

Dharmsinh Desai University, Nadiad
Faculty of Technology
Department of Computer Engineering



Lab-9
Smart Device Programming

Name: Vashishth Shaileshbhai Patel

Roll No: CE105

ID: 20CEUBG080

Batch: B2

Git Repo: https://github.com/vasu-1/SDP_Labs/tree/main/lab9

Tutorial: 1

Main.dart

```
class QuoteCard extends StatelessWidget {
  // const QuoteCard({
  //   Key? key,
  // }) : super(key: key);
  final Quote quote;
  final VoidCallback delete;

  QuoteCard({required this.quote, required this.delete});

  @override
  Widget build(BuildContext context) {
    return Card(
      margin: const EdgeInsets.fromLTRB(20.0, 10.0, 20.0, 10.0),
      child: Padding(
        padding: const EdgeInsets.all(12.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.stretch,
          children: [
            Text(
              quote.text,
              style: const TextStyle(
                fontSize: 20,
                color: Colors.black87,
              ),
            ),
            SizedBox(height: 10),
            TextButton.icon(
              /*
               our data doesn't exist inside this stateless widget class..
               data are in 'main.dart' file. ..
               */
              onPressed: delete,
              icon: Icon(Icons.delete),
              label: Text('Delete Quote'),
            ),
            Text(
              quote.author,
              style: TextStyle(
                fontSize: 17,
                color: Colors.black54,
              ),
            ),
          ],
        ),
      ),
    );
  }
}
```

Quote.dart

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

quote card.dart

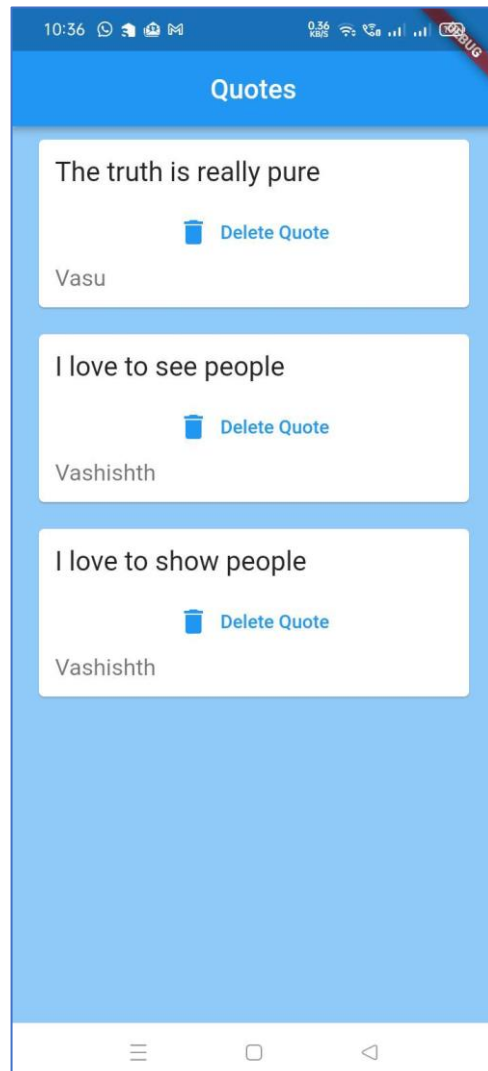
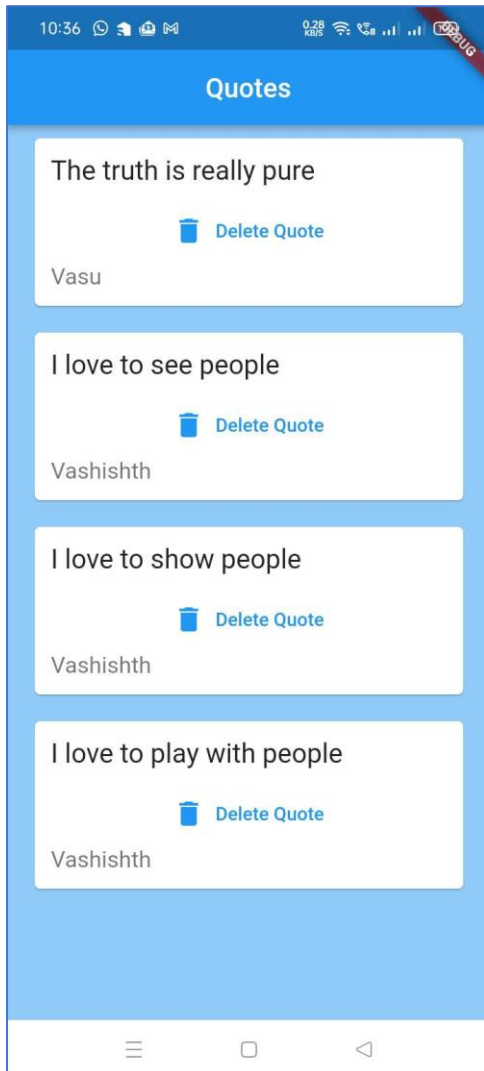
```
import 'package:flutter/material.dart';
import 'quote.dart';

class QuoteCard extends StatelessWidget {
  // const QuoteCard({
  //   Key? key,
  // }) : super(key: key);
  final Quote quote;
  final VoidCallback delete;

  QuoteCard({required this.quote, required this.delete});

  @override
  Widget build(BuildContext context) {
    return Card(
      margin: const EdgeInsets.fromLTRB(20.0, 10.0, 20.0, 10.0),
      child: Padding(
        padding: const EdgeInsets.all(12.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.stretch,
          children: [
            Text(
              quote.text,
              style: const TextStyle(
                fontSize: 20,
                color: Colors.black87,
              ),
            ),
            SizedBox(height: 10),
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              onPressed: delete,
              icon: Icon(Icons.delete),
              label: Text('Delete Quote'),
            ),
            Text(
              quote.author,
              style: TextStyle(
                fontSize: 17,
                color: Colors.black54,
              ),
            ),
          ],
        ),
      ),
    );
  }
}
```

```
}  
}  
};  
,
```



