



Faculty of Technology and Engineering

Chandubhai S. Patel Institute of Technology Department of Computer Science & Engineering

Date:	/	1
Date:	/	

Laboratory Manual Performa

Academic Year	:	2024-25	Semester	:	5 TH
Course code	:	CSE309	Course name	:	Mobile Application and Development

Practical - 2

Create an Application that shows a List of 10 countries and Flag using List View Builder.

Introduction of relevant concepts used:

- Container Widget: A widget in Flutter used to create a rectangular visual element with specified width, height, padding, and margins.
- **SvgPicture.network**: A widget from the flutter_svg package that loads and displays SVG images from a network URL with customizable size and fit properties.

```
main.dart
import 'package:flutter/material.dart';
import 'package:flutter_svg/flutter_svg.dart';
void main() {
runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return MaterialApp(
   title: 'Countries and Flags',
   theme: ThemeData(
   primarySwatch: Colors.blue,
   home: CountriesList(),
  );
class CountriesList extends StatelessWidget {
final List<Map<String, String>> countries = [
      {'name': 'United States', 'flag':
      'https://upload.wikimedia.org/wikipedia/en/a/a4/Flag_of_the_United_States.svg'},
```

```
{'name': 'Canada', 'flag': 'https://upload.wikimedia.org/wikipedia/en/c/cf/Flag of Canada.svg'},
 {'name': 'United Kingdom', 'flag':
 'https://upload.wikimedia.org/wikipedia/en/a/ae/Flag of the United Kingdom.svg'},
 {'name': 'Germany', 'flag':
 'https://upload.wikimedia.org/wikipedia/en/b/ba/Flag of Germany.svg'},
 {'name': 'France', 'flag': 'https://upload.wikimedia.org/wikipedia/en/c/c3/Flag_of_France.svg'},
 {'name': 'Japan', 'flag': 'https://upload.wikimedia.org/wikipedia/en/9/9e/Flag of Japan.svg'},
 {'name': 'Australia', 'flag':
 'https://upload.wikimedia.org/wikipedia/en/b/b9/Flag of Australia.svg'},
 {'name': 'India', 'flag': 'https://upload.wikimedia.org/wikipedia/en/4/41/Flag_of_India.svg'},
 {'name': 'Brazil', 'flag': 'https://upload.wikimedia.org/wikipedia/en/0/05/Flag of Brazil.svg'},
 {'name': 'South Korea', 'flag':
 'https://upload.wikimedia.org/wikipedia/commons/0/09/Flag of South Korea.svg'},
];
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   title: Text('Countries and Flags'),
  body: ListView.builder(
   itemCount: countries.length.
   itemBuilder: (context, index) {
   return ListTile(
     leading: Container(
      width: 50.
      height: 50,
      child: SvgPicture.network(
       countries[index]['flag']!,
       width: 50.
       height: 50,
       fit: BoxFit.contain.
       placeholderBuilder: (context) => CircularProgressIndicator(),
       // errorBuilder: (context, error, stackTrace) => Icon(Icons.error),
      ),
     title: Text(countries[index]['name']!),
```

Output (Screenshot)



Grade/Marks (____/ 10) **Sign of Lab Teacher with Date**