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## **Experiment No -04** **Exploring Form Widgets**

**Aim -** To create interactive forms using form widgets.

**Theory -**

**Obscure Text** -the obscureText property is often used in text input fields like TextFormField to obscure the entered text, typically for password fields or any other sensitive information.

**TextField:** The TextField widget is used to collect user input via text entry. It supports various input types, such as text, numbers, passwords, and more, and provides options for customization and validation.

**HintStyle** - The style of the hint text displayed in form fields using the hintStyle property of the InputDecoration class. This property allows you to define the text style for the hint text, including its color, font size, font weight, and more.

**TextInputType** - This property is used to indicate to the system what type of input is expected from the user, and it adjusts the keyboard layout accordingly.

**1.TextInputType.text:** The default keyboard type for general text input.

**2.TextInputType.number:** A keyboard optimized for numeric input. It typically includes digits, a decimal point, and symbols for arithmetic operations.

**3.TextInputType.phone:** A keyboard optimized for entering phone numbers. It may include digits, plus sign, and symbols commonly used in phone numbers.

**4.TextInputType.emailAddress:** A keyboard optimized for entering email addresses. It includes characters commonly used in email addresses, such as "@" and ".".

### Code and Output :

```
import 'package:flutter/material.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:food/screen/login_page.dart';
import 'package:food/screen/logincheck.dart';
// Assuming this is your home page

class NewPage extends StatefulWidget {
  @override
  _NewPageState createState() => _NewPageState();
}

class _NewPageState extends State<NewPage> {
  final TextEditingController _emailController = TextEditingController();
  final TextEditingController _passwordController = TextEditingController();
  final TextEditingController _nameController = TextEditingController();
  final TextEditingController _phoneNumberController = TextEditingController();
  signUp(BuildContext context, String email, String password ,String name ,String
phoneno) async {
    if (email.isEmpty || password.isEmpty || name.isEmpty || phoneno.isEmpty ) {
      return 'Please enter your email and password';
    } else {
      try {
        final UserCredential userCredential = await
FirebaseAuth.instance.createUserWithEmailAndPassword(email: email,
password: password);
        // Store additional user information if needed
        // For example, you can store the user's name and phone number
        // You can access these values using _nameController.text and
_phoneNumberController.text
        // Then store them using userCredential.user.updateProfile() or store them
in Firestore, for example
        Navigator.push(context, MaterialPageRoute(builder: (context) =>
LoginPage1()));
      } on FirebaseAuthException catch (ex) {
        return ex.code.toString();
      }
    }
  }
}
```

```
}  
}  
}
```

@override

```
Widget build(BuildContext context) {  
  return Scaffold(  
    backgroundColor: Colors.black,  
    appBar: AppBar(  
      backgroundColor: Colors.black,  
      leading: IconButton(  
        icon: Icon(Icons.arrow_back, size: 30.0, color: Colors.white),  
        onPressed: () {  
          Navigator.pop(context);  
        },  
      ),  
      title: Text(  
        'Sign Up',  
        textAlign: TextAlign.center,  
        style: TextStyle(color: Colors.white, fontSize: 30),  
      ),  
      centerTitle: true,  
    ),  
    body: Column(  
      children: [  
        SizedBox(height: 20),  
        buildTextField(_emailController, "Email"),  
        SizedBox(height: 20),  
        buildTextField(_nameController, "Name"),  
        SizedBox(height: 20),  
        buildTextField(_phoneNumberController, "10 Digit Mobile Number"),  
        SizedBox(height: 20),  
        buildTextField(_passwordController, "Password", obscureText: true),  
        SizedBox(height: 40),  
        Expanded(  
          child: Align(  

```

```

        alignment: Alignment.bottomCenter,
        child: GestureDetector(
          onTap: () {
            signUp(context, _emailController.text,
              _passwordController.text, _nameController.text, _phoneNumberController.text);
          },
          child: Container(
            height: 50,
            color: Colors.orange[900],
            child: Center(
              child: Text(
                'Sign Up',
                style: TextStyle(color: Colors.white, fontSize: 30),
              ),
            ),
          ),
        ),
      ),
    ],
  ),
);
}

```

```

Widget buildTextField(TextEditingController controller, String hintText, {bool
obscureText = false}) {
  return Padding(
    padding: EdgeInsets.symmetric(horizontal: 5),
    child: TextField(
      controller: controller,
      style: TextStyle(color: Colors.white, fontSize: 20),
      keyboardType: TextInputType.text,
      obscureText: obscureText,
      decoration: InputDecoration(
        hintText: hintText,
        hintStyle: TextStyle(color: Colors.grey[800], fontSize: 20, fontWeight:
FontWeight.w400),

```

```

        focusedBorder: UnderlineInputBorder(
          borderSide: BorderSide(color: Colors.white),
        ),
      ),
    ),
  );
}
}

```

LoginPage.dart

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

```
class LoginPage extends StatelessWidget {
```

