

Ex.No: 5

Develop a movie rating application (similar to IMDB)

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Aim: To develop a simple movie rating application using the Flutter framework.

Algorithm:

1. Create a new Flutter project.
2. Create a Movie class with properties for title and YouTube URL.
3. Develop a stateless widget MovieListScreen where a list of movie objects is defined within its build method.
4. Utilize ListView.builder in MovieListScreen to display movies with titles and thumbnails from YouTube.
5. Create a stateful widget `MovieDetailsScreen` with state variables for rating and review.
6. Implement star icons for users to rate movies and update the rating state accordingly.
7. Implement a submit button to process rating and review.

Program:

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

```
void main() {  
  runApp(MovieRatingApp());  
}
```

```
class MovieRatingApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'Movie Rating App',  
      theme: ThemeData(  
        primarySwatch: Colors.blue,  
      ),  
      home: MovieListScreen(),  
    );  
  }  
}
```

```
class MovieListScreen extends StatelessWidget {  
  final List<Movie> movies = [
```

```
Movie('Over The Moon', 'P_zuK_pergw'),  
Movie('Rise of The Guardians', 'xIT5lBeoCI8'),  
Movie('Moana', '5B7KClxNhx0'),  
Movie('Frozen', 'WKaIjiGrpfY'),  
Movie('Tangled', 'UVxQTCSSSqE'),  
];
```

```
@override
```

```
Widget build(BuildContext context) {  
  return Scaffold(  
    appBar: AppBar(  
      title: Text('Movie Ratings'),  
    ),  
    body: Center(  
      child: ListView.builder(  
        itemCount: movies.length,  
        itemBuilder: (context, index) {  
          final movie = movies[index];  
          return Padding(  
            padding: const EdgeInsets.symmetric(vertical: 8.0),  
            child: ListTile(  
              title: Text(movie.title),  
              leading: Image.network(  
                https://img.youtube.com/vi/\${movie.youtubeUrl}/hqdefault.jpg,  
              ),  
              onTap: () {  
                Navigator.push(  
                  context,  
                  MaterialPageRoute(  
                    builder: (context) => MovieDetailsScreen(movie: movie),  
                  ),  
                );  
              },  
            ),  
          );  
        },  
      ),  
    );  
  },  
);  
}
```

```
}
```

```
class MovieDetailsScreen extends StatefulWidget {  
  final Movie movie;
```

```
  MovieDetailsScreen({required this.movie});
```

```
  @override
```

```
  _MovieDetailsScreenState createState() => _MovieDetailsScreenState();
```

```
}
```

```
class _MovieDetailsScreenState extends State<MovieDetailsScreen> {
```

```
  int rating = 0;
```

```
  String review = "";
```

```
  @override
```

```
  Widget build(BuildContext context) {
```

```
    return Scaffold(  
      appBar: AppBar(  
        title: Text(widget.movie.title),  
      ),  
      body: Padding(  
        padding: const EdgeInsets.all(16.0),  
        child: Column(  
          children: [  
            Image.network(  
              https://img.youtube.com/vi/\${widget.movie.youtubeUrl}/hqdefault.jpg,  
            ),  
            SizedBox(height: 16.0),  
            Row(  
              mainAxisAlignment: MainAxisAlignment.center,  
              children: [  
                Text('Rate this movie: '),  
                IconButton(  
                  icon: Icon(Icons.star),  
                  color: rating >= 1 ? Colors.yellow : Colors.grey,  
                  onPressed: () {  
                    setState(() {  
                      rating = 1;  
                    });  
                });  
              ],  
            ),  
          ],  
        ),  
      ),  
    );  
  }
```

```

    },
  ),
  IconButton(
    icon: Icon(Icons.star),
    color: rating >= 2 ? Colors.yellow : Colors.grey,
    onPressed: () {
      setState(() {
        rating = 2;
      });
    },
  ),
  IconButton(
    icon: Icon(Icons.star),
    color: rating >= 3 ? Colors.yellow : Colors.grey,
    onPressed: () {
      setState(() {
        rating = 3;
      });
    },
  ),
  IconButton(
    icon: Icon(Icons.star),
    color: rating >= 4 ? Colors.yellow : Colors.grey,
    onPressed: () {
      setState(() {
        rating = 4;
      });
    },
  ),
  IconButton(
    icon: Icon(Icons.star),
    color: rating >= 5 ? Colors.yellow : Colors.grey,
    onPressed: () {
      setState(() {
        rating = 5;
      });
    },
  ),
],
),

```

```

        SizedBox(height: 16.0),
        TextField(
          onChanged: (value) {
            setState(() {
              review = value;
            });
          },
          decoration: InputDecoration(
            labelText: 'Write a review',
            border: OutlineInputBorder(),
          ),
        ),
        SizedBox(height: 16.0),
        ElevatedButton(
          onPressed: () {
            // Perform any action on submitting the review
            print('Rating: $rating');
            print('Review: $review');
          },
          child: Text('Submit'),
        ),
      ],
    ),
  );
}
}

```

```

class Movie {
  final String title;
  final String youtubeUrl;

  Movie(this.title, this.youtubeUrl);
}

```

Conclusion:

Thus to develop a simple movie rating application using the Flutter framework is developed successfully.

Output:



