EXPERIMENT NO: - 04

Name:- Laksh Sodhai **Class:-** D15A **Roll:No: -** 57

AIM: - To create an interactive Form using form widget.

Theory: -

A form in Flutter is a structured container that collects user input through various fields like text fields, dropdowns, checkboxes, and buttons. It plays a crucial role in applications that require user data entry, such as login pages, registration forms, and feedback submissions. Flutter provides the Form widget, which works alongside TextFormField and other input elements to manage validation, state handling, and error messages efficiently. By using form validation techniques, developers can ensure data accuracy and enhance user experience.

When you create a form, it is necessary to provide the GlobalKey. This key uniquely identifies the form and allows you to do any validation in the form fields. The form widget uses child widget TextFormField to provide the users to enter the text field. This widget renders a material design text field and also allows us to display validation errors when they occur.

Creation of a Form

- While creating a form in Flutter, the **Form widget** is essential as it acts as a container for grouping multiple form fields and managing validation.

- A **GlobalKey<FormState>** is required to uniquely identify the form and enable validation or data retrieval from the form fields.

- The **TextFormField widget** is used to provide input fields where users can enter data such as names, phone numbers, or email addresses.

- To enhance the appearance and usability of input fields, **InputDecoration** is used, allowing customization of labels, icons, borders, and hint text.

- Validation plays a crucial role in forms, and the **validator property** within **TextFormField** ensures user input meets specific criteria before submission.

- Different types of input require appropriate **keyboard types**, such as TextInputType.number for numeric fields or TextInputType.emailAddress for email fields.

- Proper **state management** is needed to store and retrieve user input, ensuring the form data is processed correctly.

- A **submit button** is necessary to trigger form validation and submit the collected data for further processing.

Some Properties of Form Widget

- **key:** A GlobalKey that uniquely identifies the Form. You can use this key to interact with the form, such as validating, resetting, or saving its state.
- **child:** The child widget that contains the form fields. Typically, this is a Column, ListView, or another widget that allows you to arrange the form fields vertically.
- **autovalidateMode:** An enum that specifies when the form should automatically validate its fields.

Some Methods of Form Widget

- **validate():** This method is used to trigger the validation of all the form fields within the Form. It returns true if all fields are valid, otherwise false. You can use it to check the overall validity of the form before submitting it.
- **save():** This method is used to save the current values of all form fields. It invokes the onSaved callback for each field. Typically, this method is called after validation succeeds.
- **reset():** Resets the form to its initial state, clearing any user-entered data.
- **currentState:** A getter that returns the current FormState associated with the Form.

Code: -

login_screen.dart

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

class LoginScreen extends StatefulWidget {
 const LoginScreen({super.key});

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

class _LoginScreenState extends
State<LoginScreen> {
 final _formKey = GlobalKey<FormState>();
 final _emailController =
TextEditingController();
 final _passwordController =
TextEditingController();
 bool _isPasswordVisible = false;

 @override
 Widget build(BuildContext context) {
  return Scaffold(
   body: Container(
    decoration: const BoxDecoration(
     gradient: LinearGradient(
      begin: Alignment.topCenter,
      end: Alignment.bottomCenter,
      colors: [
       Color(0xFF1A237E),
       Color(0xFF0D47A1),
       Color(0xFF01579B),
      ],
     ),
    ),
    child: Stack(
     children: [
     Positioned(
       top: -100,
       right: -100,
       child: Container(
       width: 200,
        height: 200,
        decoration: BoxDecoration(
         shape: BoxShape.circle,
         color: Colors.white.withOpacity(0.1),
        ),
       ),
      ),
      Positioned(
       bottom: -50,
       left: -50,
       child: Container(
        width: 150,
        height: 150,
        decoration: BoxDecoration(
         shape: BoxShape.circle,
         color: Colors.white.withOpacity(0.1),
        ),
       ),
      ),
      SingleChildScrollView(
       child: Padding(
        padding: const EdgeInsets.all(20.0),
        child: Form(
         key: _formKey,
         child: Column(
          mainAxisAlignment:
MainAxisAlignment.center,
          children: [
           const SizedBox(height: 80),
           Container(
            padding: const EdgeInsets.all(20),
            decoration: BoxDecoration(
             borderRadius:
BorderRadius.circular(30),
             boxShadow: [
              BoxShadow(
               color:
Colors.blue.withOpacity(0.2),
               blurRadius: 20,
               spreadRadius: 5,
              ),
             ],
            ),
            child: Column(
             children: [
             Container(
               padding: const
EdgeInsets.all(16),
               decoration: BoxDecoration(
                color: Colors.white,
                shape: BoxShape.circle,
                boxShadow: [
                BoxShadow(
                  color:
Colors.blue.withOpacity(0.5),
                  blurRadius: 20,
                  spreadRadius: 5,
                 ),
                ],
               ),
               child: const Icon(
                Icons.shield,
                size: 80,
                color: Colors.blue,
               ),
              ),
              const SizedBox(height: 20),
              ShaderMask(
                shaderCallback: (bounds) =>
const LinearGradient(
                      colors: [Colors.white,
Colors.lightBlueAccent],
               ).createShader(bounds),
               child: const Text(
               'SecureShield VPN',
               style: TextStyle(
                 fontSize: 32,
                              fontWeight:
FontWeight.bold,
                 color: Colors.white,
                ),
               ),
              ),
              const Text(
               'Secure • Fast • Reliable',
               style: TextStyle(
                color: Colors.white70,
                fontSize: 16,
               ),
              ),
             ],
            ),
           ),
           const SizedBox(height: 40),
           Container(
            decoration: BoxDecoration(
             color: Colors.white10,
                            borderRadius:
BorderRadius.circular(15),
                    border: Border.all(color:
 Colors.white24),
            ),
            child: TextFormField(
             controller: _emailController,
                 style: const TextStyle(color:
Colors.white),
             decoration: InputDecoration(
              labelText: 'Email',
```

