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import 'package:flutter/material.dart';

void main() {
  runApp(const MyApp());
}

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'Activity 6',
      theme: ThemeData(
        colorScheme: ColorScheme.fromSeed(seedColor: Colors.deepPurple),
      ),
      home: const MyHomePage(title: 'Activity 6'),
    );
  }
}

class MyHomePage extends StatefulWidget {
  const MyHomePage({super.key, required this.title});

  final String title;

  @override
  State<MyHomePage> createState() => _MyHomePageState();
}

class _MyHomePageState extends State<MyHomePage> {
  final _formKey = GlobalKey<FormState>();

  // Controllers to retrieve user input
  final TextEditingController _nameController = TextEditingController();
  final TextEditingController _ageController = TextEditingController();
  final TextEditingController _emailController = TextEditingController();

  @override
  void dispose() {
    _nameController.dispose();
    _ageController.dispose();
    _emailController.dispose();
    super.dispose();
  }

  void _submitForm() {
    if (_formKey.currentState?.validate() ?? false) {

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    final String name = _nameController.text;
    final String age = _ageController.text;
    final String email = _emailController.text;

    final String message =
        'Name: $name\nAge: $age\nEmail: $email';

    // Show the submitted data in an AlertDialog
    showDialog(
      context: context,
      builder: (context) => AlertDialog(
        title: const Text('Submitted Data'),
        content: Text(message),
        actions: [
          TextButton(
            onPressed: () => Navigator.of(context).pop(),
            child: const Text('OK'),
          ),
        ],
      ),
    );
  }
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: const Text('Form Demo'),
    ),
    body: Padding(
      padding: const EdgeInsets.all(16.0),
      child: Form(
        key: _formKey,
        child: Column(
          children: [
// Name field
            TextFormField(
              controller: _nameController,
              decoration: const InputDecoration(
                labelText: 'Name',
                hintText: 'Enter your name',
              ),
              textInputAction: TextInputAction.next,
              validator: (value) {
                if (value == null || value.trim().isEmpty) {
                  return 'Please enter your name';
                }
                return null;
              },
            ),
          ],
        ),
      ),
    ),
  );
}

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    },
  ),
  const SizedBox(height: 16.0),
  // Age field
  TextFormField(
    controller: _ageController,
    decoration: const InputDecoration(
      labelText: 'Age',
      hintText: 'Enter your age',
    ),
    keyboardType: TextInputType.number,
    textInputAction: TextInputAction.next,
    validator: (value) {
      if (value == null || value.trim().isEmpty) {
        return 'Please enter your age';
      }
      final int? age = int.tryParse(value);
      if (age == null || age <= 0) {
        return 'Please enter a valid age';
      }
      return null;
    },
  ),
  const SizedBox(height: 16.0),

  // Email field
  TextFormField(
    controller: _emailController,
    decoration: const InputDecoration(
      labelText: 'Email',
      hintText: 'Enter your email',
    ),
    keyboardType: TextInputType.emailAddress,
    validator: (value) {
      if (value == null || value.trim().isEmpty) {
        return 'Please enter an email';
      }
      final emailRegex = RegExp(
        r'^[^\s@]+@[^\s@]+\.[^\s@]+',
      );
      if (!emailRegex.hasMatch(value)) {
        return 'Please enter a valid email';
      }
      return null;
    },
  ),
  const SizedBox(height: 24.0),

  // Submit button

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        ElevatedButton(  
          onPressed: _submitForm,  
          child: const Text('Submit'),  
        ),  
      ],  
    ),  
  ),  
),  
);  
}  
}
```