Tutorial: 2

Route widget

- The application's top-level routing table.
- When a named route is pushed with `Navigator.pushNamed()`, the route name is looked up in
- this map. If the name is present, the associated `widgets.WidgetBuilder()` is used to construct a `MaterialPageRoute` that performs an appropriate transition, including Hero animations, to the new route.
- If the app only has one page, then you can specify it using `home` instead.
- If `home` is specified, then it implies an entry in this table for the `Navigator.defaultRouteName()` route `(/)`, and it is an error to redundantly provide such a route in the routes table.
- If a route is requested that is not specified in this table (or by `home`), then the `onGenerateRoute()` callback is called to build the page instead.
- The `Navigator` is only built if routes are provided (either via `home`, `routes`, `onGenerateRoute`, or `onUnknownRoute`); if they are not, `builder` must not be null.

Main.dart

```
import 'package:flutter/material.dart';
import 'package:lab81/pages/home.dart';
import 'package:lab81/pages/choose_location.dart';
import 'package:lab81/pages/loading.dart';

void main() => runApp(MaterialApp(
  initialRoute: '/home',
  routes: {
    '/': (context) => Loading(),
    '/home': (context) => Home(),
    '/location': (context) => ChooseLocation(),
  }
));
```

Quote.dart

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

Quote_card.dart

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

```

class QuoteCard extends StatelessWidget {
  // const QuoteCard({
  //   Key? key,
  // }) : super(key: key);
  final Quote quote;
  final VoidCallback delete;

  QuoteCard({required this.quote, required this.delete});

  @override
  Widget build(BuildContext context) {
    return Card(
      margin: const EdgeInsets.fromLTRB(20.0, 10.0, 20.0, 10.0),
      child: Padding(
        padding: const EdgeInsets.all(12.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.stretch,
          children: [
            Text(
              quote.text,
              style: const TextStyle(
                fontSize: 20,
                color: Colors.black87,
              ),
            ),
            SizedBox(height: 10),
            TextButton.icon(
              /*
               our data doesn't exist inside this stateless widget class..
               data are in 'main.dart' file. ..
              */
              onPressed: delete,
              icon: Icon(Icons.delete),
              label: Text('Delete Quote'),
            ),
            Text(
              quote.author,
              style: TextStyle(
                fontSize: 17,
                color: Colors.black54,
              ),
            ),
          ],
        ),
      ),
    );
  }
}

```

choose location.dart

```

import 'package:flutter/material.dart';
import 'package:lab81/quote.dart';
import 'package:lab81/quote_card.dart';

class ChooseLocation extends StatefulWidget {

```

```

// const ChooseLocation({Key? key}) : super(key: key);
@override
State<ChooseLocation> createState() => _ChooseLocationState();
}
class _ChooseLocationState extends State<ChooseLocation> {

  List<Quote> quotes = [
    Quote(text: 'The truth is really pure', author: 'Vasu'),
    Quote(author: 'Vashishth', text: 'I love to see people'),
    Quote(author: 'Vashishth', text: 'I love to show people'),
    Quote(author: 'Vashishth', text: 'I love to play with people'),
  ];

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.lightGreen,

      appBar: AppBar(
        backgroundColor: Colors.deepOrange,
        title: Text("This is new location!"),
        centerTitle: true,
        elevation: 0,
      ),
      body: Column(
        // mainAxisAlignment: MainAxisAlignment.center,
        // crossAxisAlignment: CrossAxisAlignment.center,
        // children: quotes.map((quote) => quoteTemplate(quote)).toList(),
        children: quotes.map((quote) => QuoteCard(
          quote: quote,
          delete: () {
            setState(() {
              quotes.remove(quote);
            });
          },
        )).toList(),
      ),
    );
  }
}

