

CE071

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Batch: A4

Lab: 9

Github link: [https://github.com/MurtazaMister/CE071\\_SDP/blob/master/Lab9](https://github.com/MurtazaMister/CE071_SDP/blob/master/Lab9)

## Part 1

Code:

main.dart

```
import 'package:flutter/material.dart';
//import 'package:lab8_2/quote.dart';
import 'quote.dart'; // due to same directory file no need path
import 'quote_card.dart';

void main() => runApp(MaterialApp(
  home: EchoList(),
));

class EchoList extends StatefulWidget {
  const EchoList({Key? key}) : super(key: key);
  @override
  State<EchoList> createState() => _EchoListState();
}

class _EchoListState extends State<EchoList> {
  List<Quote> quotes = [
    Quote(text: 'The truth is really pure and never simple', author:
      'Vijay Sahani'),
    Quote(author: 'Nachiket Malhotra', text: 'I see humans but no
humanity'),
    Quote(text: 'The time is always right to do what is right', author:
      'Ajoy Shantidas'),
  ];

  Widget quoteTemplate(quote) {
    return QuoteCard(quote: quote,);
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.pink[100],
      appBar: AppBar(
        title: Text('Quotes'),
        centerTitle: true,
        backgroundColor: Colors.purple[300],
      ),
      body: Column(
        // mainAxisAlignment: MainAxisAlignment.center,
        // crossAxisAlignment: CrossAxisAlignment.center,
        children: quotes.map((quote) => QuoteCard(quote: quote)).toList(),
      ),
    );
  }
}
```

```

    }
  }
}

```

### 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;
  QuoteCard({required this.quote});

  @override
  Widget build(BuildContext context) {
    return Card(
      margin: EdgeInsets.fromLTRB(20.0, 30.0, 40.0, 10.0),
      child: Padding(
        padding: const EdgeInsets.all(12.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.stretch,
          children: [
            Text(
              quote.text,
              style: TextStyle(
                fontSize: 23,

                color: Colors.deepPurple,

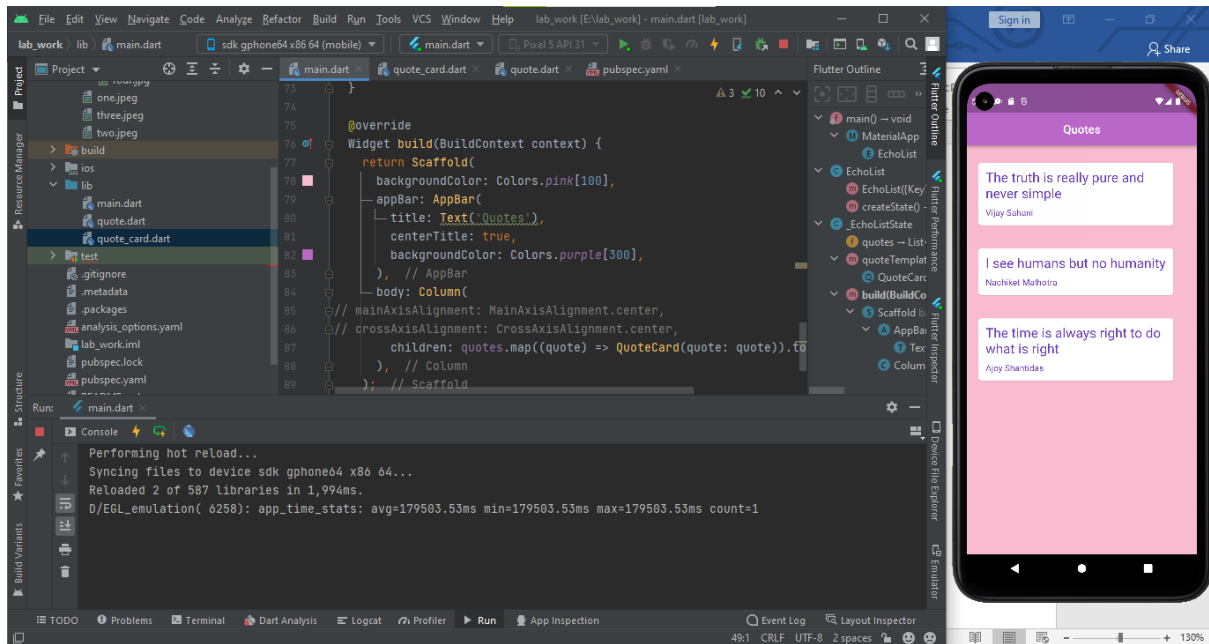
              ),
            ),
            SizedBox(height: 10),
            Text(
              quote.author,
              style: TextStyle(
                fontSize: 15,

                color: Colors.deepPurple,

              ),
            ),
          ],
        ),
      ),
    );
  }
}

```

Output:



Code:

**Main.dart**