```
                          labelStyle: const
TextStyle(color: Colors.white70),
              border: OutlineInputBorder(
                            borderRadius:
BorderRadius.circular(15),
               borderSide: BorderSide.none,
              ),
                          prefixIcon: const
Icon(Icons.email, color: Colors.white70),
             ),
             validator: (value) {
              if (value?.isEmpty ?? true) {
               return 'Please enter email';
              }
              return null;
             },
            ),
           ),
           const SizedBox(height: 20),
           Container(
            decoration: BoxDecoration(
             color: Colors.white10,
                            borderRadius:
BorderRadius.circular(15),
                    border: Border.all(color:
 Colors.white24),
            ),
            child: TextFormField(
             controller: _passwordController,
                 style: const TextStyle(color:
Colors.white),
                             obscureText:
!_isPasswordVisible,
             decoration: InputDecoration(
              labelText: 'Password',
                          labelStyle: const
TextStyle(color: Colors.white70),
              border: OutlineInputBorder(
                            borderRadius:
BorderRadius.circular(15),
               borderSide: BorderSide.none,
              ),
                          prefixIcon: const
Icon(Icons.lock, color: Colors.white70),
              suffixIcon: IconButton(
               icon: Icon(
                _isPasswordVisible
                  ? Icons.visibility
                  : Icons.visibility_off,
                color: Colors.white70,
               ),
               onPressed: () {
                setState(() {
                      _isPasswordVisible =
!_isPasswordVisible;
                });
               },
              ),
             ),
             validator: (value) {
              if (value?.isEmpty ?? true) {
               return 'Please enter password';
              }
              return null;
             },
            ),
           ),
           const SizedBox(height: 10),
           Align(
                                  alignment:
Alignment.centerRight,
            child: TextButton(
             onPressed: () {
                   // Add forgot password
functionality
             },
             child: const Text(
              'Forgot Password?',
                     style: TextStyle(color:
Colors.white70),
             ),
            ),
           ),
           const SizedBox(height: 20),
           Container(
            decoration: BoxDecoration(
             gradient: const LinearGradient(
                      colors: [Colors.blue,
Colors.lightBlue],
             ),
                               borderRadius:
BorderRadius.circular(15),
             boxShadow: [
              BoxShadow(
                                     color:
Colors.blue.withOpacity(0.3),
               blurRadius: 10,
               spreadRadius: 2,
              ),
             ],
            ),
            child: ElevatedButton(
             onPressed: () {
                                        if
(_formKey.currentState?.validate() ?? false) {
               Navigator.push(
                context,
                MaterialPageRoute(
                       builder: (context) =>
OTPVerificationScreen(
                                     email:
_emailController.text,
                 ),
                ),
               );
              }
             },
             style: ElevatedButton.styleFrom(
                           backgroundColor:
Colors.transparent,
                               shadowColor:
Colors.transparent,
                       minimumSize: const
Size.fromHeight(55),
                                     shape:
RoundedRectangleBorder(
                              borderRadius:
BorderRadius.circular(15),
              ),
             ),
             child: const Text(
              'Login',
              style: TextStyle(
               fontSize: 18,
               fontWeight: FontWeight.bold,
               color: Colors.white,
              ),
             ),
            ),
           ),
           const SizedBox(height: 20),
           Row(
                        mainAxisAlignment:
MainAxisAlignment.center,
            children: [
             Container(
             height: 1,
              width: 50,
              color: Colors.white24,
             ),
             const Padding(
                                   padding:
EdgeInsets.symmetric(horizontal: 10),
              child: Text(
               'Or continue with',
                     style: TextStyle(color:
```