```

home.dart

```

import 'package:flutter/material.dart';
class Home extends StatefulWidget {
  @override
  State<Home> createState() => _HomeState();
}
class _HomeState extends State<Home> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: SafeArea(child: Column(
        children: [
          TextButton.icon(
            onPressed: () {
              Navigator.pushNamed(context, '/location');
            },

```

```

    },
    icon: Icon(Icons.edit_location), label: Text('Edit Location'))
  ],
),
);
}
}

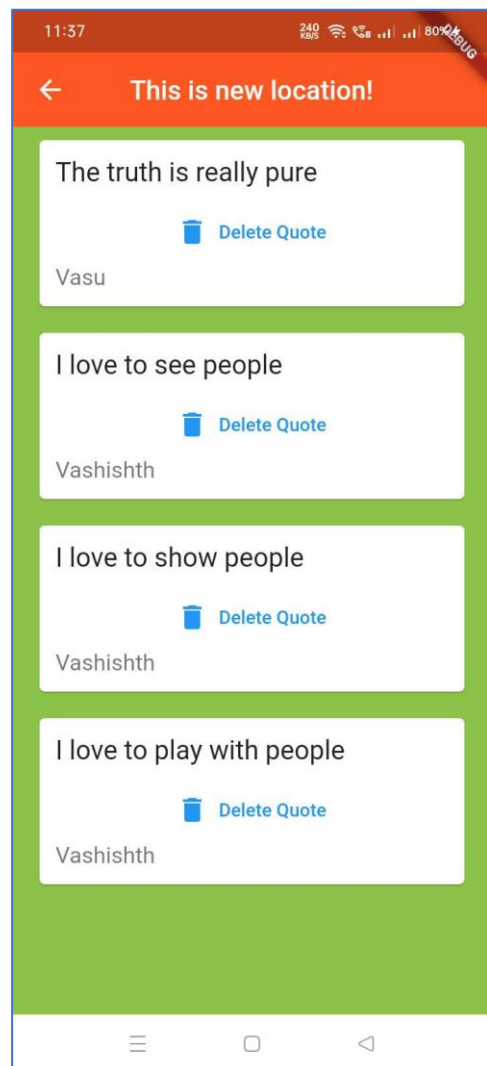
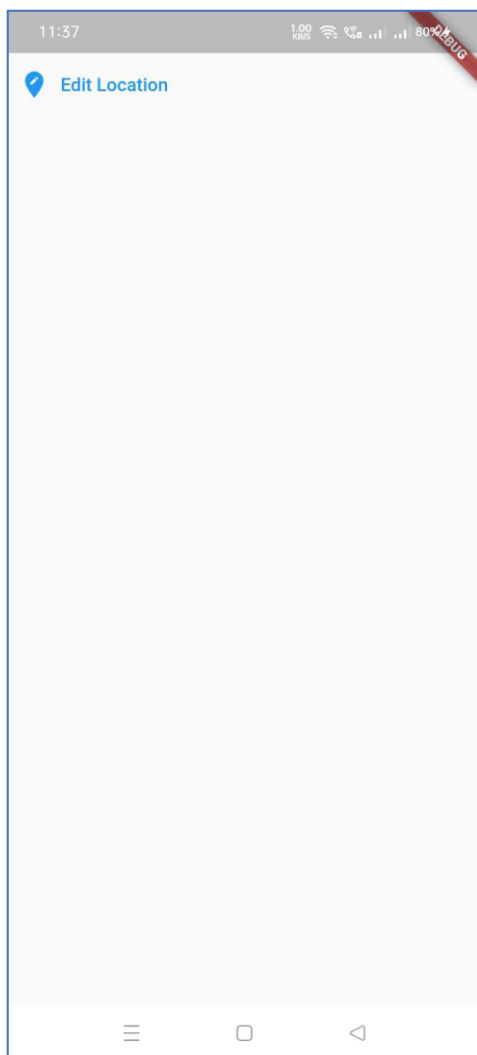
```

