01/07/2024, 18:42 login.dart

MobileApp/lib/screens/login.dart

```
1 import 'package:flutter/material.dart';
   import 'package:project_9/services/api.dart';
   import 'package:project_9/services/account_status.dart';
 3
 4
 5
   class LoginPage extends StatefulWidget {
 6
      final String email;
 7
      final String nome;
 8
      final Function() onLogout;
 9
      LoginPage({required this.email, required this.nome, required this.onLogout});
10
11
12
      @override
     _LoginPageState createState() => _LoginPageState();
13
14
   }
15
   class _LoginPageState extends State<LoginPage> {
16
17
     @override
18
     Widget build(BuildContext context) {
        return Scaffold(
19
20
          appBar: AppBar(
            backgroundColor: Colors.white,
21
22
            elevation: 0,
23
            centerTitle: true,
24
            actions: [
25
              IconButton(
                icon: Icon(Icons.logout, color: Colors.black),
26
                onPressed: widget.onLogout,
27
28
              ),
29
            ],
          ),
30
          body: Center(
31
32
            child: Padding(
33
              padding: const EdgeInsets.all(20.0),
34
              child: Column(
35
                mainAxisAlignment: MainAxisAlignment.center,
36
                children: [
37
                  Text(
38
                    'Bem-vindo, ${widget.nome}',
39
                    style: TextStyle(fontSize: 24),
40
                  ),
41
                  SizedBox(height: 20),
42
                  ElevatedButton(
                    onPressed: () {
43
44
                      Navigator.push(
45
                        context,
                        MaterialPageRoute(builder: (context) => AccountStatus(email:
46
   widget.email)),
47
                      );
                    },
48
49
                    style: ElevatedButton.styleFrom(
                      foregroundColor: Colors.white, backgroundColor: Colors.blueAccent,
50
51
                      padding: EdgeInsets.symmetric(horizontal: 32, vertical: 12),
```

01/07/2024, 18:42 52 shape: RoundedRectangleBorder(53 borderRadius: BorderRadius.circular(8), 54),), 55 child: Text(56 'Avançar', 57 58 style: TextStyle(59 fontSize: 18, fontWeight: FontWeight.bold, 60 61), 62),), 63 64], 65),), 66), 67 68); 69 } } 70 71 class AuthenticationScreen extends StatefulWidget { 72 73 AuthenticationScreen({Key? key}) : super(key: key); 74 75 @override 76 _AuthenticationScreenState createState() => _AuthenticationScreenState(); } 77 78 79 class AuthenticationScreenState extends State<AuthenticationScreen> { String? _loggedInEmail; 80 81 82 @override Widget build(BuildContext context) { 83 84 if (loggedInEmail != null) { 85 return FutureBuilder(future: API.fetchUserInfo(_loggedInEmail!), 86 87 builder: (context, snapshot) { if (snapshot.connectionState == ConnectionState.waiting) { 88 return Center(child: CircularProgressIndicator()); 89 90 } else if (snapshot.hasError) { return Center(child: Text('Erro: \${snapshot.error}')); 91 92 } else { 93 var responseData = snapshot.data as Map<String, dynamic>; var userInfo = responseData['data'] as Map<String, dynamic>; 94 95 return LoginPage(email: _loggedInEmail!, 96 97 nome: userInfo['username'] ?? '', onLogout: () { 98 99 setState(() {

_loggedInEmail = null;

}

});

},
);

100

101102

103104

105

```
106
           );
107
         } else {
108
           return Scaffold(
             body: Container(
109
               decoration: BoxDecoration(
110
                 color: Color.fromRGBO(50, 116, 159, 1),
111
112
               ),
113
               child: Center(
114
                 child: Container(
115
                   margin: EdgeInsets.symmetric(horizontal: 20.0),
116
                   padding: EdgeInsets.all(20.0),
117
                   decoration: BoxDecoration(
118
                     color: Colors.white,
                     borderRadius: BorderRadius.circular(20.0),
119
120
                     boxShadow: [
                        BoxShadow(
121
122
                          color: Colors.black.withOpacity(0.2),
123
                          spreadRadius: 5,
124
                          blurRadius: 7,
125
                          offset: Offset(0, 3),
126
                       ),
                     ],
127
128
                   ),
129
                   child: Column(
130
                     mainAxisSize: MainAxisSize.min,
131
                     children: [
132
                        SizedBox(height: 20),
133
                        AuthenticationTabs(onLogin: (email) {
134
                          setState(() {
                            _loggedInEmail = email;
135
136
                          });
137
                       }),
138
                     ],
139
                   ),
                 ),
140
141
               ),
142
             ),
143
           );
         }
144
145
       }
146
    }
147
148
    class AuthenticationTabs extends StatefulWidget {
149
       final Function(String) onLogin;
150
151
       AuthenticationTabs({Key? key, required this.onLogin}) : super(key: key);
152
153
       @override
154
       AuthenticationTabsState createState() => AuthenticationTabsState();
    }
155
156
157
    class AuthenticationTabsState extends State<AuthenticationTabs> {
158
       bool _isLogin = true;
159
       TextEditingController _emailController = TextEditingController();
```

