

Vivekanand Education Society's Institute of Technology

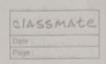
(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Department of Information Technology

A.Y. 22-23

MAD & PWA Lab Journal

Experiment No.	04			
Experiment Title.	To create an interactive Form using form widget			
Roll No.	70			
Name	MAYURI SHRIDATTA YERANDE			
Class	D15B			
Subject	MAD & PWA Lab			
Lab Outcome	LO2: Design and Develop interactive Flutter App by using widgets, layouts, gestures and animation			
Grade:				



EXPERIMENT - 04

AIM: To weate an Internative form using form widget.

THEORY:

- · A your waged B provided by the glader to cueste forms.
 - This form coraged asks as a contrainer which allows us to
 - To cueale a form, we have to provide a Globalkey to curiquely identity the form, which will enable us to validate form freeds:
 - The form widget uses child widget Textformfield to previde the users to enter the textified. This widget rendered a maleural design textified and also also users us to duplay validation curas when they own.
- · coe desine a global tey as Jornitey.
- . This key holds a formstale and can use to retinesse the
- then we display evener message?

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the form and we display unser menage.

Onfressed: () }

if (- Jornikey - accessed Steele! vall cloude ()) <
established americal en of Ceontext) of how hack Borr (
const Americal Borr (context: Text ('Projective data')),

The Formstale day contains Validate () method , when validate () method is called , I true the validator () Junction for each text field I the form. I ever own, then applays respective memals, returns galle.

Care mormation page & implemented. After entering correct details it sign cop page, the order B dereated to care information page of the order of dereated to great in the order is dereated to care information page is when characteristy togged in, the order is dereated to mark screen of thus valuetation for dornes in ord App has been quescablely implemented.

EXPERIMENT - 04

AIM: To create an interactive Form using form widget

IMPLEMENTATION:

SCREEN 1: LOGIN SCREEN

CODE:

```
import 'package:drivers app/authentication/signup screen.dart';
import 'package:flutter/material.dart';
import '../mainScreens/main screen.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(
      appBar: AppBar(
        elevation: 0,
        backgroundColor: Colors.white,
      ),
     body: MyStatefulWidget(
      ),
   );
```

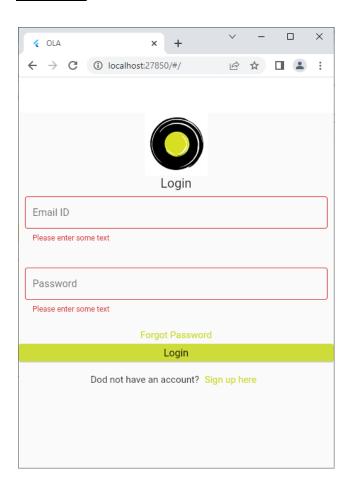
```
}
}
class MyStatefulWidget extends StatefulWidget {
  const MyStatefulWidget({Key? key}) : super(key: key);
  @override
  State<MyStatefulWidget> createState() => _MyStatefulWidgetState();
}
class MyStatefulWidgetState extends State<MyStatefulWidget> {
  TextEditingController nameController = TextEditingController();
  TextEditingController passwordController = TextEditingController();
  final formKey = GlobalKey<FormState>();
  @override
  Widget build(BuildContext context) {
    return Form (
        key: formKey,
        child: ListView(
          children: <Widget>[
            Container (
                width: 100,
                height: 100,
                decoration: BoxDecoration(
                  image: DecorationImage(
                    image: AssetImage("images/ola.png"),
                  ),
                )
            ),
            Container (
              child: Center(
                child: Text("Login", style:
TextStyle(fontSize:(20)),),
              ),
            ),
            Container (
              padding: const EdgeInsets.fromLTRB(10, 10, 10, 10),
              child: Column(
                crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                  TextFormField(
                    controller: nameController,
```

```
decoration: const InputDecoration(
          border: OutlineInputBorder(),
          labelText: 'Email ID',
        validator: (value) {
         if (value == null || value.isEmpty) {
            return "Please enter some text";
         return null;
        },
      ),
    ],
 ),
),
Container (
 padding: const EdgeInsets.fromLTRB(10, 30, 10, 20),
  child: TextFormField(
    obscureText: true,
    controller: passwordController,
    decoration: const InputDecoration(
      border: OutlineInputBorder(),
      labelText: 'Password',
    ),
   validator: (value) {
     if (value == null || value.isEmpty) {
       return "Please enter some text";
     }
     return null;
   },
 ),
),
TextButton (
 onPressed: () {
    //forgot password screen
 },
 child: const Text(
    'Forgot Password',
    style: TextStyle(fontSize: (15),color: Colors.lime),
 ),
),
Container (
    child: ElevatedButton(
      style: ElevatedButton.styleFrom(
        backgroundColor: Colors.lime,
```

