



Faculty of Technology and Engineering

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

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:

Code (Screenshot)

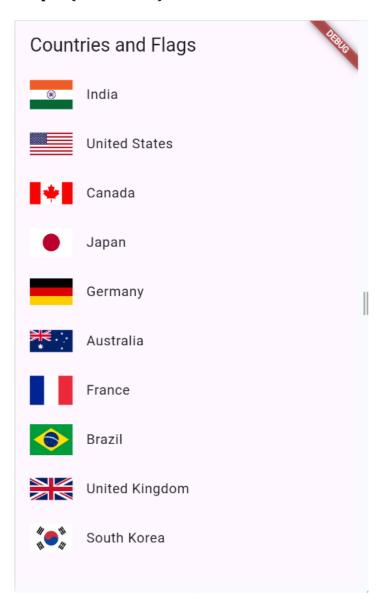
Main.dart

```
lib > ♠ main.dart > ધ CountryListScreen > ♦ build
       import 'package:flutter/material.dart';
       Run | Debug | Profile
void main() {
          runApp(const MyApp());
        class MyApp extends StatelessWidget {
         const MyApp({Key? key}) : super(key: key);
         Widget build(BuildContext context) {
           return MaterialApp(
            title: 'Country List',
theme: ThemeData(
               primarySwatch: ■ const Color fromARGB(255, 0, 34, 62), // ThemeData
 15
               home: const CountryListScreen(),
            ); // MaterialApp
 19
        class CountryListScreen extends StatelessWidget {
          const CountryListScreen({Key? key}) : super(key: key);
          Widget build(BuildContext context) {

// List of countries and their flags using flagcdn.com
            final List<Map<String, String>> countries = [
                  'name': 'India',
                  'flagUrl': '<a href="https://flagcdn.com/w320/in.png">https://flagcdn.com/w320/in.png</a>',
              'name': 'United States',
'flagUrl': 'https://flagcdn.com/w320/us.png',
              {
  'name': 'Canada',
  'flagUrl': 'https://flagcdn.com/w320/ca.png',
              //
(
   'name': 'Japan',
   'flagUrl': 'https://flagcdn.com/w320/jp.png',
```

```
TEASOLE . HECKS://ITAGEOUT.COM/MOZO/JP.PUB )
  44
   45
                 'name': 'Germany',
   46
   47
                 'flagUrl': 'https://flagcdn.com/w320/de.png',
  48
  49
   50
                 'name': 'Australia',
                 'flagUrl': 'https://flagcdn.com/w320/au.png',
   51
   52
   53
   54
                 'name': 'France',
  55
                 'flagUrl': 'https://flagcdn.com/w320/fr.png',
  56
  57
                 'name': 'Brazil',
  58
                 'flagUrl': 'https://flagcdn.com/w320/br.png',
  59
  60
  61
                 'name': 'United Kingdom',
  62
                 'flagUrl': '<a href="https://flagcdn.com/w320/gb.png"">https://flagcdn.com/w320/gb.png</a>
  63
  64
  65
                 'name': 'South Korea',
  66
                 'flagUrl': 'https://flagcdn.com/w320/kr.png',
  67
  68
              },
  69
             ];
  70
  71
             return Scaffold(
  72
              appBar: AppBar(
  73
               title: const Text('Countries and Flags'),
   74
               ), // AppBar
   75
              body: ListView.builder(
   76
               itemCount: countries.length,
   77
                 itemBuilder: (context, index) {
   78
              final country = countries[index];
  71
           return Scaffold(
  72
             appBar: AppBar(
  73
             title: const Text('Countries and Flags'),
  74
             ), // AppBar
  75
             body: ListView.builder(
  76
             itemCount: countries.length,
  77
              itemBuilder: (context, index) {
  78
                final country = countries[index];
  79
                return ListTile(
  80
                 leading: Image.network(
                   country['flagUrl']!,
  81
  82
                   width: 50,
  83
                   height: 50,
  84
                   errorBuilder: (context, error, stackTrace) {
9 85
                     return const Icon(Icons.error, color: ■Colors.red);
  86
                   },
  87
                  ), // Image.network
  88
                  title: Text(country['name']!),
               ); // ListTile
  89
  90
             },
             ), // ListView.builder
  91
             backgroundColor: □Colors.white,
  92
           ); // Scaffold
  93
  94
  95
  96
```

Output (Screenshot)



Grade/Marks (_____/ 10)

Sign of Lab Teacher with Date