

Experiment	2
Aim	Create Dynamic Registration form
Objective	To Create Dynamic Registration form using UI components and Scaffold elements
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Technology	Flutter			
used				
Task	Create Dynamic Webpage for submitting review for movie app along with givin ratings for the same. The webpage should include, name, surname, date of birth, address, email id, phone number, gender, review and ratings for the movie in terr of stars/smiley etc. include validation. The information should be fetched and displayed on the next page for viewing it. Use snackbar, alert dialog box, try adding fan button (static) etc.			
Code with				
proper label	main.dart			
	<pre>import 'package:flutter/material.dart';</pre>			
	<pre>import 'screens/review_form_screen.dart';</pre>			
	<pre>void main() {</pre>			
	<pre>runApp(MyApp());</pre>			
	}			
	class MyApp extends StatelessWidget {			
	@override			
	<pre>Widget build(BuildContext context) {</pre>			
	return MaterialApp(
	debugShowCheckedModeBanner: false,			
	theme: ThemeData(
	<pre>primarySwatch: Colors.teal,</pre>			
	textTheme: TextTheme(
	titleLarge: TextStyle(
	fontSize: 20,			
	fontWeight: FontWeight.bold,			
	color: Colors.white,			
),			
	bodyLarge: TextStyle(
	fontSize: 16,			
	color: Colors.black87,			
	COIOI. COIOIS.DIACKO7,			



```
home: ReviewFormScreen(),
review display screen.dart
import 'package:flutter/material.dart';
class ReviewDisplayScreen extends StatelessWidget {
    required this.name,
    required this.surname,
    required this.address,
    required this.email,
    required this.phone,
    required this.gender,
    required this.review,
    required this.rating,
  });
  @override
    return Scaffold(
      appBar: AppBar(
          padding: EdgeInsets.all(16.0),
          child: Card(
            shape: RoundedRectangleBorder(
              borderRadius: BorderRadius.circular(12),
```



```
child: Padding(
              padding: const EdgeInsets.all(16.0),
                children: [
$surname"),
                  buildDetailRow("Address", address),
                  buildDetailRow("Email", email),
                  Divider(),
                  buildDetailRow("Phone", phone),
                  Divider(),
                  Divider(),
                  buildDetailRow("Rating", "$rating
Stars"),
                  buildDetailRow("Review", review),
      ),
 Widget buildDetailRow(String label, String value) {
    return Padding(
      padding: const EdgeInsets.only(bottom: 12.0),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
            "$label:",
            style: TextStyle(
              fontWeight: FontWeight.bold,
```



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```
value,
           style: TextStyle(fontSize: 16),
   );
review form screen.dart
import 'package:flutter/material.dart';
import '../widgets/rating widget.dart';
import '../widgets/submit button.dart';
import 'review display screen.dart';
import 'package:flutter/services.dart';
class ReviewFormScreen extends StatefulWidget {
 @override
ReviewFormScreenState();
class ReviewFormScreenState extends
State<ReviewFormScreen> {
  TextEditingController();
TextEditingController();
TextEditingController();
TextEditingController();
```

TextEditingController();

TextEditingController();



```
double rating = 5;
          builder: (context) => ReviewDisplayScreen(
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        backgroundColor: Colors.teal, // Customize your
app bar color
        padding: const EdgeInsets.all(16.0),
        child: Form(
          key: formKey,
          child: SingleChildScrollView(
            child: Column(
              children: [
"Name"),
"Surname"),
```



```
Address"),
                  "Email",
                  validator: (value) =>
                      value!.contains('@') ? null :
"Enter valid Email",
                  validator: (value) =>
valid Phone Number",
                  inputFormatters:
[FilteringTextInputFormatter.digitsOnly],
                  onRatingUpdate: (rating) {
                    });
'Review"),
                SizedBox(height: 20),
                SubmitButton(onPressed: submitForm),
          ),
      ),
controller, String label,
      List<TextInputFormatter>? inputFormatters}) {
```



```
return Card(
      elevation: 8,
      shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(12),
     margin: EdgeInsets.symmetric(vertical: 8),
       padding: const EdgeInsets.all(16.0),
       child: TextFormField(
         controller: controller,
            labelText: label,
            border: OutlineInputBorder(
              borderRadius: BorderRadius.circular(12),
          validator:
              validator ?? (value) => value!.isEmpty ?
'Enter $label" : null,
         inputFormatters: inputFormatters, // Apply
inputFormatters
    return Card(
     elevation: 8,
      shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(12),
     margin: EdgeInsets.symmetric(vertical: 8),
      child: Padding(
        padding: const EdgeInsets.all(16.0),
        child: DropdownButtonFormField<String>(
            labelText: "Gender",
           border: OutlineInputBorder(
              borderRadius: BorderRadius.circular(12),
```



```
items: ["Male", "Female", "Other"]
child: Text(e)))
            });
          validator: (value) => value == null ? "Select
Gender" : null,
input field.dart
import 'package:flutter/material.dart';
class InputField extends StatelessWidget {
  final String label;
  final String? Function(String?) validator;
  final bool readOnly;
    required this.controller,
    required this.label,
    required this.validator,
  @override
    return Card(
      margin: EdgeInsets.symmetric(vertical: 8),
      shape: RoundedRectangleBorder(
```



```
borderRadius: BorderRadius.circular(12),
        padding: const EdgeInsets.all(16.0),
        child: TextFormField(
          controller: controller,
            labelText: label,
            labelStyle: TextStyle(
              color: Colors.teal, // Custom label color
              fontWeight: FontWeight.bold,
            suffixIcon: suffixIcon,
              borderRadius: BorderRadius.circular(12),
              borderSide: BorderSide(color: Colors.teal),
            focusedBorder: OutlineInputBorder(
              borderRadius: BorderRadius.circular(12),
width: 2),
            errorStyle: TextStyle(
      ),
rating widget.dart
import 'package:flutter/material.dart';
import
  final double rating;
```



```
final Function (double) onRatingUpdate;
  RatingWidget({required this.rating, required
this.onRatingUpdate});
  @override
    return Card(
      elevation: 8,
      margin: EdgeInsets.symmetric(vertical: 8),
      shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.circular(12),
      ),
      child: Padding(
        padding: const EdgeInsets.all(16.0),
        child: Column(
          children: [
${rating.toStringAsFixed(1)}",
              style: TextStyle(
                fontWeight: FontWeight.bold,
                color: Colors.teal,
            SizedBox(height: 12),
            RatingBar.builder(
              direction: Axis.horizontal,
              allowHalfRating: true,
              itemPadding:
EdgeInsets.symmetric(horizontal: 4.0),
                color: Colors.amber,
              onRatingUpdate: onRatingUpdate,
```



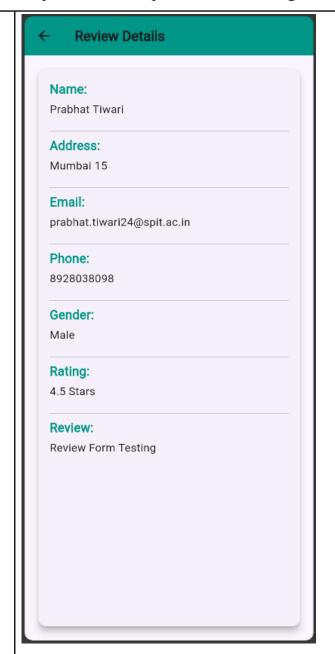
```
);
submit_button.dart
import 'package:flutter/material.dart';
class SubmitButton extends StatelessWidget {
  final VoidCallback onPressed;
  SubmitButton({required this.onPressed});
  @override
    return ElevatedButton(
      onPressed: onPressed,
      style: ElevatedButton.styleFrom(
        foregroundColor: Colors.white,
        padding: EdgeInsets.symmetric(vertical: 16.0,
horizontal: 32.0),
        shape: RoundedRectangleBorder(
          borderRadius: BorderRadius.circular(12),
        elevation: 5, // Slight elevation
      child: Text(
        style: TextStyle(
```



Screenshots	Movie Review Form	
	Name	
	Surname	
	Address	
	Email	
	Phone Number	
	Gender ▼	
	Your Rating: 5.0 ★ ★ ★ ★	
	Review	



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Question and Answers

1. How to create snackbar? Which component of flutter it belongs to?

Ans: A Snackbar is a brief message that appears at the bottom of the screen, typically for notifications like success or failure. It belongs to the ScaffoldMessenger component in Flutter. You create a Snackbar by using the showSnackBar method from the ScaffoldMessenger widget, which is responsible for displaying it on the screen for a short period.

2. How to give validation to any field in flutter?

Ans: To validate a field in Flutter, you use the TextFormField widget within a Form and define a validator function. The validator checks whether the input meets specific conditions, like being non-empty or matching a pattern. You can trigger the validation by calling validate() on the form's GlobalKey<FormState>.

3. How to navigate from one page to another?



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Ans: Navigation in Flutter is handled using the Navigator widget. You can push new routes onto the stack with Navigator.push() and remove the current route with Navigator.pop(). This allows you to transition between pages, either with material page routes or custom routes. 4. How are values of variables fetched in flutter? **Ans**: In Flutter, variable values are fetched through different methods like controllers or state management solutions. For text fields, you use controllers (like TextEditingController) to retrieve the entered value. For asynchronous data, you fetch values using FutureBuilder or StreamBuilder to update the UI once data is loaded. Conclusion Dynamic web page for submitting a movie review allows users to enter their details, including personal information, review, and ratings. The form includes validation to ensure correct data input, while Snackbar and AlertDialog are used for user feedback and notifications. Upon submission, the entered data is displayed on the next page, offering a smooth user experience with a fan button for added interactivity. This provides a professional, user-friendly interface for reviewing movies.