

MPL Experiment - 4

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AIM: To create an interactive form using form widget

CODE:-

signup.dart

```
import 'dart:io';

import 'package:flutter/material.dart';
import 'package:image_picker/image_picker.dart';
import 'package:flutter_screenutil/flutter_screenutil.dart';

class SignupScreen extends StatefulWidget {
  final Function(BuildContext) showLogin;
  const SignupScreen({Key? key, required this.showLogin}) : super(key:
key);

  @override
  State<SignupScreen> createState() => _SignupScreenState();
}

class _SignupScreenState extends State<SignupScreen> {
  final TextEditingController _emailController = TextEditingController();
  final TextEditingController _usernameController =
TextEditingController();
  final TextEditingController _nameController =
  TextEditingController(); // Added name controller
  final TextEditingController _passwordController =
TextEditingController();
  final TextEditingController _confirmPasswordController =
  TextEditingController();

  File? _profileImage;

  Future<void> _pickImage() async {
    final pickedFile =
      await ImagePicker().pickImage(source: ImageSource.gallery);
```

```

    if (pickedFile != null) {
      setState(() {
        _profileImage = File(pickedFile.path);
      });
    }
  }

  void _signup() {
    // Implement your signup logic here
    print('Name: ${_nameController.text}');
    print('Email: ${_emailController.text}');
    print('Username: ${_usernameController.text}');
    print('Password: ${_passwordController.text}');
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white, // Instagram background color
      body: SafeArea(
        child: Padding(
          padding: EdgeInsets.symmetric(horizontal: 24.w), // Consistent
padding
          child: SingleChildScrollView(
            child: Column(
              crossAxisAlignment: CrossAxisAlignment.stretch, // Align to
start
              children: [
                SizedBox(height: 40.h),

                Center(
                  // Center the title
                  child: Text(
                    'Sign Up',
                    style: TextStyle(
                      fontSize: 24.sp,
                      fontWeight: FontWeight.w500,
                      color: Colors.black,
                    ),
                  ),
                ),
              ],
            ),
          ),
        ),
      ),
    );
  }
}

```

```

    ),

    SizedBox(height: 30.h),

    GestureDetector(
      // Image picker area
      onTap: _pickImage,
      child: CircleAvatar(
        radius: 40.r,
        backgroundColor: Colors.grey[200], // Light background
        backgroundImage: _profileImage != null
          ? FileImage(_profileImage!)
          : null,
        child: _profileImage == null
          ? Icon(
              Icons.add_a_photo,
              size: 30.r,
              color: Colors.grey,
            )
          : null,
      ),
    ),

    SizedBox(height: 20.h),

    _buildTextField(_nameController, 'Full Name',
      Icons.person), // Added name field
    SizedBox(height: 15.h),
    _buildTextField(_emailController, 'Email', Icons.email),
    SizedBox(height: 15.h),
    _buildTextField(
      _usernameController, 'Username',
Icons.person_outline),
    SizedBox(height: 15.h),
    _buildTextField(_passwordController, 'Password',
Icons.lock,
      obscureText: true),
    SizedBox(height: 15.h),
    _buildTextField(

```

```

        _confirmPasswordController, 'Confirm Password',
Icons.lock,
        obscureText: true),

        SizedBox(height: 25.h),

        _buildSignupButton(), // Styled button

        SizedBox(height: 25.h),

        _buildOrDivider(),

        SizedBox(height: 25.h),

        _buildLoginLink(), // Instagram-style login link
    ],
  ),
),
),
),
);
}

```

```

Widget _buildOrDivider() {
  return Row(
    children: [
      Expanded(
        child: Divider(
          color: Colors.grey[400],
          thickness: 1,
        ),
      ),
      Padding(
        padding: EdgeInsets.symmetric(horizontal: 10.w),
        child: Text(
          'OR',
          style: TextStyle(
            fontSize: 14.sp,
            color: Colors.grey[600],
          ),
        ),
      ),
    ],
  );
}

```

```

        ),
      ),
      Expanded(
        child: Divider(
          color: Colors.grey[400],
          thickness: 1,
        ),
      ),
    ],
  );
}

Widget _buildSignupButton() {
  return ElevatedButton(
    onPressed: _signup,
    child: const Text('Sign Up'),
    style: ElevatedButton.styleFrom(
      backgroundColor: Colors.blue, // Instagram blue
      minimumSize: Size(double.infinity, 44.h), // Consistent button
height
      shape: RoundedRectangleBorder(
        // Rounded corners
        borderRadius: BorderRadius.circular(8.r),
      ),
      textStyle: TextStyle(
        fontSize: 16.sp,
        fontWeight: FontWeight.w500,
      ),
    ),
  );
}

Widget _buildLoginLink() {
  return Row(
    mainAxisAlignment: MainAxisAlignment.center,
    children: [
      Text(
        "Already have an account? ",
        style: TextStyle(fontSize: 14.sp, color: Colors.grey),
      ),
    ],
  );
}

