AIM: To design Flutter UI by including common widgets.

IMPLEMENTATION:

SCREEN 1: OPENING SCREEN

➔ **Widgets used: Scaffold**
➔ **File Name: main.dart**

CODE:

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

void main() async
{
 WidgetsFlutterBinding.ensureInitialized();
 runApp(
   MyApp(
     child: MaterialApp(
       title: 'Drivers App',
       theme: ThemeData(
         primarySwatch: Colors.blue,
       ),
       home: Scaffold(appBar: AppBar(title: Text("Welcome to
Ola"),),),
       debugShowCheckedModeBanner: false,
     ),
   ),
 );
}

class MyApp extends StatefulWidget {
 final Widget? child;
 MyApp({this.child});
 static void restartApp(BuildContext context){
   context.findAncestorStateOfType<_MyAppState>()!.restartApp();
 }

 @override
 State<MyApp> createState() => _MyAppState();
}

class _MyAppState extends State<MyApp> {
 Key key = UniqueKey();
```
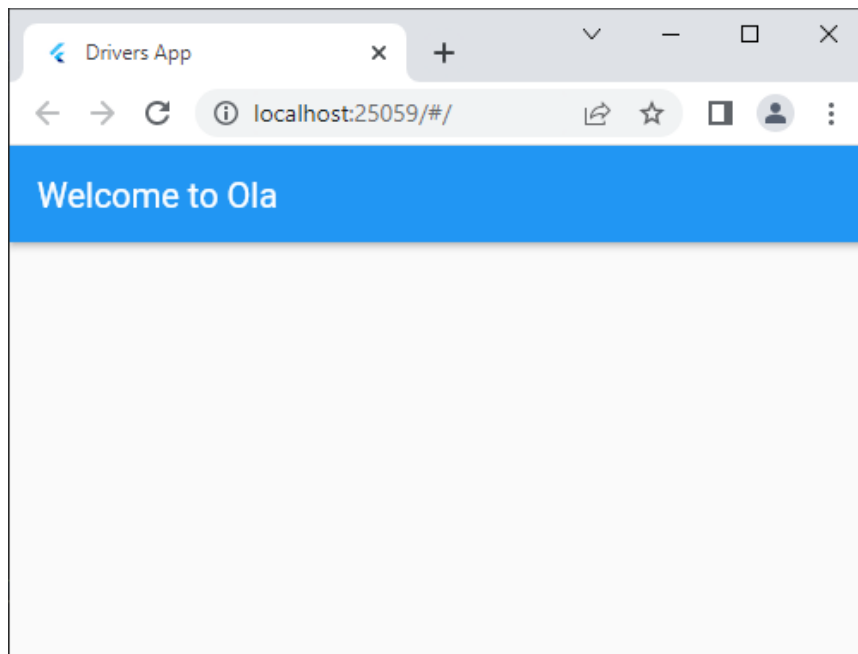
```
void restartApp(){
  setState(() {
    key = UniqueKey();
  });
}
@override
Widget build(BuildContext context) {
  return KeyedSubtree(
    key: key,
      child: widget.child!);
}
}
```

SCREEN 2: LOGIN SCREEN

➔ **Widgets used:**
- ◆ **Scaffold**
- ◆ **Column**
- ◆ **Text**
- ◆ **TextField**
- ◆ **Button**

➔ **File Name: login_screen.dart**

CODE:

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

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

  @override
  State<LoginScreen> createState() => _LoginScreenState();
}

class _LoginScreenState extends State<LoginScreen> {
  TextEditingController nameTextEditingController =
TextEditingController();
  TextEditingController emailTextEditingController =
TextEditingController();
  TextEditingController phoneTextEditingController =
TextEditingController();
  TextEditingController passwordTextEditingController =
TextEditingController();

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white,
      body: SingleChildScrollView(
        child: Padding(
          padding: const EdgeInsets.all(50.0),
          child: Column(
            children: [
              const SizedBox(height: 120,),
```

```dart
const SizedBox(height: 5,),

const Text(
  "OLA",
  style:  TextStyle(
    fontSize:50,
    color: Colors.black,
    fontWeight: FontWeight.bold,
  ),
),
const SizedBox(height: 10,),
const Text(
