

## MAD & PWA LAB

### Experiment 4

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**Class:** D15A

**Roll no:** 24

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

**Code:**

**Login page:**

```
import
'package:country_picker/country_picker.d
art';

import 'package:flutter/material.dart';

import
'package:flutter_riverpod/flutter_riverpod
.dart';

import
'package:whatsapp_messenger/common/
extension/custom_theme_extension.dart';

import
'package:whatsapp_messenger/common/
helper/show_alert_dialog.dart';

import
'package:whatsapp_messenger/common/
widgets/custom_elevated_button.dart';

import
'package:whatsapp_messenger/feature/a
uth/controller/auth_controller.dart';

import
'package:whatsapp_messenger/feature/a
uth/widgets/custom_text_field.dart';

import '../../common/utils/coloors.dart';

import
'../../common/widgets/custom_icon_bu
tton.dart';

class LoginPage extends
ConsumerStatefulWidget {

  const LoginPage({super.key});

  @override

  ConsumerState<LoginPage> createState()
=> _LoginPageState();

}

class _LoginPageState extends
ConsumerState<LoginPage> {

  late TextEditingController
countryNameController;

  late TextEditingController
countryCodeController;

  late TextEditingController
phoneNumberController;

  sendCodeToPhone() {

    final phoneNumber =
phoneNumberController.text;

    final countryName =
countryNameController.text;
```

```

        final countryCode =
countryCodeController.text;
    );
}

```

```

    if (phoneNumber.isEmpty) {
        return showAlertDialog(
            context: context,
            message: "Please enter your phone
number",
        );
    } else if (phoneNumber.length < 9) {
        return showAlertDialog(
            context: context,
            message:
                'The phone number you entered is
too short for the country:
$countryName\n\nInclude your area code
if you haven\'t',
        );
    } else if (phoneNumber.length > 10) {
        return showAlertDialog(
            context: context,
            message:
                "The phone number you entered is
too long for the country: $countryName",
        );
    }
}

```

```

        ref.read(authControllerProvider).sendS
msCode(
            context: context,
            phoneNumber:
                "+$countryCode$phoneNumber",

```

```

        showCountryPickerBottomSheet() {
            showCountryPicker(
                context: context,
                showPhoneCode: true,
                favorite: ['ET'],
                countryListTheme:
CountryListThemeData(
                    bottomSheetHeight: 600,
                    backgroundColor:
Theme.of(context).colorScheme.surface,
                    flagSize: 22,
                    borderRadius:
BorderRadius.circular(20),
                    textStyle: TextStyle(color:
context.theme.greyColor),
                    inputDecoration: InputDecoration(
                        labelStyle: TextStyle(color:
context.theme.greyColor),
                        prefixIcon: const Icon(
                            Icons.language,
                            color: Colors.greenDark,
                        ),
                        hintText: 'Search country by code or
name',
                        enabledBorder:
UnderlineInputBorder(
                            borderSide: BorderSide(
                                color:
context.theme.greyColor!.withOpacity(.2),

```

```

    ),
    ),
    focusedBorder: const
UnderlineInputBorder(
    borderSide: BorderSide(
    color: Colors.greenDark,
    ),
    ),
    ),
    ),
    ),
    onSelect: (country) {
    countryNameController.text =
country.name;
    countryCodeController.text =
country.phoneCode;
    },
    );
}

@override
void initState() {
    countryNameController =
TextEditingController(text: 'Ethiopia');
    countryCodeController =
TextEditingController(text: '251');
    phoneNumberController =
TextEditingController();
    super.initState();
}

@override

```

```

void dispose() {
    countryNameController.dispose();
    countryCodeController.dispose();
    phoneNumberController.dispose();
    super.dispose();
}

@override
Widget build(BuildContext context) {
    return Scaffold(
    appBar: AppBar(
    backgroundColor:
Theme.of(context).scaffoldBackgroundCol
or,
    elevation: 0,
    title: Text(
    'Enter your phone number',
    style: TextStyle(
    color:
context.theme.authAppBarTextColor,
    ),
    ),
    centerTitle: true,
    actions: [
    CustomIconButton(
    onPressed: () {},
    icon: Icons.more_vert,
    ),
    ],
    ),