```

```

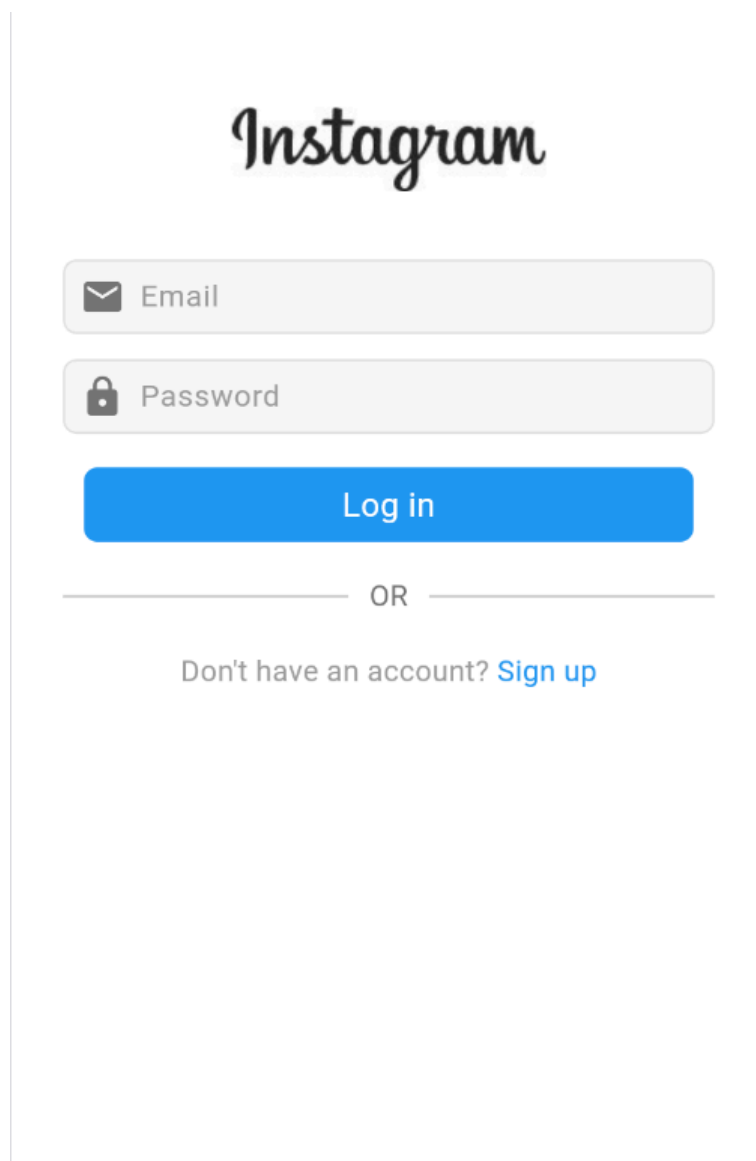
GestureDetector(
  onTap: () {
    widget.showLogin(context);
  },
  child: Text(
    "Log in",
    style: TextStyle(
      color: Colors.blue,
      fontWeight: FontWeight.w500,
      fontSize: 14.sp,
    ),
  ),
),
],
);
}

Widget _buildTextField(
  TextEditingController controller, String labelText, IconData icon,
  {bool obscureText = false}) {
  return Container(
    height: 44.h,
    decoration: BoxDecoration(
      color: Colors.grey[100], // Light gray background
      borderRadius: BorderRadius.circular(8.r), // Rounded corners
      border: Border.all(color: Colors.grey[300]!), // Added border
    ),
    child: TextField(
      controller: controller,
      obscureText: obscureText,
      style: TextStyle(fontSize: 16.sp, color: Colors.black),
      decoration: InputDecoration(
        labelText: labelText,
        labelStyle: TextStyle(color: Colors.grey),
        prefixIcon: Icon(
          icon,
          color: Colors.grey[600],
        ),
      ),
      contentPadding:
        EdgeInsets.symmetric(horizontal: 15.w, vertical: 12.h),
    ),
  );
}

```

```
border: InputBorder.none,  
focusedBorder: InputBorder.none,  
enabledBorder: InputBorder.none,  
),  
,  
);  
}  
}
```

OUTPUT:-



The image shows a mockup of the Instagram login interface. It features the Instagram logo at the top, followed by two input fields: 'Email' with an envelope icon and 'Password' with a lock icon. Below these is a blue 'Log in' button. A horizontal line with 'OR' in the center separates the login section from the sign-up section. The sign-up section includes the text 'Don't have an account?' followed by a blue 'Sign up' link.