  "One Touch Cab Booking",
  style:  TextStyle(
    fontSize:15,
    color: Colors.black,
    fontWeight: FontWeight.bold,
  ),
),

const SizedBox(height: 20,),

TextField(
  controller: emailTextEditingController,
  keyboardType: TextInputType.emailAddress,
  style: const TextStyle(
    color: Colors.black,
  ),
  decoration: InputDecoration(
    labelText: "Email",
    hintText: "Enter your Email",
    enabledBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Colors.black)
    ),
    focusedBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Colors.black)
    ),
    hintStyle: TextStyle(
      color: Colors.black,
      fontSize: 10,
    ),
    labelStyle: TextStyle(
      color: Colors.black,
```

```dart
          fontSize: 14,
        ),

      ),

    ),



    TextField(
      controller: passwordTextEditingController,
      keyboardType: TextInputType.text,
      obscureText: true,
      style: const TextStyle(
        color: Colors.black,
      ),
      decoration: InputDecoration(
        labelText: "Password",
        hintText: "Enter your password",
        enabledBorder: UnderlineInputBorder(
            borderSide: BorderSide(color: Colors.black)
        ),
        focusedBorder: UnderlineInputBorder(
            borderSide: BorderSide(color: Colors.black)
        ),
        hintStyle: TextStyle(
          color: Colors.black,
          fontSize: 10,
        ),
        labelStyle: TextStyle(
          color: Colors.black,
          fontSize: 14,
        ),

      ),

    ),

    const SizedBox(height: 20,),

    ElevatedButton(
      onPressed: (){

      },
      style: ElevatedButton.styleFrom(
```

```
                primary: Colors.lime,
            ),
            child: Text("LOGIN",
              style: TextStyle(
                color: Colors.black,
                fontSize: 16,

              ),
            ),
          ),
        ],
      ),
    ),
  ),
);
    }
}
```
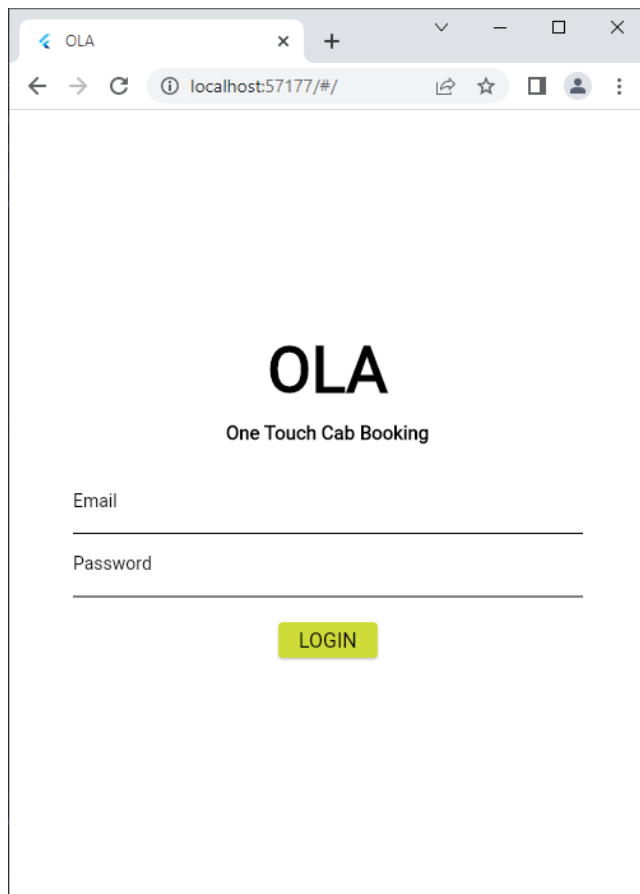
OUTPUT:

SCREEN 3: YOUR RIDES SCREEN

➔ **Widgets used:**
◆ **Scaffold**
◆ **Column**
◆ **Text**
◆ **Table**

➔ **File Name: your_rides_screen.dart**

CODE:

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



void main() {runApp(MyApp());}

class MyApp extends StatefulWidget {
  @override
  _DataTableExample createState() => _DataTableExample();