```
Colors.white70),
               ),
              ),
              Container(
               height: 1,
               width: 50,
               color: Colors.white24,
              ),
             ],
            ),
            const SizedBox(height: 20),
            Row(
             mainAxisAlignment: MainAxisAlignment.center,
             children: [
              _buildSocialButton(
               icon: Icons.phone,
               onPressed: () {
                // Add phone login functionality
               },
              ),
              const SizedBox(width: 20),
              _buildSocialButton(
               icon: Icons.g_mobiledata,
               onPressed: () {
                // Add Google login functionality
               },
              ),
             ],
            ),
            const SizedBox(height: 20),
            Row(
             mainAxisAlignment: MainAxisAlignment.center,
             children: [
              const Text(
               "Don't have an account? ",
               style: TextStyle(color: Colors.white70),
              ),
              TextButton(
               onPressed: () {
               Navigator.push(
                 context,
                 MaterialPageRoute(
                   builder: (context) => const RegisterScreen(),
                 ),
                );
               },
```

```
              child: const Text(
               'Sign Up',
               style: TextStyle(
                color: Colors.white,
                 fontWeight: FontWeight.bold,
               ),
              ),
             ),
            ],
           ),
          ],
         ),
        ),
       ),
      ),
     ],
    ),
   ),
  );
 }

 Widget _buildSocialButton({
  required IconData icon,
  required VoidCallback onPressed,
 }) {
  return Container(
   decoration: BoxDecoration(
    color: Colors.white10,
    borderRadius: BorderRadius.circular(15),
    border: Border.all(color: Colors.white24),
   ),
   child: IconButton(
    icon: Icon(icon, color: Colors.white),
    onPressed: onPressed,
   ),
  );
 }
}
```

register_screen.dart

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

class RegisterScreen extends StatefulWidget {
const RegisterScreen({super.key});

@override
State<RegisterScreen> createState() =>
_RegisterScreenState();
}

class _RegisterScreenState extends
State<RegisterScreen> {
final _formKey = GlobalKey<FormState>();
final _nameController = TextEditingController();
final _emailController = TextEditingController();
final _passwordController = TextEditingController();
bool _isPasswordVisible = false;

@override
Widget build(BuildContext context) {
return Scaffold(
body: Container(
decoration: const BoxDecoration(
gradient: LinearGradient(
begin: Alignment.topCenter,
end: Alignment.bottomCenter,
colors: [
Color(0xFF1A237E),
Color(0xFF0D47A1),
Color(0xFF01579B),
],
),
),
child: SafeArea(
child: SingleChildScrollView(
child: Padding(
padding: const EdgeInsets.all(20.0),
child: Form(
key: _formKey,
child: Column(
crossAxisAlignment: CrossAxisAlignment.start,
children: [
IconButton(
icon: const Icon(Icons.arrow_back_ios, color:
Colors.white),
onPressed: () => Navigator.pop(context),
),
const SizedBox(height: 20),
const Text(
'Create Account',
style: TextStyle(
fontSize: 32,
fontWeight: FontWeight.bold,
color: Colors.white,
),
),
const SizedBox(height: 10),
Text(
'Join SecureShield VPN',
style: TextStyle(
color: Colors.white.withOpacity(0.7),
fontSize: 16,
),
),
const SizedBox(height: 40),
// Name Field
Container(
decoration: BoxDecoration(
color: Colors.white10,
borderRadius: BorderRadius.circular(15),
border: Border.all(color: Colors.white24),
),
child: TextFormField(
controller: _nameController,
style: const TextStyle(color: Colors.white),
decoration: InputDecoration(
labelText: 'Full Name',
labelStyle: const TextStyle(color: Colors.white70),
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(15),
borderSide: BorderSide.none,
),
prefixIcon: const Icon(Icons.person, color:
Colors.white70),
),
validator: (value) {
if (value?.isEmpty ?? true) {
return 'Please enter your name';
}
return null;
},
),
),
const SizedBox(height: 20),
// Email Field
Container(
decoration: BoxDecoration(
color: Colors.white10,
borderRadius: BorderRadius.circular(15),
border: Border.all(color: Colors.white24),
),
child: TextFormField(
controller: _emailController,
style: const TextStyle(color: Colors.white),
decoration: InputDecoration(
labelText: 'Email',
labelStyle: const TextStyle(color: Colors.white70),
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(15),
borderSide: BorderSide.none,
),
prefixIcon: const Icon(Icons.email, color:
Colors.white70),
),
validator: (value) {
if (value?.isEmpty ?? true) {
return 'Please enter email';
}
if (!value!.contains('@')) {
return 'Please enter valid email';
}
return null;
},
),
),
const SizedBox(height: 20),
// Password Field
Container(
decoration: BoxDecoration(
color: Colors.white10,
borderRadius: BorderRadius.circular(15),
border: Border.all(color: Colors.white24),
),
child: TextFormField(
controller: _passwordController,
style: const TextStyle(color: Colors.white),
obscureText: !_isPasswordVisible,
decoration: InputDecoration(
labelText: 'Password',
labelStyle: const TextStyle(color: Colors.white70),
border: OutlineInputBorder(
borderRadius: BorderRadius.circular(15),
borderSide: BorderSide.none,
),
prefixIcon: const Icon(Icons.lock, color:
Colors.white70),
suffixIcon: IconButton(
icon: Icon(
_isPasswordVisible
? Icons.visibility
    : Icons.visibility_off,
color: Colors.white70,
),
onPressed: () {
setState(() {
_isPasswordVisible = !_isPasswordVisible;
});
},
),
),
validator: (value) {
if (value?.isEmpty ?? true) {
return 'Please enter password';
}
if (value!.length < 6) {
return 'Password must be at least 6 characters';
}
return null;
},
),
),
const SizedBox(height: 40),
// Register Button
Container(
width: double.infinity,
decoration: BoxDecoration(
gradient: const LinearGradient(
colors: [Colors.blue, Colors.lightBlue],
),
borderRadius: BorderRadius.circular(15),
boxShadow: [
BoxShadow(
color: Colors.blue.withOpacity(0.3),
blurRadius: 10,
spreadRadius: 2,
),
],
),
child: ElevatedButton(
onPressed: () {
if (_formKey.currentState?.validate() ?? false) {
Navigator.push(
context,
MaterialPageRoute(
builder: (context) => OTPVerificationScreen(
email: _emailController.text,
),
),
);
}
},
style: ElevatedButton.styleFrom(
backgroundColor: Colors.transparent,
shadowColor: Colors.transparent,
padding: const EdgeInsets.symmetric(vertical: 15),
shape: RoundedRectangleBorder(
borderRadius: BorderRadius.circular(15),
),
),
child: const Text(
'Create Account',
style: TextStyle(
fontSize: 18,
fontWeight: FontWeight.bold,
),
),
),
),
const SizedBox(height: 20),
// Login Option
Row(
mainAxisAlignment: MainAxisAlignment.center,
children: [
const Text(
'Already have an account? ',
style: TextStyle(color: Colors.white70),
),
TextButton(
onPressed: () => Navigator.pop(context),
child: const Text(
'Login',
style: TextStyle(
color: Colors.white,
fontWeight: FontWeight.bold,
),
),
),
],
),
],
),
),
),
),
),
),
);
}
}
```