Instagram

Email

Password

Log in

OR

Don't have an account? [Sign up](#)

login_screen.dart

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

class LoginScreen extends StatefulWidget {
  final Function(BuildContext) showSignup;
  const LoginScreen({Key? key, required this.showSignup}) : super(key:
key);

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

class _LoginScreenState extends State<LoginScreen> {
  final email = TextEditingController();
  final password = TextEditingController();
  FocusNode emailFocus = FocusNode();
  FocusNode passwordFocus = FocusNode();

  @override
  void dispose() {
    email.dispose();
    password.dispose();
    emailFocus.dispose();
    passwordFocus.dispose();
    super.dispose();
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      resizeToAvoidBottomInset: false,
      backgroundColor: Colors.white,
      body: SafeArea(
        child: Padding(
          padding: EdgeInsets.symmetric(horizontal: 24.w),
          child: SingleChildScrollView(
            child: Column(
              crossAxisAlignment: CrossAxisAlignment.stretch,
              children: [
```



```

        SizedBox(height: 60.h),
        Center(
          child: Image.asset(
            'images/logo.jpg',
            height: 50.h,
          ),
        ),
        SizedBox(height: 40.h),
        _buildTextField(email, emailFocus, 'Email', Icons.email),
        SizedBox(height: 15.h),
        _buildTextField(
          password, passwordFocus, 'Password', Icons.lock),
        SizedBox(height: 20.h),
        _buildLoginButton(),
        SizedBox(height: 20.h),
        _buildOrDivider(),
        SizedBox(height: 20.h),
        _buildSignupButton(context),
      ],
    ),
  ),
),
);
}

```

```

Widget _buildOrDivider() {
  return Row(
    children: [
      Expanded(
        child: Divider(
          color: Colors.grey[400],
          thickness: 1,
        ),
      ),
      Padding(
        padding: EdgeInsets.symmetric(horizontal: 10.w),
        child: Text(
          'OR',
          style: TextStyle(

```

```

        fontSize: 14.sp,
        color: Colors.grey[600],
      ),
    ),
  ),
  Expanded(
    child: Divider(
      color: Colors.grey[400],
      thickness: 1,
    ),
  ),
],
);
}

```

```

Widget _buildSignupButton(BuildContext context) {
  return Padding(
    padding: EdgeInsets.symmetric(horizontal: 10.w),
    child: Row(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        Text(
          "Don't have an account? ",
          style: TextStyle(
            fontSize: 14.sp,
            color: Colors.grey,
          ),
        ),
        GestureDetector(
          onTap: () {
            widget.showSignup(context);
          },
          child: Text(
            "Sign up",
            style: TextStyle(
              fontSize: 14.sp,
              color: Colors.blue,
              fontWeight: FontWeight.w500,
            ),
          ),
        ),
      ],
    ),
  );
}

```

```

    ),
  ],
),
);
}

```

```

Widget _buildLoginButton() {
  return Padding(
    padding: EdgeInsets.symmetric(horizontal: 10.w),
    child: InkWell(
      onTap: () {
        // Handle login here
      },
      child: Container(
        alignment: Alignment.center,
        width: double.infinity,
        height: 44.h,
        decoration: BoxDecoration(
          color: Colors.blue,
          borderRadius: BorderRadius.circular(8.r),
        ),
        child: Text(
          'Log in',
          style: TextStyle(
            fontSize: 16.sp,
            color: Colors.white,
            fontWeight: FontWeight.w500,
          ),
        ),
      ),
    ),
  ),
);
}

```

```

Padding _buildTextField(TextEditingController controller, FocusNode
focusNode,
  String labelText, IconData icon) {
  return Padding(
    padding: EdgeInsets.symmetric(horizontal: 0.w),
    child: Container(

```

```


height: 44.h,
decoration: BoxDecoration(
  color: Colors.grey[100],
  borderRadius: BorderRadius.circular(8.r),
  border: Border.all(color: Colors.grey[300]!),
),
child: TextField(
  style: TextStyle(fontSize: 16.sp, color: Colors.black),
  controller: controller,
  focusNode: focusNode,
  decoration: InputDecoration(
    labelText: labelText,
    labelStyle: TextStyle(color: Colors.grey),
    prefixIcon: Icon(
      icon,
      color: focusNode.hasFocus ? Colors.blue : Colors.grey[600],
    ),
    contentPadding:
      EdgeInsets.symmetric(horizontal: 15.w, vertical: 12.h),
    border: InputBorder.none,
    focusedBorder: InputBorder.none,
    enabledBorder: InputBorder.none,
  ),
),
),
);
}
}


```


OUTPUT:-


Sign Up




 Full Name

 Email

 Username

 Password

 Confirm Password

Sign Up

OR

Already have an account? [Log in](#)