SDP

LAB-8.2

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Main.dart

```dart
/// TUTORIAL 2
import "package:flutter/material.dart";
import 'quotes_main.dart';
import 'profile.dart';
import 'homeScreen.dart';

void main() {
  runApp(MaterialApp(
    routes: {
      '/profile': (context) => HomeScreen2(),
      '/quotes': (context) => QuotesMain(),
      '/practice': (context) => HomeScreen(),
    },
    home: RouteManager(),
  ));
}

class RouteManager extends StatelessWidget {
  const RouteManager({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        ElevatedButton(
          onPressed: () {
            Navigator.of(context).pushNamed("/practice");
          },
          child: Text(
            "Tutorial 1"
          ),
        ),
        SizedBox(height: 24.0),
        ElevatedButton(
          onPressed: () {
            Navigator.of(context).pushNamed("/profile");
```
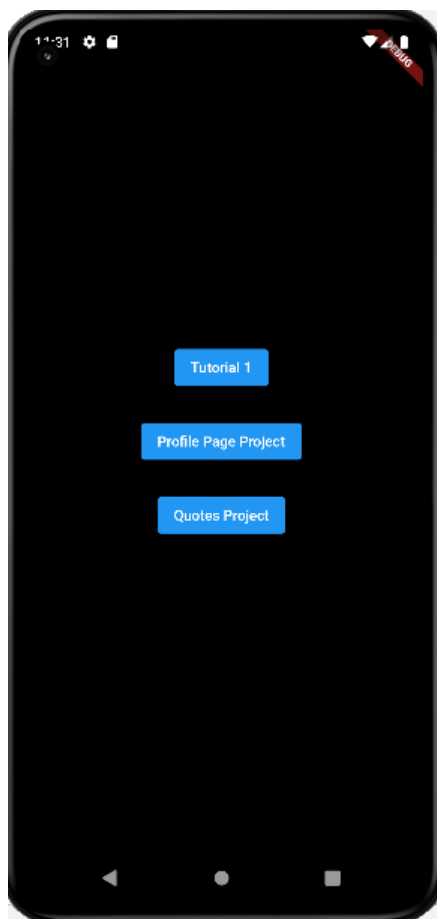
```
            },
            child: Text(
                "Profile Page Project"
            ),
        ),
        SizedBox(height: 24.0),
        ElevatedButton(
          onPressed: () {
            Navigator.of(context).pushNamed("/quotes");
          },
          child: Text(
              "Quotes Project"
          ),
        ),
      ],
    );
  }
}
```


Homescreen.dart

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

class HomeScreen extends StatelessWidget {
```

```dart
const HomeScreen({Key? key}) : super(key: key);

@override
Widget build(BuildContext context) {
  return MaterialApp(
    home: Scaffold(
      appBar: AppBar(
        title: Text("Lab 8"),
        centerTitle: true,
        backgroundColor: Colors.redAccent,
      ),
      // body: Row(
      // body: Padding(
      //   padding: const EdgeInsets.all(32.0),
      //   child: Column(
      //     mainAxisAlignment: MainAxisAlignment.center,
      //     // crossAxisAlignment: CrossAxisAlignment.center,
      //     children: [
      //       // Row(),
      //       Text("Shrey Naik"),
      //       FlatButton(
      //         onPressed: () {},
      //         color: Colors.redAccent,
      //         child: Text("Click Me",
      //           style: TextStyle(
      //             color: Colors.white,
      //           ),
      //         ),
      //       ),
      //       Container(
      //         color: Colors.blue,
      //         padding: EdgeInsets.all(24),
      //         child: Text("Hello World",
      //           style: TextStyle(
      //             color: Colors.white,
      //           ),
      //         ),
      //       )
      //     ]
      //   ),
      // ),

      body: Padding(
        padding: const EdgeInsets.fromLTRB(10,20,10,20),
        child: Container(
          child: Column(
            children: [
              Row(
                children: [
                  Expanded(
                    child: Container(
                      color: Colors.redAccent,
                      child: Text(
                        'Expanded',
                        style: TextStyle(fontSize: 25),
                      ),
                    ),
                  ),
                  Flexible(child: Container(
                    color: Colors.cyan[200],
                    child: Text(
```