otp_verification_screen.dart

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

import 'dart:async';


class OTPVerificationScreen extends StatefulWidget {

 final String? email;

 final String? phoneNumber;


 const OTPVerificationScreen({

  super.key,

  this.email,

  this.phoneNumber,

 }) : assert(email != null || phoneNumber != null);


 @override

 State<OTPVerificationScreen> createState() =>

_OTPVerificationScreenState();

}


class _OTPVerificationScreenState extends

State<OTPVerificationScreen> {

 final List<TextEditingController> _controllers =

List.generate(

  4,

    (index) => TextEditingController(),

 );
```

```
final List<FocusNode> _focusNodes = List.generate(

 4,

   (index) => FocusNode(),

);


Timer? _timer;

int _timeLeft = 30;


@override

void initState() {

 super.initState();

 startTimer();

}


void startTimer() {

 _timer = Timer.periodic(const Duration(seconds: 1),

(timer) {

   if (_timeLeft > 0) {

    setState(() {

     _timeLeft--;

    });

   } else {

    _timer?.cancel();

   }

 });

}
```

```
  @override
  void dispose() {
    _timer?.cancel();
    for (var controller in _controllers) {
      controller.dispose();
    }
    for (var node in _focusNodes) {
      node.dispose();
    }
    super.dispose();
  }