01/07/2024, 18:42

01/07/2024, 18:42 login.dart

```
TextEditingController _passwordController = TextEditingController();
160
161
      TextEditingController _nameController = TextEditingController();
162
       String? errorMessage;
163
       void toggleTab() {
164
         setState(() {
165
           _isLogin = !_isLogin;
166
167
           if (_isLogin) {
             nameController.clear();
168
           } else {
169
             _emailController.clear();
170
             _passwordController.clear();
171
172
173
           _errorMessage = null;
174
         });
       }
175
176
177
       void submitLoginForm() async {
         String email = _emailController.text;
178
         String password = _passwordController.text;
179
180
         trv {
181
           String apiResult = await API.fetchSubmitLoginForm(email, password);
182
           if (apiResult == 'Login bem-sucedido!') {
183
             widget.onLogin(email);
184
             // ignore: use_build_context_synchronously
             Navigator.push(context, MaterialPageRoute(builder: (context) =>
185
    AccountStatus(email: email)));
186
           } else {
187
             setState(() {
188
               _errorMessage = apiResult;
189
             });
           }
190
         } catch (e) {
191
192
           print('Erro!');
193
         }
194
       }
195
196
       void submitRegisterForm() async {
197
         String username = _nameController.text;
         String email = _emailController.text;
198
199
         String password = _passwordController.text;
200
         try {
201
           String apiResult = await API.fetchRegisterForm(username, email, password);
           if (apiResult == 'Utilizador registado com sucesso!') {
202
203
             // ignore: use_build_context_synchronously
             Navigator.push(context, MaterialPageRoute(builder: (context) =>
204
    AccountStatus(email: email)));
205
           } else {
206
             setState(() {
207
               _errorMessage = apiResult;
             });
208
209
           }
210
         } catch (e) {
           print('Erro!');
211
```

```
212
         }
213
       }
214
215
      @override
216
      Widget build(BuildContext context) {
217
         return Column(
           children: [
218
219
             Container(
220
               margin: EdgeInsets.only(bottom: 20),
221
               height: 100,
               decoration: BoxDecoration(
222
223
                 shape: BoxShape.circle.
                 image: DecorationImage(
224
225
                   image: AssetImage('assets/images/profile.jpg'),
226
                 ),
227
               ),
228
             ),
229
             _isLogin
230
                 ? LoginForm(
231
                     emailController: _emailController,
                     passwordController: _passwordController,
232
233
                     onSubmit: submitLoginForm,
234
                   )
235
                 : RegisterForm(
236
                     nameController: _nameController,
                     emailController: _emailController,
237
238
                     passwordController: passwordController,
239
                     onSubmit: submitRegisterForm,
240
                   ),
241
             SizedBox(height: 10),
242
             if (_errorMessage != null)
243
               Text(
244
                 _errorMessage!,
245
                 style: TextStyle(color: Colors.red),
246
               ),
247
             SizedBox(height: 10),
248
             TextButton(
249
               onPressed: toggleTab,
250
               child: Text(
251
                 _isLogin ? 'Criar uma conta' : 'Já tem uma conta? Entrar',
252
                 style: TextStyle(color: Colors.blueAccent),
253
               ),
254
             ),
255
           ],
256
         );
257
       }
258
259
260
    class LoginForm extends StatelessWidget {
261
       final TextEditingController emailController;
262
       final TextEditingController passwordController;
       final VoidCallback onSubmit;
263
264
265
       LoginForm({
```

