

## MAD LAB EXPT 4

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**Aim: To make an interactive form using Widgets.**

### Theory:

**Text Input Fields-** Use the TextField widget to allow users to input text. You can customize it with properties like decoration, controller, keyboardType, validator, and onChanged callback.

**Form Widget-** Encapsulate your input fields within a Form widget. The Form widget manages the form state and provides methods for validation and submission.

**Form Fields-** Wrap each input field within a TextFormField widget. This widget integrates with the Form widget and automatically handles validation.

**Validation-** Implement validation logic to ensure that the user input meets certain criteria (e.g., required fields, valid email format). You can use the validator property of the TextFormField widget to specify validation functions.

**State Management-** Maintain the form's state using either StatefulWidget or state management solutions like Provider, Riverpod, or Bloc. When the user interacts with the form (e.g., typing in a text field), update the corresponding state.

**Submit Button-** Include a button (e.g., ElevatedButton or TextButton) to allow users to submit the form. Disable the button if the form is invalid.

**Handling Form Submission-** Define a function to handle form submission. This function should be called when the user taps the submit button. You can access the form data using the FormState object.

### Output:

```
import 'dart:ffi';
import 'dart:io';

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

```

import 'package:whatsapp/common/extension/custon_theme_extension.dart';
import 'package:whatsapp/common/widgets/custom_elevated_button.dart';
import 'package:whatsapp/feature/auth/widgets/Custom_Icon.dart';
import 'package:whatsapp/feature/auth/widgets/custom_text_field.dart';
import 'package:whatsapp/feature/welcome/pages/user_info_pages.dart';

class VerificationPage extends StatelessWidget {
  TextEditingController otpController = TextEditingController();
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        backgroundColor: Theme.of(context).scaffoldBackgroundColor,
        elevation: 11,
        title: Text(
          'Verify your number',
          style: TextStyle(
            color: context.theme.authAppbartextColor,
          ),
        ),
        centerTitle: true,
        actions: [
          CustomIconButton(
            onTap: () {},
            icon: Icons.more_vert,
          ),
        ],
      ),
      body: SingleChildScrollView(
        padding: const EdgeInsets.symmetric(horizontal: 30),
        child: Column(
          children: [
            Padding(
              padding: const EdgeInsets.symmetric(horizontal: 20),
              child: RichText(
                textAlign: TextAlign.center,
                text: TextSpan(
                  style: TextStyle(
                    color: context.theme.greyColor,
                    height: 1.5,
                  ),
                  children: [
                    TextSpan(
                      text:
                        "You've tried to register +91 9136562312, before
requesting an SMS or call with code ",
                    ),
                    TextSpan(
                      text: 'Wrong number ?',
                      style: TextStyle(
                        color: context.theme.blueColor,
                      ),
                    ),
                  ],
                ),
              ),
            ),
          ],
        ),
      ),
    );
  }
}

```

```

    ),
    const SizedBox(
      height: 20,
    ),
    Row(
      children: [
        Icon(Icons.message, color: context.theme.greyColor),
        const SizedBox(height: 40),
      ],
    ),
    Container(
      alignment: Alignment.center,
      padding: const EdgeInsets.symmetric(horizontal: 40),
      child: TextField(
        controller: otpController, // Use a TextEditingController
        decoration: InputDecoration(
          hintText: 'Enter OTP',
          hintStyle: TextStyle(fontSize: 25),
          suffixIcon: Icon(Icons.lock),
        ),
        keyboardType: TextInputType.number,
        textAlign: TextAlign.center,
        style: TextStyle(fontSize: 25),
        maxLength: 4,
      ),
    ),
    const SizedBox(
      height: 20,
    ),
    Text(
      'Enter 4-Digit OTP code',
      style: TextStyle(color: context.theme.circleImageColor),
    ),
    Row(
      children: [
        Icon(Icons.message, color: context.theme.greyColor),
        const SizedBox(height: 40),
        Text(
          'Resend Message',
          style: TextStyle(color: context.theme.blueColor),
        ),
      ],
    ),
    Divider(
      thickness: 0.2,
      color: context.theme.greyColor!.withOpacity(1),
      endIndent: 2,
    ),
  ],
),
floatingActionButtonLocation: FloatingActionButtonLocation.centerFloat,
floatingActionButton: CustomElevatedButton(
  onPressed: () {
    // Check if entered OTP is '9999'
    if (otpController.text == '9999') {

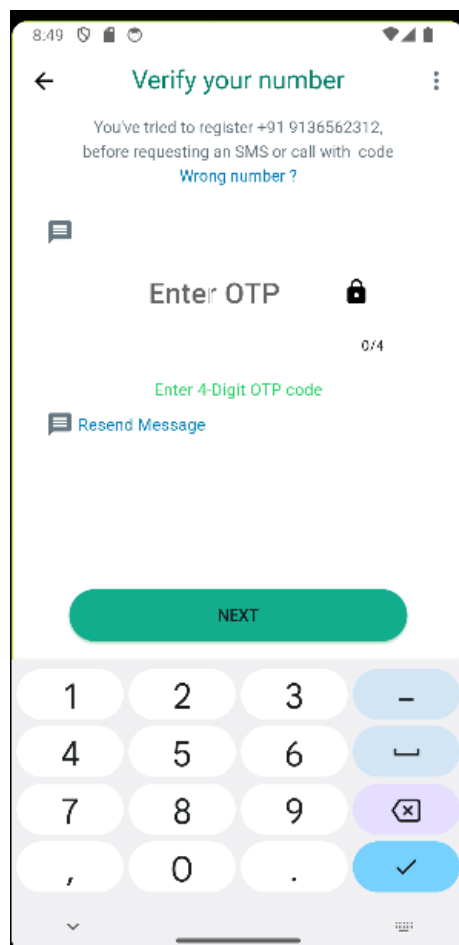
```

```

// Navigate to the next page when the "NEXT" button is pressed
Navigator.push(
  context,
  MaterialPageRoute(
    builder: (context) => UserInfoPage(),
  ),
);
} else {
  // Show an error message or take any other action
  // For now, print an error message to the console
  print('Invalid OTP. Please enter the correct OTP (9999).');
}
},
text: 'NEXT',
textStyle: TextStyle(color: context.theme.authAppbartextColor),
)
);
}
}

```

Output:



**Conclusion: An interactive form using Widgets has been created in Flutter application.**