

## **MAD and PWA Lab**

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### **EXP 4**

**Aim : To create an interactive Form using form widget**

#### **Theory:**

##### **Form Widgets:**

Form widgets are essential components of interactive forms, offering a range of input elements such as text fields, checkboxes, radio buttons, dropdown menus, and more. These widgets empower developers to design forms that cater to specific data input requirements. The flexibility of form widgets allows for the creation of dynamic and user-friendly interfaces, ensuring that the form adapts to the user's needs.

##### **Form Inputs:**

###### **Text Fields:**

**Purpose:** Allow users to input general text information.

**Attributes:** May include specifications such as maximum length, placeholder text, and input type (e.g., email, password).

###### **Checkboxes:**

**Purpose:** Enable users to make multiple selections from a list of options.

**Attributes:** Each checkbox typically represents a distinct option, and users can choose multiple checkboxes simultaneously.

## Radio Buttons:

Purpose: Provide users with exclusive choices within a group.

Attributes: Users can select only one option from the group, making radio buttons suitable for mutually exclusive selections.

## Dropdown Menus:

Purpose: Offer a space-efficient way to present a list of options for selection.

Attributes: Users click on a dropdown menu to reveal a list of choices, selecting one option from the list.

## Textareas:

Purpose: Allow users to input multiline text, suitable for longer responses or comments.

Attributes: Can include settings for the number of rows and columns to determine the size of the textarea.

## Date Pickers:

Purpose: Facilitate the selection of dates.

Attributes: Users can choose a specific date from a calendar interface, helping to ensure accurate date input.

## File Upload:

Purpose: Enable users to submit files (e.g., images, documents).

Attributes: May include file type restrictions, maximum file size, and a browse button for users to locate and upload files from their device.

## Code:

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

void main() => runApp(const FormScreen());

class FormScreen extends StatelessWidget {
  const FormScreen({Key? key}) : super(key: key);
  static const String _title = 'Sample App';

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: _title,
      home: Scaffold(
        appBar: AppBar(
          elevation: 0,
          // backgroundColor: Colors.blue[300],
          centerTitle: true,
          title: Text(
            'Tinder',
            style: TextStyle(
              fontFamily: 'Roboto',
              fontSize: 24,
            ),
          ),
        ),
        body: Container(
          decoration: BoxDecoration(
            gradient: LinearGradient(
              colors: [Colors.pink, Colors.orange],
              begin: Alignment.topLeft,
              end: Alignment.bottomRight,
            ),
          ),
          child: Padding(
            padding: const EdgeInsets.all(10),
            child: MyStatefulWidget(),
          ),
        ),
      ),
    );
  }
}

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

  @override
  State<MyStatefulWidget> createState() => _MyStatefulWidgetState();
}

class _MyStatefulWidgetState extends State<MyStatefulWidget> {
  TextEditingController emailController = TextEditingController();
  TextEditingController passwordController = TextEditingController();