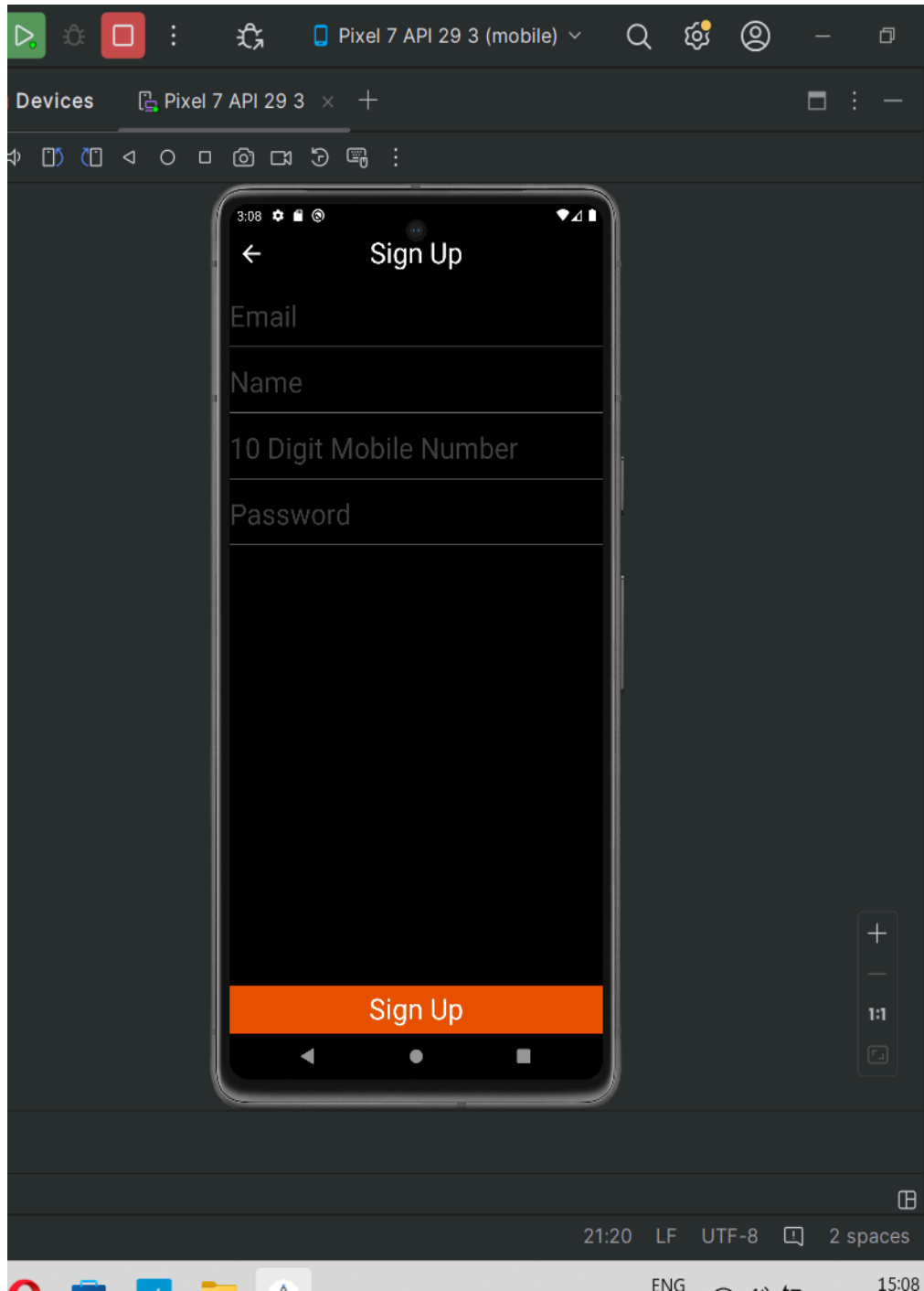
```

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Scaffold(
        backgroundColor: Colors.black,
        appBar: AppBar(
          backgroundColor: Colors.black,
          leading: Row(
            children: [
              IconButton(
                icon: Icon(Icons.arrow_back, size: 30.0, color: Colors.white,),
                onPressed: () {Navigator.pop(context);},
              ),
            ],
          ),
          title: Text('Welcome to Fres',style: TextStyle(color: Colors.white ,fontSize:
25),),
        ),
        body: Column(
          mainAxisAlignment: MainAxisAlignment.center,

```

```
children: [
  SizedBox(height: 15.0), // Add space between text and image
  Container(
    color: Colors.black, // Set your desired background color
    child: Image.asset(
      'assets/images/logo.png', // Replace with your image URL
      width: 200.0, // Set your desired width
      height: 200.0, // Set your desired height
      colorBlendMode: BlendMode.clear,
    ),
  ),
],
),
);
}
```

## Output :



The image shows a web browser window with the address bar displaying 'localhost:51265'. The page has a dark theme and a title 'Welcome To FreshMenu'. It contains two form fields: an 'Email' field with the text 'sejal@gmail.com' and a 'Password' field with masked characters '.....'. Both fields have horizontal lines below them. At the bottom of the form is a large orange button labeled 'Login'.

**Conclusion** - I learnt about the form widgets and successfully implemented them.