```
import 'package:flutter/material.dart';
import 'quote.dart'; // Absolute path
//import 'quote.dart'; // due to same directory file relative path will work
import 'quote_card.dart'; // Relative path

void main() => runApp(MaterialApp(
  home: EchoList(),
));

class EchoList extends StatefulWidget {
  @override
  State<EchoList> createState() => _EchoListState();
}

class _EchoListState extends State<EchoList> {
  /*
  List<String> quotes = [
    'The truth is really pure and never simple',
    'I see humans but no humanity',
    'The time is always right to do what is right'
  ];
  // List<String> author = [];
  */
  /* this will create error..because list is now not of string....
  List<String> quotes = [
    Quote(text: 'The truth is really pure and never simple',author:
    'jignesh1'),
  ];
  */
  List<Quote> quotes = [
```

```

    Quote(text: 'The truth is really pure and never simple', author:
      'Nachiket'),
    Quote(author: 'Jon', text: 'I see humans but no humanity'),
    Quote(text: 'The time is always right to do what is right', author:
      'Robert'),
  ];

/*
Widget quoteTemplate(quote) {
  return QuoteCard(quote: quote,);
}
*/
@override
Widget build(BuildContext context) {
  return Scaffold(
    backgroundColor: Colors.lightBlueAccent[100],
    appBar: AppBar(
      title: Text('Quotes'),
      centerTitle: true,
      backgroundColor: Colors.orangeAccent,
    ),
    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(),
      ),
    ),
  );
}
}

```

### quote.dart

```

class Quote{
  String text;
  String author;

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

```

### quote\_card.dart

```

import 'package:flutter/material.dart';
import 'quote.dart'; // Absolute path
class QuoteCard extends StatelessWidget {
  // Quote quote; // in StatelessWidget can't allowed variable ..
  final Quote quote;
  // final void Function() delete; // or you can use following code also
  final VoidCallback delete;
  QuoteCard({required this.quote, required this.delete});
}

```

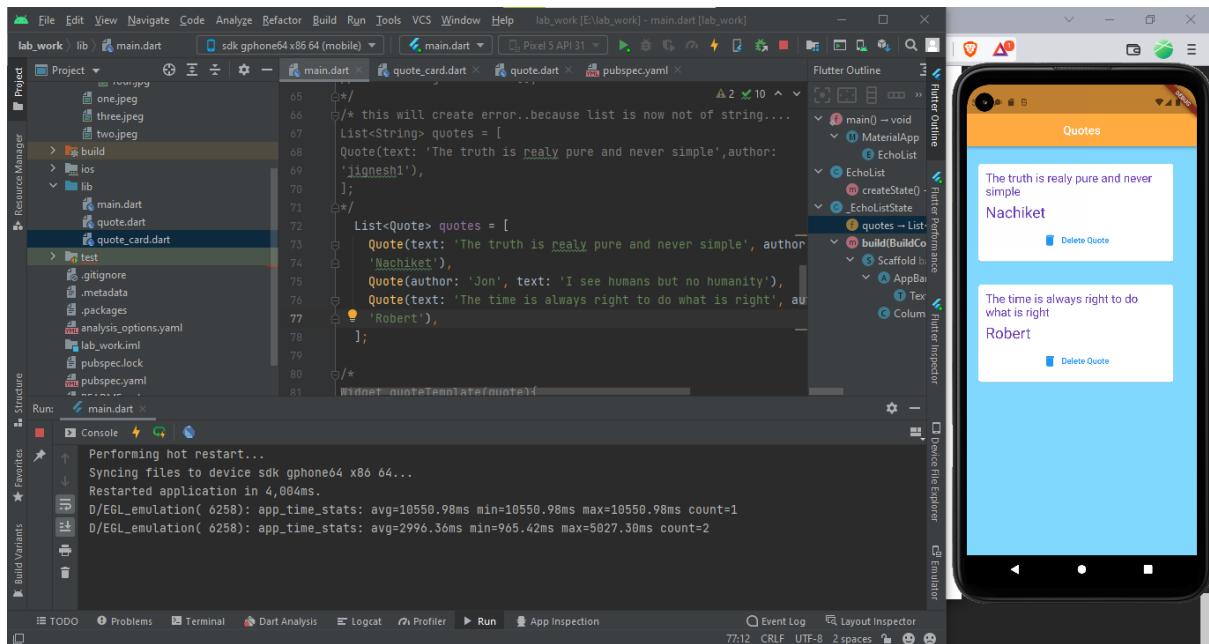
```