```

```

body: Column(
  children: [
    Padding(
      padding: const
EdgeInsets.symmetric(horizontal: 20,
vertical: 10),
      child: RichText(
        textAlign: TextAlign.center,
        text: TextSpan(
          text: 'WhatsApp will need to
verify your number. ',
          style: TextStyle(
            color: context.theme.greyColor,
            height: 1.5,
          ),
          children: [
            TextSpan(
              text: "What's my number?",
              style: TextStyle(
                color:
context.theme.blueColor,
              ),
            ),
          ],
        ),
      ),
      const SizedBox(height: 10),
      Padding(
        padding: const
EdgeInsets.symmetric(horizontal: 50),

```

```

child: CustomTextField(
  onTap:
showCountryPickerBottomSheet,
  controller:
countryNameController,
  readOnly: true,
  suffixIcon: const Icon(
    Icons.arrow_drop_down,
    color: Colors.greenDark,
    size: 22,
  ),
),
),
const SizedBox(height: 10),
Padding(
  padding: const
EdgeInsets.symmetric(horizontal: 50),
  child: Row(
    children: [
      SizedBox(
        width: 70,
        child: CustomTextField(
          onTap:
showCountryPickerBottomSheet,
          controller:
countryCodeController,
          prefixText: '+',
          readOnly: true,
        ),
      ),
      const SizedBox(width: 10),

```

```

Expanded(
  child: CustomTextField(
    controller:
phoneNumberController,
    hintText: 'phone number',
    textAlign: TextAlign.left,
    keyboardType:
TextInputType.number,
  ),
),
],
),
),
const SizedBox(height: 20),
Text(
  'Carrier charges may apply',
  style: TextStyle(
    color: context.theme.greyColor,
  ),
),
],
),
floatingActionButtonLocation:
FloatingActionButtonLocation.centerFloat,
floatingActionButton:
CustomElevatedButton(
  onPressed: sendCodeToPhone,
  text: 'NEXT',
  buttonWidth: 90,
),
);
}
}

```

### Verification page:

```

import 'package:flutter/material.dart';
import
'package:flutter_riverpod/flutter_riverpod
.dart';
import
'package:whatsapp_messenger/common/
extension/custom_theme_extension.dart';
import
'package:whatsapp_messenger/feature/a
uth/controller/auth_controller.dart';
import
'package:whatsapp_messenger/feature/a
uth/widgets/custom_text_field.dart';

class VerificationPage extends
ConsumerWidget {
  const VerificationPage({
    super.key,
    required this.smsCodeId,
    required this.phoneNumber,
  });

  final String smsCodeId;
  final String phoneNumber;

```

```

Future<void> verifySmsCode(
    BuildContext context,
    WidgetRef ref,
    String smsCode,
) async {
    await
    ref.read(authControllerProvider).verifySms
    Code(
        context: context,
        smsCodeId: smsCodeId,
        smsCode: smsCode,
    );
}

```

```

@override
Widget build(BuildContext context,
WidgetRef ref) {
    return Scaffold(
        appBar: AppBar(
            backgroundColor:
            Theme.of(context).scaffoldBackgroundCol
            or,
            elevation: 0,
            centerTitle: true,
            title: Text(
                'Verify your number',
                style: TextStyle(
                    color:
                    context.theme.authAppBarTextColor,
                ),
            ),
        ),
    ),

```

```

actions: [
    IconButton(
        onPressed: () {},
        icon: const Icon(Icons.more_vert),
    ),
],
),
body: SingleChildScrollView(
    padding: const
    EdgeInsets.symmetric(horizontal: 20),
    child: Column(
        children: [
            Padding(
                padding: const
                EdgeInsets.symmetric(horizontal: 10),
                child: RichText(
                    textAlign: TextAlign.center,
                    text: TextSpan(
                        style: TextStyle(color:
                        context.theme.greyColor),
                        children: [
                            const TextSpan(
                                text:
                                    "You've tried to register
                                    before requesting an SMS or Call with your
                                    code.",
                                ),
                            TextSpan(
                                text: " Wrong number?",
                                style: TextStyle(