01/07/2024, 18:42

```
required this.emailController,
266
267
         required this.passwordController,
         required this.onSubmit,
268
269
       });
270
      @override
271
       Widget build(BuildContext context) {
272
273
         return Column(
274
           children: [
275
             TextField(
276
               controller: emailController,
277
               decoration: InputDecoration(
                 hintText: 'Email',
278
                 border: OutlineInputBorder(
279
280
                   borderRadius: BorderRadius.circular(12),
281
                   borderSide: BorderSide(color: Colors.grey),
282
283
                 contentPadding: EdgeInsets.symmetric(horizontal: 16),
284
               ),
285
             ),
286
             SizedBox(height: 10),
287
             TextField(
288
               controller: passwordController,
289
               obscureText: true,
               decoration: InputDecoration(
290
291
                 hintText: 'Password',
                 border: OutlineInputBorder(
292
293
                   borderRadius: BorderRadius.circular(12),
294
                   borderSide: BorderSide(color: Colors.grey),
295
                 ),
296
                 contentPadding: EdgeInsets.symmetric(horizontal: 16),
297
               ),
298
             ),
299
             SizedBox(height: 20),
300
             ElevatedButton(
301
               onPressed: onSubmit,
302
               style: ElevatedButton.styleFrom(
                 foregroundColor: Colors.white, backgroundColor: Colors.blueAccent,
303
304
                 padding: EdgeInsets.symmetric(horizontal: 32, vertical: 12),
                 shape: RoundedRectangleBorder(
305
306
                   borderRadius: BorderRadius.circular(8),
307
                 ),
308
               ),
309
               child: Text(
310
                 'Entrar',
                 style: TextStyle(
311
                   fontSize: 18,
312
313
                   fontWeight: FontWeight.bold,
314
                 ),
               ),
315
             ),
316
317
           ],
318
         );
319
```

```
01/07/2024, 18:42
320
     }
321
322
     class RegisterForm extends StatelessWidget {
323
       final TextEditingController nameController;
       final TextEditingController emailController;
324
       final TextEditingController passwordController;
325
       final VoidCallback onSubmit;
326
327
328
       RegisterForm({
329
         required this.nameController,
330
         required this.emailController,
         required this.passwordController,
331
         required this.onSubmit,
332
333
       });
334
335
       @override
       Widget build(BuildContext context) {
336
337
         return Column(
            children: [
338
339
              TextField(
                controller: nameController,
340
                decoration: InputDecoration(
341
                  hintText: 'Nome',
342
343
                  border: OutlineInputBorder(
344
                    borderRadius: BorderRadius.circular(12),
345
                    borderSide: BorderSide(color: Colors.grey),
346
                  ) .
                  contentPadding: EdgeInsets.symmetric(horizontal: 16),
347
348
                ),
349
              ),
              SizedBox(height: 10),
350
351
              TextField(
352
                controller: emailController,
353
                decoration: InputDecoration(
354
                  hintText: 'Email',
355
                  border: OutlineInputBorder(
356
                    borderRadius: BorderRadius.circular(12),
                    borderSide: BorderSide(color: Colors.grey),
357
358
                  ),
                  contentPadding: EdgeInsets.symmetric(horizontal: 16),
359
360
                ),
361
              ),
              SizedBox(height: 10),
362
              TextField(
363
                controller: passwordController,
364
365
                obscureText: true,
366
                decoration: InputDecoration(
367
                  hintText: 'Password',
368
                  border: OutlineInputBorder(
                    borderRadius: BorderRadius.circular(12),
369
370
                    borderSide: BorderSide(color: Colors.grey),
371
372
                  contentPadding: EdgeInsets.symmetric(horizontal: 16),
373
```

```
374
             ),
375
             SizedBox(height: 20),
376
             ElevatedButton(
377
               onPressed: onSubmit,
378
               style: ElevatedButton.styleFrom(
                 foregroundColor: Colors.white, backgroundColor: Colors.blueAccent,
379
380
                 padding: EdgeInsets.symmetric(horizontal: 32, vertical: 12),
381
                 shape: RoundedRectangleBorder(
382
                   borderRadius: BorderRadius.circular(8),
383
                 ),
384
               ),
               child: Text(
385
386
                 'Registar',
387
                 style: TextStyle(
388
                   fontSize: 18,
389
                   fontWeight: FontWeight.bold,
390
                 ),
               ),
391
             ),
392
393
           ],
394
         );
395
       }
396 }
```