  void verifyOTP() {
    String otp = _controllers.map((e) => e.text).join();
    if (otp.length == 4) {
      // Here you would typically verify the OTP with your
backend
      Navigator.pushReplacementNamed(context, '/main');
    }
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Container(
        decoration: const BoxDecoration(
          gradient: LinearGradient(
            begin: Alignment.topCenter,
            end: Alignment.bottomCenter,
            colors: [
              Color(0xFF1A237E),
              Color(0xFF0D47A1),
              Color(0xFF01579B),
            ],
          ),
        ),
        child: SafeArea(
          child: Padding(
            padding: const EdgeInsets.all(20.0),
            child: Column(
              crossAxisAlignment:
CrossAxisAlignment.start,
              children: [
                IconButton(
                  icon: const Icon(Icons.arrow_back_ios,
color: Colors.white),
                  onPressed: () => Navigator.pop(context),
                ),
                const SizedBox(height: 30),
                const Text(
                  'Verification Code',
                  style: TextStyle(
                    fontSize: 32,
                    fontWeight: FontWeight.bold,
                    color: Colors.white,
                  ),
                ),
                const SizedBox(height: 10),
                Text(
                  'We have sent the verification code
to\n${widget.email ?? widget.phoneNumber}',
                  style: TextStyle(
                    color: Colors.white.withOpacity(0.7),
                    fontSize: 16,
                  ),
                ),
                const SizedBox(height: 50),
                Row(
                  mainAxisAlignment:
MainAxisAlignment.spaceEvenly,
                  children: List.generate(
                    4,
                        (index) => SizedBox(
                      width: 60,
                      child: Container(
                        decoration: BoxDecoration(
                          color: Colors.white.withOpacity(0.1),
                          borderRadius:
BorderRadius.circular(15),
                          border: Border.all(color:
Colors.white24),
                        ),
                        child: TextField(
                          controller: _controllers[index],
                          focusNode: _focusNodes[index],
                          textAlign: TextAlign.center,
                          style: const TextStyle(
                            color: Colors.white,
                            fontSize: 24,
                            fontWeight: FontWeight.bold,
                          ),
                          keyboardType: TextInputType.number,
                          maxLength: 1,
                          decoration: InputDecoration(
                            counterText: '',
                            filled: true,
                            fillColor: Colors.transparent,
                            border: OutlineInputBorder(
                              borderRadius:
BorderRadius.circular(15),
                              borderSide: BorderSide.none,
                            ),
                          ),
             onChanged: (value) {
              if (value.isNotEmpty && index < 3) {
               _focusNodes[index +
1].requestFocus();
              }
              if (value.isEmpty && index > 0) {
               _focusNodes[index -
1].requestFocus();
              }
              if (index == 3 && value.isNotEmpty)
{
               verifyOTP();
              }
             },
            ),
           ),
          ),
         ),
        ),
        const SizedBox(height: 40),
        Center(
         child: Text(
          'Time remaining: $_timeLeft seconds',
          style: const TextStyle(
           color: Colors.white70,
           fontSize: 16,
```