```

```

        color:
context.theme.blueColor,
    ),
    ),
  ],
),
),
const SizedBox(height: 20),
Container(
  padding: const
EdgeInsets.symmetric(horizontal: 80),
  child: CustomTextField(
    hintText: "--- ---",
    fontSize: 30,
    autoFocus: true,
    keyboardType:
TextInputType.number,
    onChanged: (value) async {
      if (value.length == 6) {
        await verifySmsCode(context,
ref, value);
      }
    },
  ),
),
const SizedBox(height: 20),
Text(
  'Enter 6-digit code',
  style: TextStyle(color:
context.theme.greyColor),

```

```

),
const SizedBox(height: 30),
Row(
  children: [
    Icon(Icons.message, color:
context.theme.greyColor),
    const SizedBox(width: 20),
    Text(
      'Resend SMS',
      style: TextStyle(
        color: context.theme.greyColor,
      ),
    ),
  ],
),
const SizedBox(height: 10),
Divider(
  color:
context.theme.greyColor!.withOpacity(.2),
),
const SizedBox(height: 10),
Row(
  children: [
    Icon(Icons.phone, color:
context.theme.greyColor),
    const SizedBox(width: 20),
    Text(
      'Call Me',
      style: TextStyle(
        color: context.theme.greyColor,

```

```

        ),
      ),
    ],
  ),
],
),

```

```

        ),
      ),
    );
  }
}

```

### User\_Info page:

```

import 'dart:io';
import 'dart:typed_data';

import 'package:flutter/material.dart';
import
'package:flutter_riverpod/flutter_riverpod
.dart';
import
'package:image_picker/image_picker.dart'
;
import
'package:whatsapp_messenger/common/
extension/custom_theme_extension.dart';
import
'package:whatsapp_messenger/common/
helper/show_alert_dialog.dart';
import
'package:whatsapp_messenger/common/
utils/colours.dart';
import
'package:whatsapp_messenger/common/
widgets/custom_elevated_button.dart';
import
'package:whatsapp_messenger/common/
widgets/custom_icon_button.dart';
import
'package:whatsapp_messenger/common/
widgets/short_h_bar.dart';

```

```

import
'package:whatsapp_messenger/feature/a
uth/controller/auth_controller.dart';

import
'package:whatsapp_messenger/feature/a
uth/pages/image_picker_page.dart';
import
'package:whatsapp_messenger/feature/a
uth/widgets/custom_text_field.dart';

class UserInfoPage extends
ConsumerStatefulWidget {

  const UserInfoPage({super.key,
this.profileImageUrl});

  final String? profileImageUrl;

  @override
  ConsumerState<UserInfoPage>
createState() => _UserInfoPageState();
}

class _UserInfoPageState extends
ConsumerState<UserInfoPage> {

  File? imageCamera;

  Uint8List? imageGallery;

```



```

late TextEditingController
usernameController;

@override
void initState() {
  super.initState();
  usernameController =
TextEditingController();
}

@override
void dispose() {
  usernameController.dispose();
  super.dispose();
}

Future<void> saveUserDataToFirebase()
async {
  String username =
usernameController.text.trim();

  if (username.isEmpty) {
    showAlertDialog(context: context,
message: 'Please provide a username');
    return;
  }

  if (username.length < 3 ||
username.length > 20) {
    showAlertDialog(
      context: context, message:
'Username length should be between 3-
20');

```

```

    return;
  }

  await
ref.read(authControllerProvider).saveUserI
nfoToFirestore(
    username: username,
    profileImage:
      imageCamera ?? imageGallery ??
widget.profileImageUrl ?? "",
    context: context,
  );
}

void imagePickerTypeBottomSheet() {
  showModalBottomSheet(
    context: context,
    builder: (context) {
      return Padding(
        padding: const
EdgeInsets.symmetric(vertical: 10),
        child: Column(
          mainAxisAlignment: MainAxisAlignment.min,
          children: [
            const ShortHBar(),
            Padding(
              padding: const
EdgeInsets.symmetric(horizontal: 20),
              child: Row(
                children: [
                  const Text(

