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1 // PRACTICAL-10: Develop a flutter app to retrieve selected student name and image from a Web API using
  // "Chopper" package and display on screen.
2
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6
7 // CODE:
8
9 import 'package:flutter/material.dart';
10 import 'package:chopper/chopper.dart';
11 import 'student_api.dart';
12 void main() {
13   runApp(const MyApp());
14 }
15 class MyApp extends StatelessWidget {
16   const MyApp({super.key});
17   @override
18   Widget build(BuildContext context) {
19     return MaterialApp(
20       title: 'Students',
21       theme: ThemeData(
22         primarySwatch: Colors.blue,
23       ),
24       home: const StudentListPage(),
25       debugShowCheckedModeBanner: false,
26     );
27   }
28 }
29 class StudentListPage extends StatefulWidget {
30   const StudentListPage({super.key});
31   @override
32   _StudentListPageState createState() => _StudentListPageState();
33 }
34 class _StudentListPageState extends State<StudentListPage> {
35   late StudentApi api;
36   List<dynamic> students = [];
37   bool isLoading = true;
38   @override
39   void initState() {
40     super.initState();
41     api = StudentApi.create();
42     fetchStudents();
43   }
44   Future<void> fetchStudents() async {
45     final response = await api.getStudents();
46     if (response.isSuccessful) {
47       setState(() {
48         students = response.body as List;
49         isLoading = false;
50       });
51     } else {
52       setState(() {
53         isLoading = false;
54       });
55     }
56   }
57   @override
58   Widget build(BuildContext context) {
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58 return Scaffold(
59   appBar: AppBar(
60     title: const Text('PRACTICAL 10'),
61   ),
62   body: Column(
63     children: [
64       Expanded(
65         child: isLoading
66           ? const Center(child: CircularProgressIndicator())
67           : ListView.builder(
68             itemCount: students.length,
69             itemBuilder: (context, index) {
70               final student = students[index];
71               return Card(
72                 margin: const EdgeInsets.all(8.0),
73                 child: ListTile(
74                   leading: CircleAvatar(
75                     backgroundImage: NetworkImage(
76                       'https://i.pravatar.cc/150?img=${student['id']}'),
77                   ),
78                   title: Text(student['name']),
79                 ),
80               );
81             },
82           ),
83       ), Padding(
84         padding: const EdgeInsets.all(16.0),
85         child: const Text(
86           '202203103510097',
87           style: TextStyle(
88             fontSize: 14,
89             color: Colors.grey, // Set the text color to grey
90           ),
91           textAlign: TextAlign.center,
92         ),
93       ),
94     ],
95   ),
96 );
97 }
98 }
99
100 // student_api.dart
101 import 'package:chopper/chopper.dart';
102 part 'student_api.chopper.dart';
103 @ChopperApi()
104 abstract class StudentApi extends ChopperService {
105   static StudentApi create([ChopperClient? client]) {
106     if (client != null) return _$StudentApi(client);
107     final newClient = ChopperClient(
108       baseUrl: 'https://jsonplaceholder.typicode.com',
109       services: [_$StudentApi()],
110       converter: JsonConverter(),
111     ); return _$StudentApi(newClient);
112   }
113   @Get(path: '/users')
114   Future<Response> getStudents();
115 }

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