```
          ),
         ),
        ),
        const SizedBox(height: 20),
        if (_timeLeft == 0)
         Center(
          child: TextButton(
           onPressed: () {
            setState(() {
             _timeLeft = 30;
            });
            startTimer();
            // Here you would typically resend the
OTP
           },
           child: const Text(
            'Resend Code',
            style: TextStyle(
             color: Colors.white,
             fontSize: 16,
            ),
           ),
          ),
         ),
        const Spacer(),
        Container(
                  width: double.infinity,
                  decoration: BoxDecoration(
                    gradient: const LinearGradient(
                      colors: [Colors.blue, Colors.lightBlue],
                    ),
                    borderRadius: BorderRadius.circular(15),
                    boxShadow: [
                      BoxShadow(
                        color: Colors.blue.withOpacity(0.3),
                        blurRadius: 10,
                        spreadRadius: 2,
                      ),
                    ],
                  ),
                  child: ElevatedButton(
                    onPressed: verifyOTP,
                    style: ElevatedButton.styleFrom(
                      backgroundColor: Colors.transparent,
                      shadowColor: Colors.transparent,
                      padding: const EdgeInsets.symmetric(vertical: 15),
                      shape: RoundedRectangleBorder(
                        borderRadius: BorderRadius.circular(15),
                      ),
                    ),
                    child: const Text(
                      'Verify',
                      style: TextStyle(
                        fontSize: 18,
                        fontWeight: FontWeight.bold,
                      ),
                    ),
                  ),
                ),
              ),
            ],
          ),
        ),
      ),
    ),
  );
}
}
```

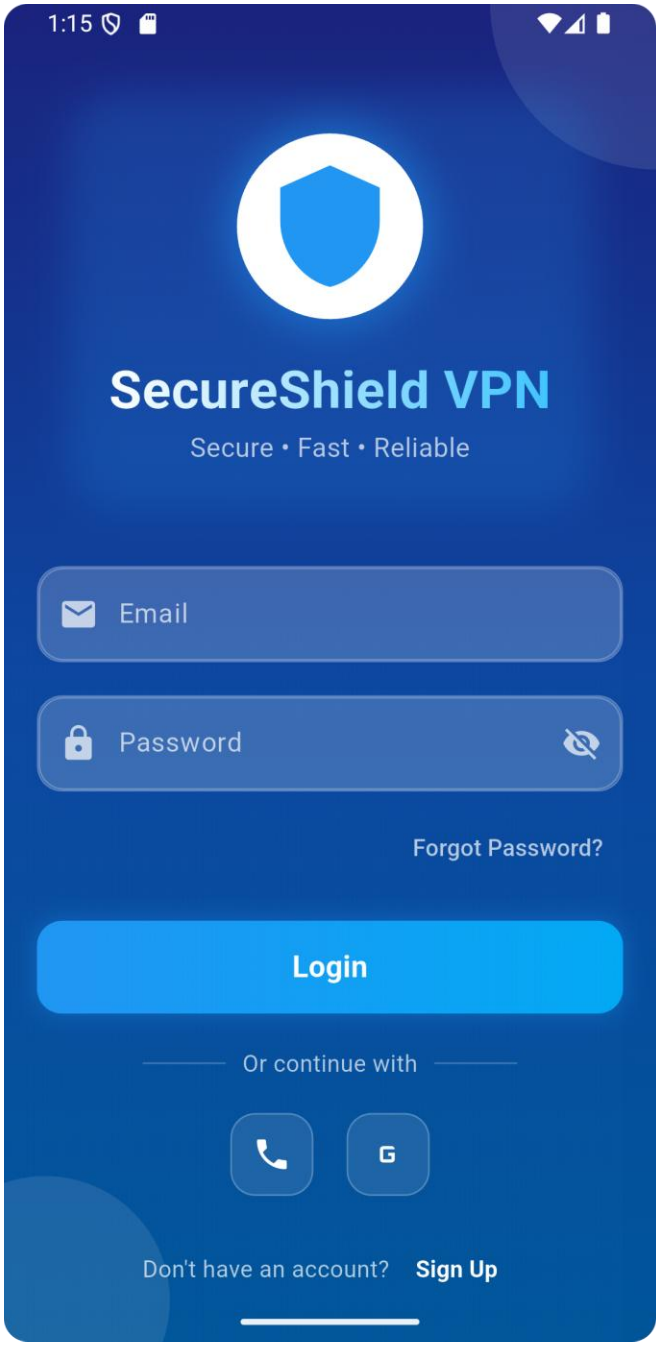
profile_screen.dart

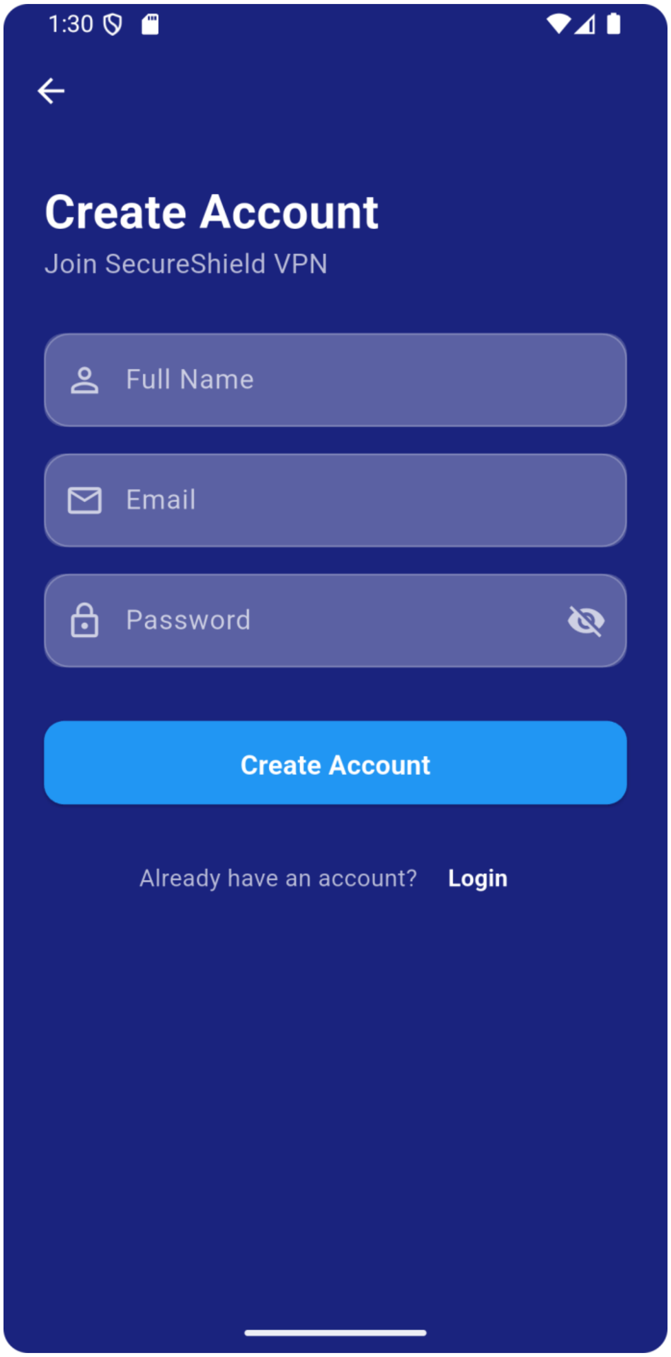
```
import 'package:flutter/material.dart';
import 'dart:math';
import 'dart:async';
class ProfileScreen extends StatelessWidget {
  const ProfileScreen({super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.transparent,
      body: SingleChildScrollView(
        child: Column(
          children: [
            _buildProfileHeader(),
            _buildProfileOptions(),
          ],
        ),
      ),
    );
  }