  @override
  Widget build(BuildContext context) {
    return ListView(
      children: <Widget>[
        Container(
          decoration: BoxDecoration(
```

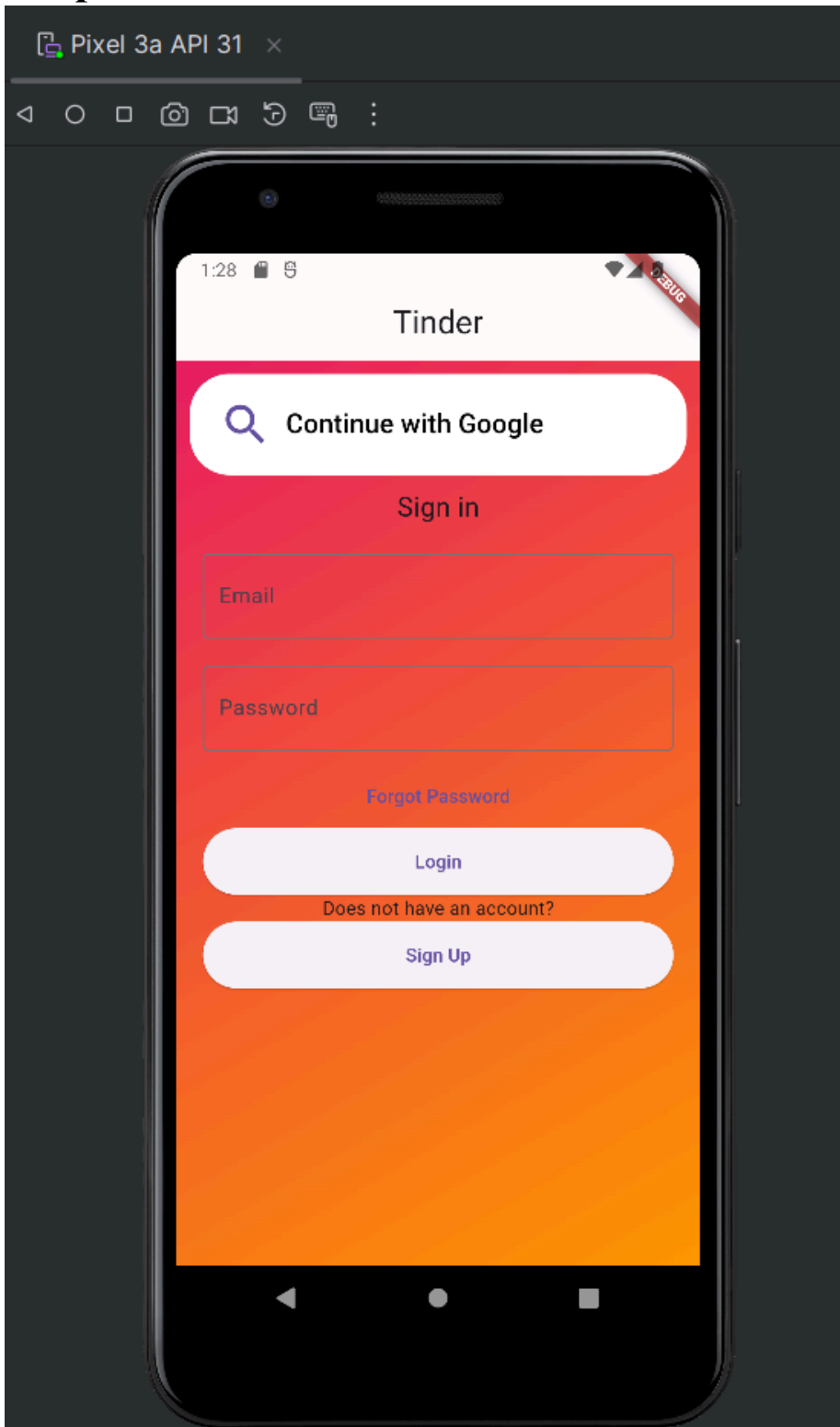
```
color: Colors.white,
borderRadius: BorderRadius.only(
  topLeft: Radius.circular(30.0),
  topRight: Radius.circular(30.0),
  bottomRight: Radius.circular(30.0),
  bottomLeft: Radius.circular(30.0),
),
),
width: double.infinity,
alignment: FractionalOffset(0, 0),
padding: const EdgeInsets.all(10),
child: Column(
  children: [
    TextButton(
      onPressed: (() {}),
      child: Row(
        children: [
          Icon(
            Icons.search,
            size: 40,
          ),
          SizedBox(
            width: 10,
            height: 40,
          ),
          Text(
            'Continue with Google',
            style: TextStyle(
              color: Colors.black,
              fontFamily: 'Roboto',
              fontSize: 20,
            ),
          ),
        ],
      ),
    ],
  ),
),
],
),
),
),
),
Container(
  alignment: Alignment.center,
  padding: const EdgeInsets.all(10),
  child: const Text(
    'Sign in',
    style: TextStyle(fontSize: 20),
  ),
),
),
Container(
  padding: const EdgeInsets.all(10),
  child: TextField(
    controller: emailController,
    decoration: const InputDecoration(
      border: OutlineInputBorder(),
      labelText: 'Email',
    ),
  ),
),
),
Container(
  padding: const EdgeInsets.all(10),
  child: TextField(
    obscureText: true,
    controller: passwordController,
```

```

        decoration: const InputDecoration(
          border: OutlineInputBorder(),
          labelText: 'Password',
        ),
      ),
    ),
    TextButton(
      onPressed: () {
        //forgot password screen
      },
      child: const Text(
        'Forgot Password',
      ),
    ),
  ),
  Container(
    height: 50,
    padding: const EdgeInsets.fromLTRB(10, 0, 10, 0),
    child: ElevatedButton(
      style: ElevatedButton.styleFrom(
        // primary: Colors.blue,
      ),
      child: const Text('Login'),
      onPressed: () {
        print(emailController.text);
        print(passwordController.text);
      },
    ),
  ),
  Row(
    children: <Widget>[
      const Text('Does not have an account?'),
    ],
    mainAxisAlignment: MainAxisAlignment.center,
  ),
  Container(
    height: 50,
    padding: const EdgeInsets.fromLTRB(10, 0, 10, 0),
    child: ElevatedButton(
      style: ElevatedButton.styleFrom(
        // primary: Colors.blue,
      ),
      child: const Text('Sign Up'),
      onPressed: () {
        print(emailController.text);
        print(passwordController.text);
      },
    ),
  ),
],
);
}
}

```

## Output:



**Conclusion:** In this experiment , we have successfully created form using form widget and create a login page for my clone application, various properties of form are implemented successfully in the above experiment.