```



```

);
if (image != null) {
  setState(() {
    imageGallery = image;
    imageCamera = null;
  });
}
}

Widget imagePickerIcon({
  required VoidCallback onTap,
  required IconData icon,
  required String text,
}) {
  return Column(
    children: [
      CustomIconButton(
        onPressed: onTap,
        icon: icon,
        iconColor: Colors.greenDark,
        minWidth: 50,
        border: Border.all(color:
context.theme.greyColor!.withOpacity(.2))
        ,
      ),
      const SizedBox(height: 5),
      Text(text, style: TextStyle(color:
context.theme.greyColor)),
    ],
  );
}

}

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      backgroundColor:
Theme.of(context).colorScheme.surface,
      elevation: 0,
      title: Text(
        'Profile info',
        style: TextStyle(color:
context.theme.authAppBarTextColor),
      ),
      centerTitle: true,
    ),
    body: SingleChildScrollView(
      padding: const
EdgeInsets.symmetric(horizontal: 20),
      child: Column(
        children: [
          Text(
            'Please provide your name and an
optional profile photo',
            textAlign: TextAlign.center,
            style: TextStyle(color:
context.theme.greyColor),
          ),
          const SizedBox(height: 40),
          GestureDetector(

```

```

      onTap:
imagePickerTypeBottomSheet,
      child: Container(
        padding: const EdgeInsets.all(26),
        decoration: BoxDecoration(
          shape: BoxShape.circle,
          color:
context.theme.photoIconBgColor,
          border: Border.all(
            color: (imageCamera == null
&&
              imageGallery == null &&
              widget.profileImageUrl ==
null)
              ? Colors.transparent
              :
context.theme.greyColor!.withOpacity(.4),
          ),
          image: (imageCamera != null ||
            imageGallery != null ||
            widget.profileImageUrl !=
null)
            ? DecorationImage(
              fit: BoxFit.cover,
              image: imageGallery != null
                ?
MemoryImage(imageGallery!)
                : widget.profileImageUrl
!= null
                ?
NetworkImage(widget.profileImageUrl!)