  Widget _buildProfileHeader() {
    return Container(
      padding: const EdgeInsets.all(32),
      decoration: BoxDecoration(
        gradient: LinearGradient(
          colors: [Colors.blue.shade900,
Colors.purple.shade900],
        ),
        borderRadius: const
BorderRadius.vertical(bottom:
Radius.circular(30)),
      ),
      child: SafeArea(
        child: Column(
          children: [
            const CircleAvatar(
              radius: 50,
              backgroundColor: Colors.white,
              child: Icon(Icons.person, size: 50, color:
Colors.blue),
            ),
            const SizedBox(height: 16),
            const Text('Free User',
              style: TextStyle(
                color: Colors.white,
                fontSize: 24,
                fontWeight: FontWeight.bold,
              ),
            ),
            const SizedBox(height: 16),
            _buildPremiumButton(),
          ],
        ),
      ),
    );
  }

  Widget _buildPremiumButton() {
    return Container(
      decoration: BoxDecoration(
        gradient: LinearGradient(
          colors: [Colors.amber.shade400,
Colors.orange.shade400],
        ),
        borderRadius: BorderRadius.circular(15),
        boxShadow: [
          BoxShadow(
            color: Colors.amber.withOpacity(0.3),
            blurRadius: 10,
            spreadRadius: 2,
          ),
        ],
      ),
      child: ElevatedButton(
        onPressed: () {},
        style: ElevatedButton.styleFrom(
          backgroundColor: Colors.transparent,
          shadowColor: Colors.transparent,
          padding: const
EdgeInsets.symmetric(horizontal: 32, vertical: 12),
          shape:
RoundedRectangleBorder(borderRadius:
BorderRadius.circular(15)),
        ),
        child: const Row(
          mainAxisSize: MainAxisSize.min,
          children: [
            Icon(Icons.star, color: Colors.white),
            SizedBox(width: 8),
            Text('Upgrade to Premium',
              style: TextStyle(color: Colors.white,
fontWeight: FontWeight.bold),
            ),
          ],
        ),
      ),
    );
  }

  Widget _buildProfileOptions() {
    return Padding(
      padding: const EdgeInsets.all(16),
      child: Column(
        children: [
          _buildOptionTile('Connection History',
Icons.history),
          _buildOptionTile('Support',
Icons.support_agent),
          _buildOptionTile('About', Icons.info),
          _buildOptionTile('Logout', Icons.logout,
isLogout: true),
        ],
      ),
    );
  }

  Widget _buildOptionTile(String title, IconData
icon, {bool isLogout = false}) {
    return Container(
      margin: const EdgeInsets.only(bottom: 12),
      decoration: BoxDecoration(
        color: Colors.white.withOpacity(0.1),
        borderRadius: BorderRadius.circular(15),
        border: Border.all(color: Colors.white24),
      ),
      child: ListTile(
        leading: Container(
          padding: const EdgeInsets.all(8),
          decoration: BoxDecoration(
            color: (isLogout ? Colors.red :
Colors.blue).withOpacity(0.2),
            borderRadius: BorderRadius.circular(10),
          ),
          child: Icon(icon,
            color: isLogout ? Colors.red : Colors.blue,
          ),
        ),
        title: Text(title,
          style: TextStyle(
            color: isLogout ? Colors.red :
Colors.white,
            fontWeight: FontWeight.bold,
          ),
        ),
        trailing: const
Icon(Icons.arrow_forward_ios,
          color: Colors.white70,
          size: 16,
        ),
      ),
    );
  }
}
```

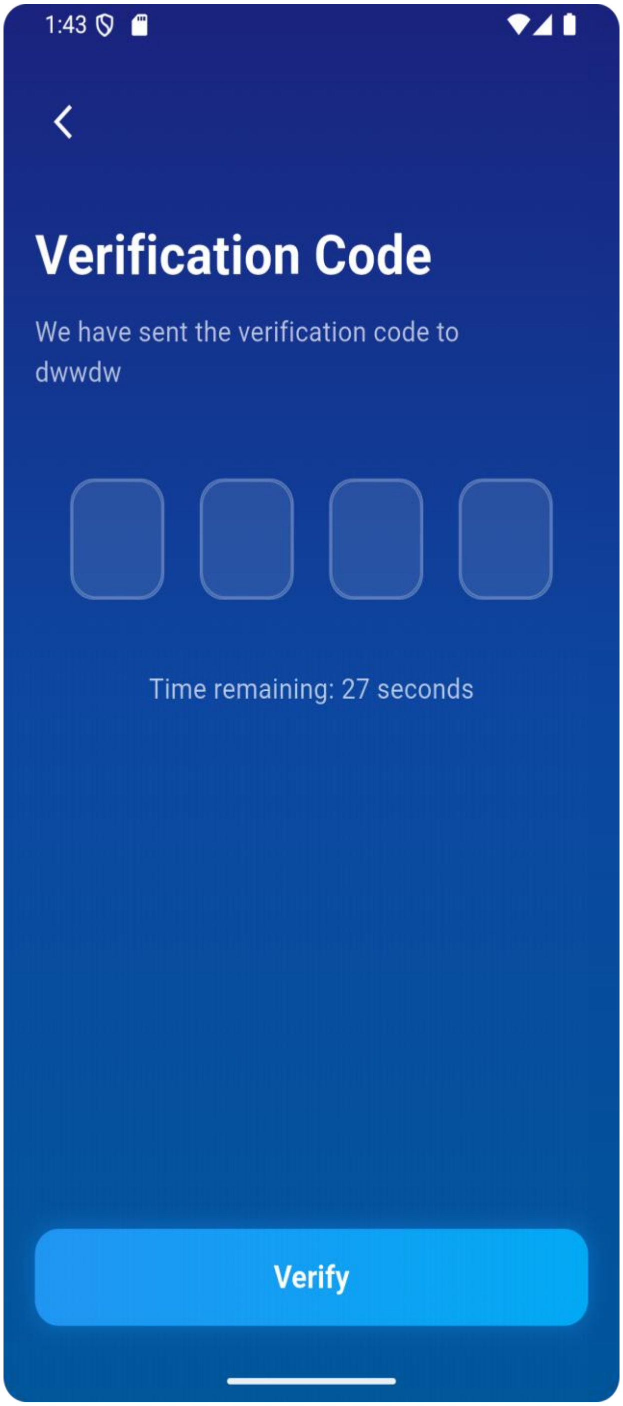
```
Widget  _buildTextField({
  required    String    label,
  required                String
  initialValue,
  required Function(String?) onSaved,
}) {
  return        TextFormField(
    initialValue:  initialValue,
    decoration:
    InputDecoration(
    labelText: label,
      border: OutlineInputBorder(),
    ),
    onSaved: onSaved,