@override
Widget build(BuildContext context) {
  return Card(
    margin: EdgeInsets.fromLTRB(20.0, 30.0, 40.0, 10.0),
    child: Padding(
      padding: const EdgeInsets.all(12.0),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.stretch,
        children: [
          Text(
            quote.text,
            style: TextStyle(
              fontSize: 20,
              color: Colors.deepPurple,
            ),
          ),
          SizedBox(height: 10),
          Text(
            quote.author,
            style: TextStyle(
              fontSize: 26,
              color: Colors.deepPurple,
            ),
          ),
          SizedBox(height: 8.0),
          TextButton.icon(
            onPressed: delete,
            icon: Icon(Icons.delete),
            label: Text('Delete Quote'),
          ),
        ],
      ),
    ),
  );
}

```

/\*  
 our data doesn't exist inside this stateless widget class..  
 data are in 'main.dart' file. ..  
 \*/

Output:



## Part 2

Code:

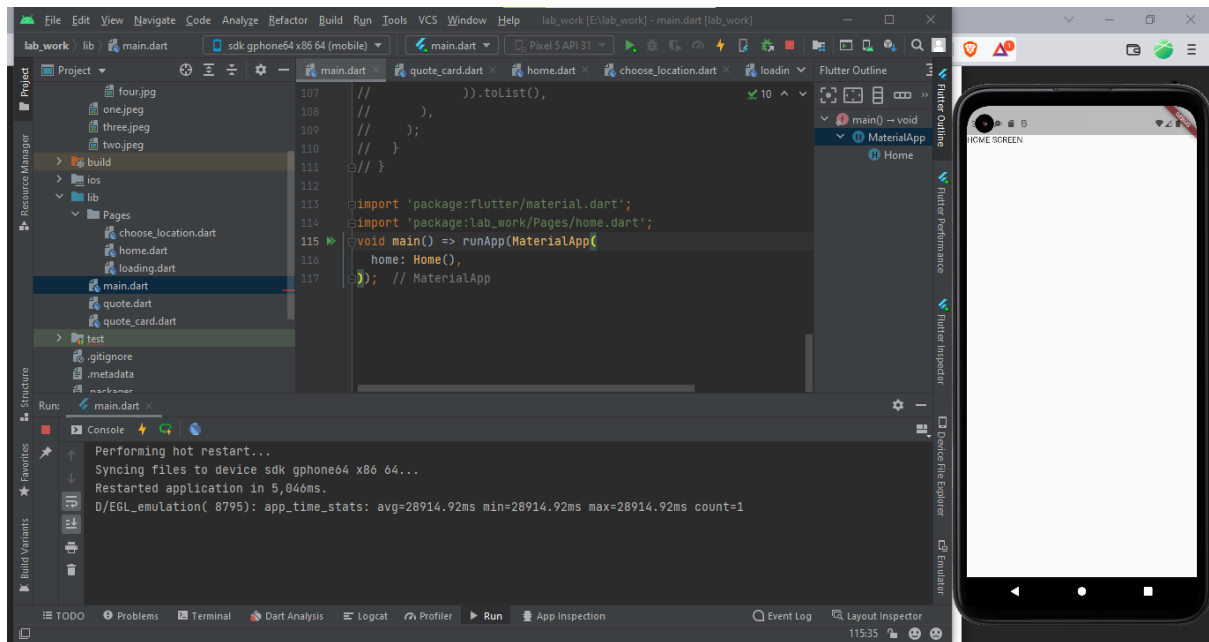
### Main.dart

```
import 'package:flutter/material.dart';
import 'package:lab_work/Pages/home.dart';
void main() => runApp(MaterialApp(
  home: Home(),
));
```

### 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: Text('HOME SCREEN')),
    );
  }
}
```

Output:



Code:

### Main.dart

```
import 'package:flutter/material.dart';
import 'package:lab_work/Pages/choose_location.dart';
import 'package:lab_work/Pages/home.dart';
import 'package:lab_work/Pages/loading.dart';

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

### 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"),
      ),
    ],
  )),
);
}
}

```

### Choose\_location.dart

```

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

```

### 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'),
    );
  }
}

```

Output:



