

          Center(

            child: Text(

              DateTime.now().hour.toString() +

                  ":" +

                  DateTime.now().minute.toString() +

                  ":" +

                  DateTime.now().second.toString(),

              // child: Text(count.toString(),

              style: TextStyle(fontSize: 50),

            ),

          ),

          Text(

            count.toString(),

            style: TextStyle(fontSize: 50),

          )

        ],

      ),

    );

  }

}

Main.dart

import 'package:flutter/material.dart';

import 'package:provider/provider.dart';

import 'package:the\_teach\_bothers\_provider/provider/count\_provider.dart';

import 'package:the\_teach\_bothers\_provider/provider/example\_one\_provider.dart';

import 'package:the\_teach\_bothers\_provider/provider/favourite\_provider.dart';

import 'package:the\_teach\_bothers\_provider/screen/count\_example.dart';

import 'package:the\_teach\_bothers\_provider/screen/example\_one.dart';

import 'package:the\_teach\_bothers\_provider/screen/favourite/favourite\_screen.dart';

import 'package:the\_teach\_bothers\_provider/screen/value\_notify\_listner.dart';

import 'package:the\_teach\_bothers\_provider/why\_provider.dart';

void main() {

  runApp(MyApp());

}

class MyApp extends StatelessWidget {

  const MyApp({super.key});

  @override

  Widget build(BuildContext context) {

    return MultiProvider(

        providers: [

          ChangeNotifierProvider(create: (\_) => CountProvider()),

          ChangeNotifierProvider(create: (\_) => ExampleOneProvider()),

          ChangeNotifierProvider(create: (\_) => FavouriteItemProvider()),

        ],

        child: MaterialApp(

            title: 'Flutter Demo',

            debugShowCheckedModeBanner: false,

            theme: ThemeData(

              colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),

              useMaterial3: true,

            ),

            home: CountExample()));

  }

}

# Part - 5 || Provider Count Example with Change Notifier & Consumer -Provider State Management course

Count\_example.dart

import 'dart:async';

import 'package:flutter/material.dart';

import 'package:provider/provider.dart';

import 'package:the\_teach\_bothers\_provider/provider/count\_provider.dart';

class CountExample extends StatefulWidget {

  const CountExample({super.key});

  @override

  State<CountExample> createState() => \_CountExampleState();

}

class \_CountExampleState extends State<CountExample> {

  @override

  void initState() {

    // TODO: implement initState

    super.initState();

    final countprovider = Provider.of<CountProvider>(context,

        listen:

            false); //neche widget build nahihorahe. this called before that if we givrn listen true, error come thats why we have to give listen false in initsate. remember.

    Timer.periodic(Duration(seconds: 2), (timer) {

      countprovider.setCount();

    });

  }

  @override

  Widget build(BuildContext context) {

    final countprovider = Provider.of<CountProvider>(context, listen: false);

    print("build");

    return Scaffold(

      appBar: AppBar(

        title: Text('Subcribe'),

      ),

      body: Center(

          child: Consumer<CountProvider>(builder: (context, value, child) {

        print("consumer re build");

        return Text(

          value.count.toString(),

          style: TextStyle(fontSize: 50),

        );

      })),

      floatingActionButton: FloatingActionButton(

        onPressed: () {

          // print("build2"); //to avoid this rebuilding in provider use consumer.

          countprovider.setCount();

        },

        child: Icon(Icons.add),

      ),

    );

  }

}

Count\_provider.dart

import 'package:flutter/material.dart';

class CountProvider with ChangeNotifier{

   int \_count =0;

   int get count => \_count;

   void setCount(){

    \_count++;

    notifyListeners();

   }

}