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1 // PRACTICAL-9: Develop a flutter app to retrieve product name from a Web API using "http" package and display
  in ListView.
2
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7 // CODE:
8
9 import 'package:flutter/material.dart';
10 import 'package:http/http.dart' as http;
11 import 'dart:convert';
12
13 void main() {
14   runApp(const MyApp());
15 }
16 class MyApp extends StatelessWidget {
17   const MyApp({super.key});
18   @override
19   Widget build(BuildContext context) {
20     return const MaterialApp(
21       home: ProductListApp(),
22       debugShowCheckedModeBanner: false,
23     );
24   }
25 }
26 class ProductListApp extends StatefulWidget {
27   const ProductListApp({super.key});
28   @override
29   _ProductListAppState createState() => _ProductListAppState();
30 }
31 class _ProductListAppState extends State<ProductListApp> {
32   List<String> _productNames = [];
33   bool _isLoading = true;
34   @override
35   void initState() {
36     super.initState();
37     _fetchProductNames();
38   }
39   _fetchProductNames() async {
40     final response = await http.get(Uri.parse('https://api.escuelajs.co/api/v1/products'));
41     if (response.statusCode == 200) {
42       final List<dynamic> products = json.decode(response.body);
43       setState(() {
44         _productNames = products.map((product) => product['title'] as String).toList();
45         _isLoading = false;
46       });
47     } else {
48       throw Exception('Failed to load product names');
49     }
50   }
51   @override
52   Widget build(BuildContext context) {
53     return Scaffold(
54       appBar: AppBar(
55         title: const Text('PRACTICAL 9'),
56       ),
57       body: Column(
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58 children: [
59   Expanded(
60     child: _isLoading
61       ? const Center(child: CircularProgressIndicator())
62       : ListView.builder(
63         padding: const EdgeInsets.all(10),
64         itemCount: _productNames.length,
65         itemBuilder: (context, index) {
66           return Card(
67             margin: const EdgeInsets.symmetric(vertical: 14, horizontal: 5),
68             elevation: 4,
69             shape: RoundedRectangleBorder(
70               borderRadius: BorderRadius.circular(15),
71             ),
72             child: ListTile(
73               contentPadding: const EdgeInsets.all(10),
74               title: Text(
75                 _productNames[index],
76                 style: const TextStyle(
77                   fontSize: 16,
78                   fontWeight: FontWeight.bold,
79                 ),
80               ),
81               trailing: const Icon(Icons.chevron_right, color: Colors.grey),
82             ),
83           );
84         },
85       ),
86     ),
87     Padding(
88       padding: const EdgeInsets.all(16.0),
89       child: const Text(
90         '202203103510097',
91         style: TextStyle(
92           fontSize: 14,
93           color: Colors.grey, // Set the text color to grey
94         ),
95       textAlign: TextAlign.center,
96     ),
97   ),
98 ],
99 ),
100 );
101 }
102 }

```