```

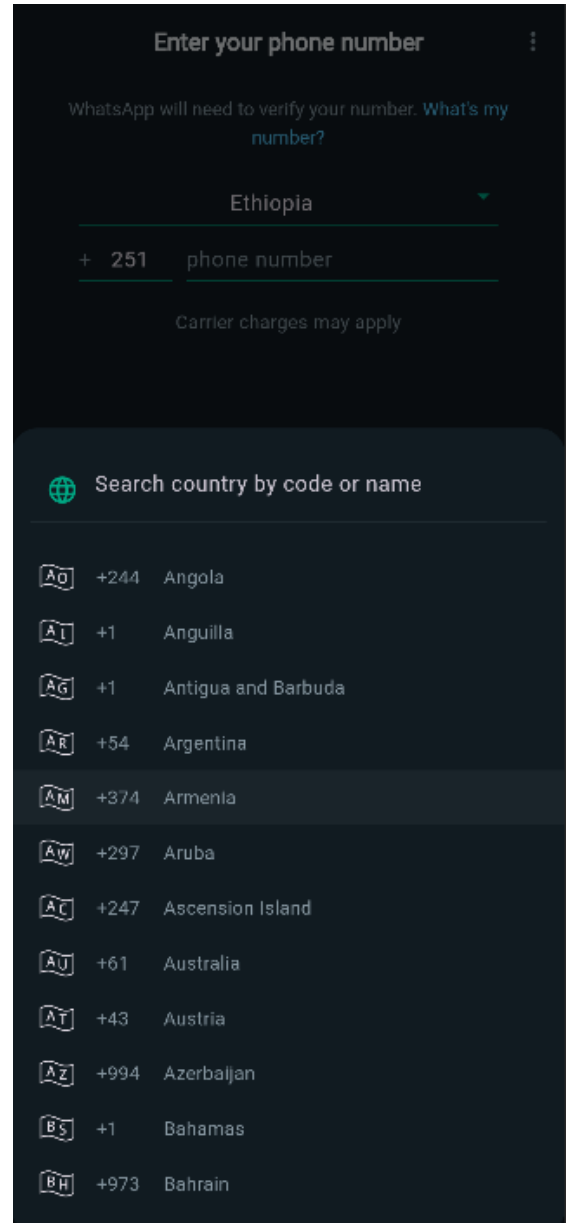
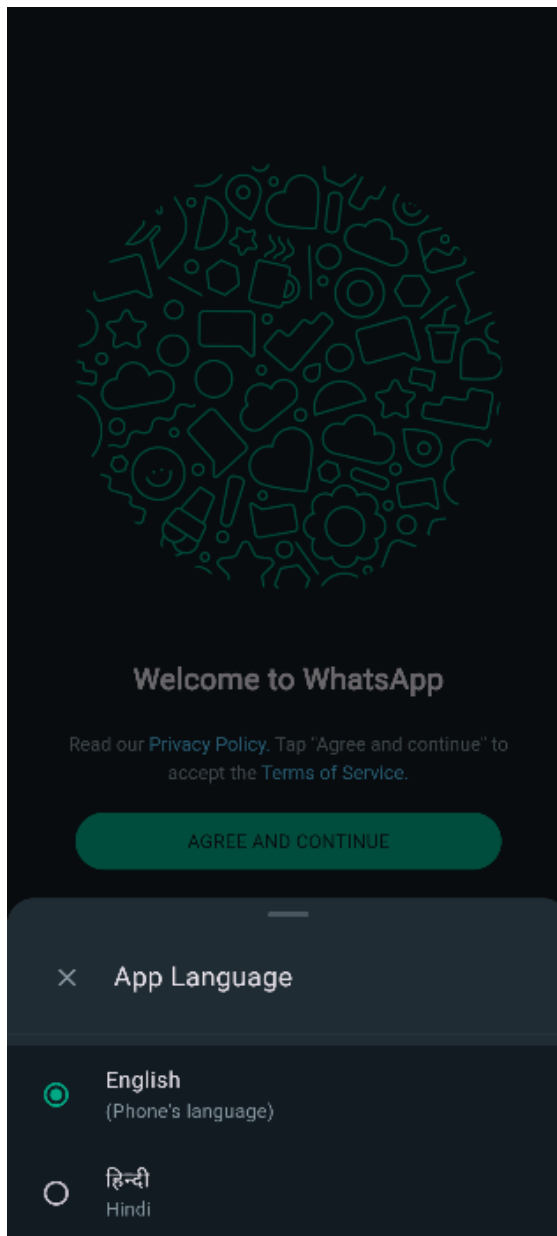
```

      :
FileImage(imageCamera!) as
ImageProvider,
      )
      : null,
    ),
    child: Icon(
      Icons.add_a_photo_rounded,
      size: 48,
      color: (imageCamera == null &&
        imageGallery == null &&
        widget.profileImageUrl ==
null)
        ?
context.theme.photoIconColor
        : Colors.transparent,
    ),
    ),
    ),
    const SizedBox(height: 40),
    CustomTextField(
      controller: usernameController,
      hintText: 'Type your name here',
      autoFocus: true),
  ],
),
),
floatingActionButton:
CustomElevatedButton(
  onPressed: saveUserDataToFirebase,
  text: 'NEXT', buttonWidth: 90),
);

```

```
}  
}
```

## Output:



Enter your phone number

WhatsApp will need to verify your number. [What's my number?](#)

India

+ 91 9356229062

Carrier charges may apply

NEXT


Verify your number

You've tried to register before requesting an SMS or Call with your code. [Wrong number?](#)

Enter 6-digit code

Resend SMS

Call Me

Privacy & Terms

## Profile Info

Please provide your name and an optional profile photo



Niraj

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