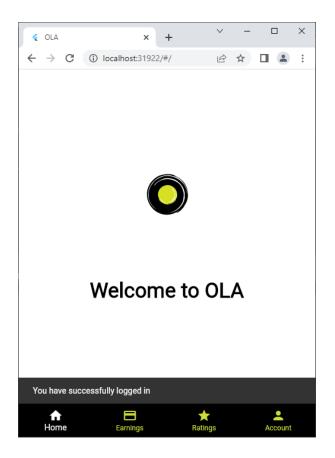
```
),
                   child: const Text(
                     'Login',
                     style: TextStyle(fontSize: (16),color:
Colors.black),
                   ),
                  onPressed: () {
                    if (_formKey.currentState!.validate()) {
                      ScaffoldMessenger.of(context).showSnackBar(
                          const SnackBar(content: Text("Processing
data, Your account has been created")));
                     Navigator.push (context,
MaterialPageRoute(builder: (context) => const MainScreen())
                     );
                     print(nameController.text);
                     print(passwordController.text);
                   },
                )),
            const SizedBox(height: 15),
            Row (
              mainAxisAlignment: MainAxisAlignment.center,
              children: <Widget>[
                const Text(
                   'Do not have an account?',
                   style: TextStyle(
                     fontSize: (15),
                   ),
                ),
                TextButton (
                   child: const Text(
                    'Sign up here',
                     style: TextStyle(fontSize: 15, color:
Colors.lime),
                   ),
                   onPressed: () {
                     Navigator.push (
                       context,
                       MaterialPageRoute(builder: (context) => const
SignUpScreen()),
                     );
```

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

OUTPUT:

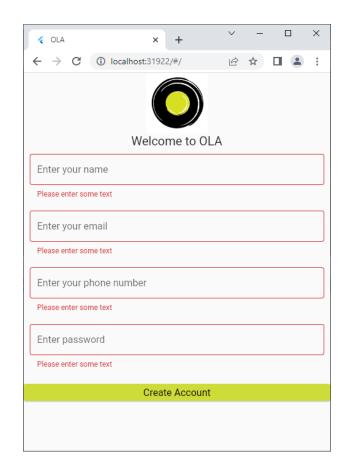


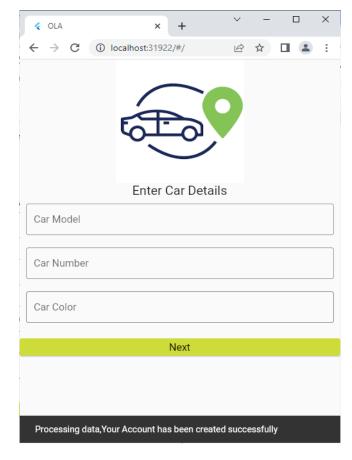
If the user does not enter any text, then a message saying "please enter some text" will be flashed.



Once You have entered the details correctly Then a message will be flashed saying "You have successfully logged in". Thus Validation for Login Page is done.

SCREEN 2: SIGNUP SCREEN:-





SCREEN 3: CAR INFORMATION CODE:

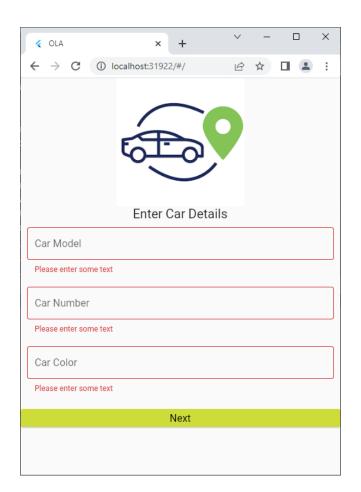
```
import 'package:drivers app/authentication/signup screen.dart';
import 'package:flutter/material.dart';
import '../mainScreens/main screen.dart';
import 'login screen.dart';
class CarInfoScreen extends StatefulWidget {
  const CarInfoScreen({Key? key}) : super(key: key);
  @override
  State<CarInfoScreen> createState() => CarInfoScreenState();
}
class CarInfoScreenState extends State<CarInfoScreen> {
  TextEditingController nameTextEditingController =
TextEditingController();
  TextEditingController emailTextEditingController =
TextEditingController();
  TextEditingController phoneTextEditingController =
TextEditingController();
  TextEditingController passwordTextEditingController =
TextEditingController();
  @override
  Widget build(BuildContext context) {
   return Scaffold(
     body: MyStatefulWidget(
     ),
   );
  }
}
class MyStatefulWidget extends StatefulWidget {
  const MyStatefulWidget({Key? key}) : super(key: key);
  @override
 State<MyStatefulWidget> createState() => MyStatefulWidgetState();
}
class MyStatefulWidgetState extends State<MyStatefulWidget> {
```