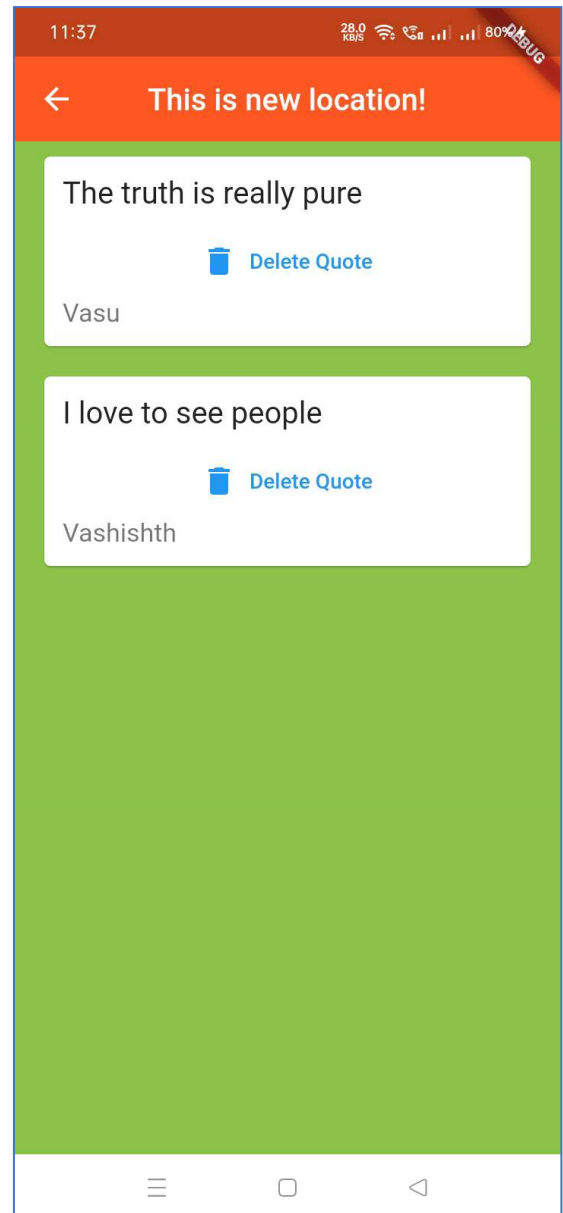
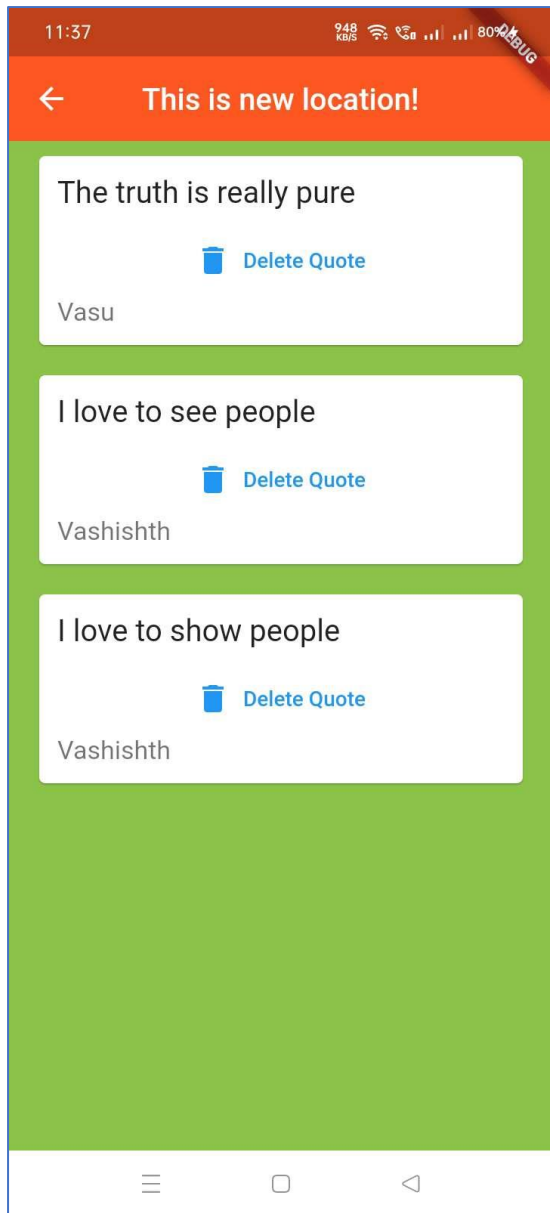
loading.dart

```

import 'package:flutter/material.dart';
class Loading extends StatefulWidget {
  // const Loading({Key? key}) : super(key: key);
  @override
  State<Loading> createState() => _LoadingState();
}
class _LoadingState extends State<Loading> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Text('LOADING SCREEN'),
    );
  }
}

```





THANK YOU