  );
}
```

```
TextStyle(fontSize:
          18)), Column(
            children:       myCrops.map((crop)        => Text(crop)).toList(),
          ),
        ],
      ),
    );
  }
```

OUTPUT: -


1:15
SecureShield VPN
Secure • Fast • Reliable
Email
Password
Forgot Password?
Login
Or continue with
G
Don't have an account? Sign Up

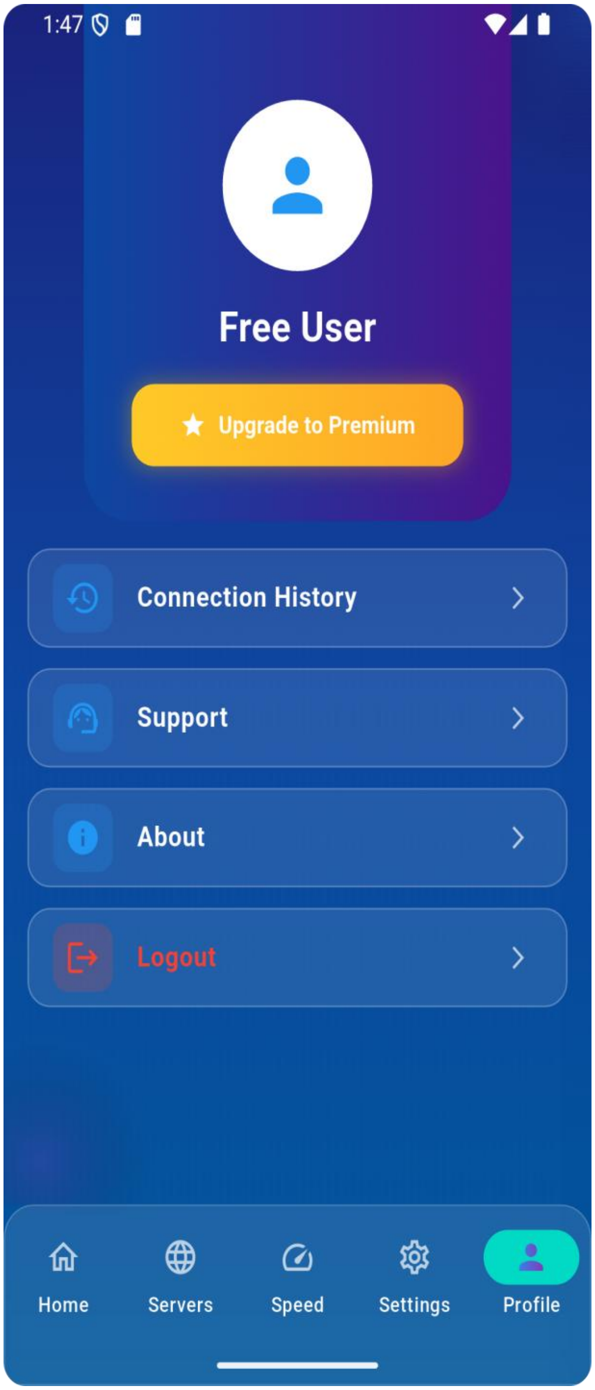

1:30
Create Account
Join SecureShield VPN
Full Name
Email
Password
Create Account
Already have an account? Login



Verification Code

We have sent the verification code to dwwdw

Time remaining: 27 seconds


1:47
Free User
Upgrade to Premium
Connection History
Support
About
Logout
Home
Servers
Speed
Settings
Profile