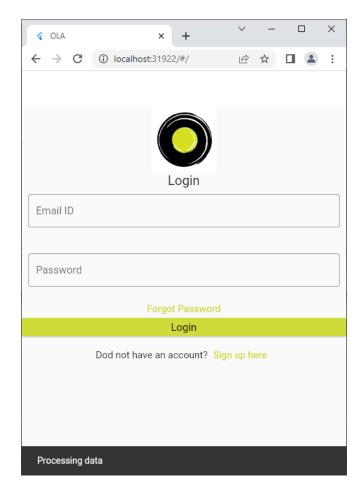
```
TextEditingController carModelTextEditingController =
TextEditingController();
  TextEditingController carNumberTextEditingController =
TextEditingController();
  TextEditingController carColorTextEditingController =
TextEditingController();
  final formKey = GlobalKey<FormState>();
  @override
  Widget build(BuildContext context) {
    return Form (
        key: formKey,
        child: ListView(
          children: <Widget>[
            Container (
                width: 600,
                height: 200,
                decoration: BoxDecoration(
                  image: DecorationImage(
                    image: AssetImage("images/car_info.png"),
                  ),
                )
            ),
            Container (
              child: Center(
                child: Text("Enter Car Details", style:
TextStyle(fontSize:(20)),),
              ),
            ),
            Container (
              padding: const EdgeInsets.fromLTRB(10, 10, 10, 10),
              child: Column (
                crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                  TextFormField(
                    controller: carModelTextEditingController,
                    decoration: const InputDecoration(
                      border: OutlineInputBorder(),
                      labelText: 'Car Model',
                    ),
                    validator: (value) {
                      if (value == null || value.isEmpty) {
                        return "Please enter some text";
```

```
}
         return null;
       },
      ),
   ],
 ),
),
Container (
 padding: const EdgeInsets.fromLTRB(10, 10, 10, 10),
 child: TextFormField(
    obscureText: true,
    controller: carNumberTextEditingController,
    decoration: const InputDecoration(
      border: OutlineInputBorder(),
      labelText: 'Car Number',
    ),
    validator: (value) {
      if (value == null || value.isEmpty) {
        return "Please enter some text";
     return null;
   },
 ),
),
Container (
 padding: const EdgeInsets.fromLTRB(10, 10, 10, 10),
 child: TextFormField(
    obscureText: true,
    controller: carColorTextEditingController,
    decoration: const InputDecoration(
      border: OutlineInputBorder(),
      labelText: 'Car Color',
    ),
   validator: (value) {
     if (value == null || value.isEmpty) {
       return "Please enter some text";
     }
     return null;
   },
 ),
const SizedBox(height: 15),
Container (
    child: ElevatedButton(
```

```
style: ElevatedButton.styleFrom(
                    backgroundColor: Colors.lime,
                  ),
                  child: const Text(
                    'Next',
                    style: TextStyle(fontSize: (16),color:
Colors.black),
                  ),
                  onPressed: () {
                    if (_formKey.currentState!.validate()) {
                      ScaffoldMessenger.of(context).showSnackBar(
                          const SnackBar(content: Text("Processing
data")));
                      Navigator.push (context,
MaterialPageRoute(builder: (context) => const LoginScreen())
                      );
                     }
                  },
                )),
            const SizedBox(height: 15),
          ],
        ));
  }
}
```

OUTPUT:





<u>CONCLUSION:</u> Thus Validation for Login, Signup and Car Information page is implemented. After entering correct details in the Sign Up page, the user is directed to the Car Information Page and then to the Login page. When successfully Logged in, the user is directed to the Main Screen. Thus Validation for forms in OLA App has been successfully implemented.