}

class _DataTableExample extends State<MyApp> {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(

        body: ListView(children: <Widget>[
          const SizedBox(height: 20,),
          Center(
              child: Text(
                'Your Rides',
                style: TextStyle(fontSize: 25, fontWeight:
FontWeight.bold,),

              )),

          DataTable(
            columns: [
              DataColumn(label: Text(
```

```
                        'Details',
                        style: TextStyle(fontSize: 18, fontWeight:
FontWeight.bold)
                    )),
                  DataColumn(label: Text(
                      'PickUp Location',
                      style: TextStyle(fontSize: 18, fontWeight:
FontWeight.bold)
                    )),
                  DataColumn(label: Text(
                      'Destination',
                      style: TextStyle(fontSize: 18, fontWeight:
FontWeight.bold)
                    )),

                ],
                rows: [
                  DataRow(cells: [
                    DataCell(Text('Sun,          Dec 25,          08:02
PM')),
                      DataCell(Text('Vikas Prabha,Mulund East, Mhada
Colony, Mumbai')),
                      DataCell(Text('Rmall,Mulund West,Mumbai')),
                    ]),
                  DataRow(cells: [
                    DataCell(Text('Thu,          Dec 22,          03:07
PM')),
                      DataCell(Text('Vikas Prabha,Mulund East, Mhada
Colony, Mumbai')),
                      DataCell(Text('Vivekanand College,Chembur')),
                    ]),
                  DataRow(cells: [
                    DataCell(Text('Wed,          Dec 21,          07:04
PM')),
                      DataCell(Text('Vikas Prabha,Mulund East, Mhada
Colony, Mumbai')),
                      DataCell(Text('Phoenix Mall,Kurla,Mumbai')),
                    ]),
                ],
              ),
          ])
      ),
    debugShowCheckedModeBanner: false,
  );
```
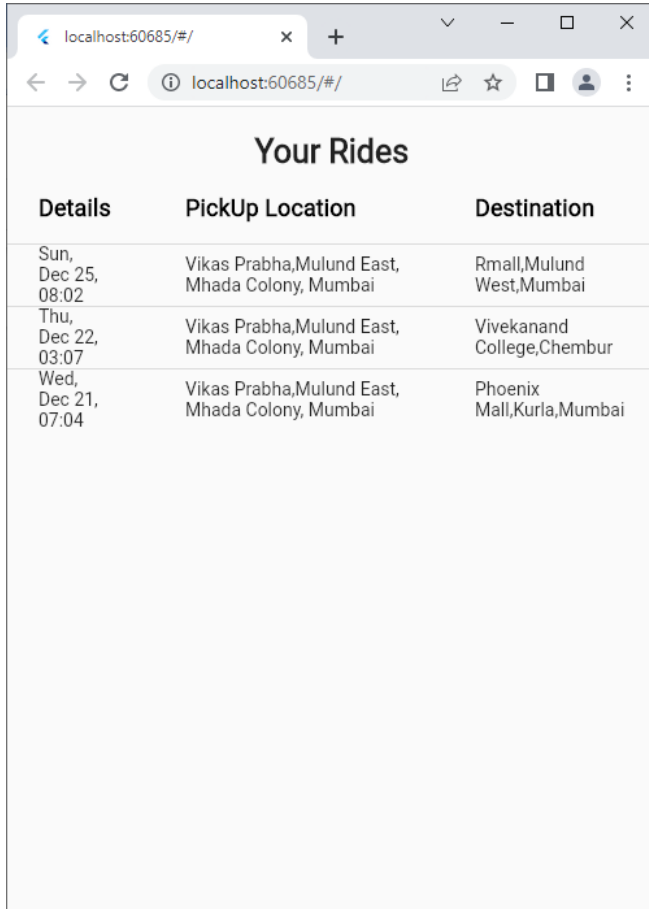
```
        }
}
```

OUTPUT:

CONCLUSION: Each element on a screen of the Flutter app is a widget. The view of the screen completely depends upon the choice and sequence of the widgets used to build the apps. And the structure of the code of an app is a tree of widgets. We made basic screens for OLA App using widgets like Scaffold, Text, Textfield, Column, Table, Button etc. Thus we successfully implemented common widgets in Flutter App.