```
                      'Flexible',
                      style: TextStyle(fontSize: 25),
                    ),
                  ),)
              ],
            ),
            SizedBox(
              height: 16.0,
            ),
            Row(
              children: [
                Expanded(
                  child: Container(
                    color: Colors.purpleAccent,
                    child: Text(
                      'Expandend',
                      style: TextStyle(fontSize: 25),
                    ),
                  ),
                ),
                Expanded(
                  child: Container(
                    color: Colors.amberAccent,
                    child: Text(
                      'Expanded',
                      style: TextStyle(fontSize: 25),
                    ),
                  ),)
              ],
            ),
            SizedBox(
              height: 16.0,
            ),
            Row(
              children: [
                Flexible(
                  child: Container(
                    color: Colors.redAccent,
                    child: Text(
                      'Flexible',
                      style: TextStyle(fontSize: 25),
                    ),
                  ),
                ),
                Flexible(child: Container(
                  color: Colors.cyan[200],
                  child: Text(
                    'Flexible',
                    style: TextStyle(fontSize: 25),
                  ),
                ),)
              ],
            ),
          ],
        ),
      ),
    ),

    ),
  );
```

```
    }
}
```


Profile.dart

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

class HomeScreen2 extends StatefulWidget {
  const HomeScreen2({Key? key}) : super(key: key);

  @override
  State<HomeScreen2> createState() => _HomeScreen2State();
}

class _HomeScreen2State extends State<HomeScreen2> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Stateful Widgets"),
```

```dart
          centerTitle: true,
          backgroundColor: Colors.redAccent,
        ),
        body: ProfilePage(),
      );
    }
}

class ProfilePage extends StatefulWidget {
  const ProfilePage({Key? key}) : super(key: key);

  @override
  State<ProfilePage> createState() => _ProfilePageState();
}

class _ProfilePageState extends State<ProfilePage> {

  num age = 20;

  @override
  Widget build(BuildContext context) {
    return Container(
      padding: EdgeInsets.all(16.0),
      child: Column(
        // crossAxisAlignment: CrossAxisAlignment.center,
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Row(
            mainAxisAlignment: MainAxisAlignment.center,
            children: [
              Flexible(
                child: Image(
                  image: AssetImage("assets/book2.png"),
                  width: 200,
                ),
              ),
            ],
          ),
          SizedBox(height: 50.0),
          Container(
            child: Text(
              "Name",
              style: TextStyle(
                fontSize: 18,
                color: Colors.redAccent,
              ),
            ),
          ),
          SizedBox(height: 8.0),
          Container(
            child: Text(
              "Nisha Makwana",
              style: TextStyle(
                fontSize: 18.0,
              ),
            ),
          ),
          SizedBox(height: 24.0),
          Row(
            children: [
              ElevatedButton(
```

```dart
            child: Text("---"),
            onPressed: () {
              setState(() {
                age -= 1;
              });
            },
            style: ElevatedButton.styleFrom(
              primary: Colors.redAccent,
            ),
          ),
          Container(
            padding: EdgeInsets.fromLTRB(16, 0, 16, 0),
            child: Text(
              "Age",
              style: TextStyle(
                fontSize: 18.0,
                color: Colors.redAccent,
              ),
            ),
          ),
          ElevatedButton(
            child: Icon(Icons.add),
            onPressed: () {
              setState(() {
                age += 1;
              });
            },
            style: ElevatedButton.styleFrom(
              primary: Colors.redAccent,
            ),
          )
        ],
      ),
      SizedBox(height: 8.0),
      Container(
        child: Text(
          age.toString(),
          style: TextStyle(
            fontSize: 18.0,
          ),
        ),
      ),
      SizedBox(height: 24.0),
      Row(
        children: [
          Icon(
            Icons.mail,
            color: Colors.redAccent,
          ),
          Padding(
            padding: EdgeInsets.fromLTRB(16.0, 0, 0, 0),
            child: Text(
              "nishamakwana2423@gmail.com",
              style: TextStyle(
                fontSize: 18.0,
              ),
            ),
          ),
        ],
      ),
    ],
```

```
        ),
      );
    }
}
```


Quotes_main.dart

```dart
import "package:flutter/material.dart";
import "quote.dart";

class QuotesMain extends StatefulWidget {
  const QuotesMain({Key? key}) : super(key: key);

  @override
  State<QuotesMain> createState() => _QuotesMainState();
}

class _QuotesMainState extends State<QuotesMain> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Quotes App"),
        centerTitle: true,
```

```dart
      ),
      body: QuotesList(),
    );
  }
}


class QuotesList extends StatefulWidget {
  const QuotesList({Key? key}) : super(key: key);

  @override
  State<QuotesList> createState() => _QuotesListState();
}

class _QuotesListState extends State<QuotesList> {

  List<Quote> quotes = [
    Quote(author: "Nisha Makwana", text: "Eat. Sleep. Code. Repeat."),
    Quote(author: "Nisha Makwana", text: "Justice shall be served, thy the
heavens should fall."),
    Quote(author: "Nisha Makwana", text: "It is when you lose everything
that you are free to do anything."),
  ];

  Widget QuoteCard(Quote quote) {
    return Card(
      borderOnForeground: true,
      elevation: 0,
      child: Padding(
        padding: const EdgeInsets.fromLTRB(16.0, 20.0, 16.0, 20.0),
        child: Column(
            crossAxisAlignment: CrossAxisAlignment.stretch,
            children: [
              Text(quote.text,
                style: const TextStyle(
                  fontSize: 20.0,
                ),
              ),
              SizedBox(height: 8.0),
              Text(" - " + quote.author,
                textAlign: TextAlign.end,
                style: const TextStyle(
                  fontSize: 18.0,
                  color: Colors.grey,
                ),
              ),
              SizedBox(height: 16.0),
              ElevatedButton(
                onPressed: () {
                  print("${quote.text} quote pressed!");
                },
                style: ElevatedButton.styleFrom(
                  primary: Colors.orange,
                  onPrimary: Colors.white70,
                ),
                child: Text("View Quote"),
              )
            ]
        ),
      ),
    );
```

```
  }

  @override
  Widget build(BuildContext context) {
    return Container(
      color: Colors.black87,
      padding: EdgeInsets.all(16.0),
      child: Row(
        children: [
          Expanded(
            child: Column(
              children: quotes.map((quote) => QuoteCard(quote)).toList(),
            ),
          ),
        ],
      ),
    );
  }
}
```
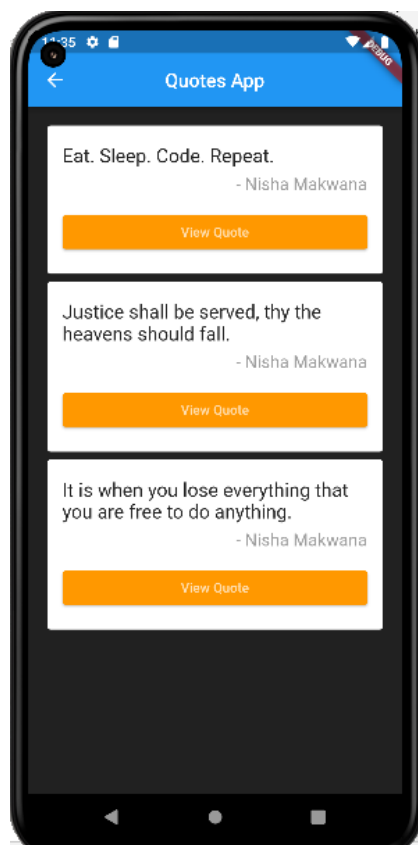
quote.dart

```
class Quote {
  Quote({this.text = '', this.author = ''});
  String text;
  String author;
}
```

Code link:

https://github.com/nishu-mns/SDP/tree/main/lab8