



Desenvolvimento de Software para Dispositivos Móveis

Aula 19 - Flutter - REST

Professor: Anderson Almada



Exemplo prático

- Construir uma aplicação que utiliza de REST
 - GET
 - POST
 - PUT
 - DELETE
- Continuação da aplicação anterior

Usando o HTTP

- Adicione a dependência
- Para isso, altere o arquivo pubspec.yaml

```
dependencies:  
  flutter:  
    sdk: flutter  
  
shared_preferences: ^0.5.4+5  
http: ^0.12.0+2
```

GET ALL

```
var url = 'https://jsonplaceholder.typicode.com/users' ;
makeGetAll() async {
    final response = await get(url);
    if (response.statusCode == 200) {
        Iterable l = jsonDecode(response.body);
        List<User> users = l.map((i) => User.fromJson(i)).toList();
        for (var item in users) {
            print(item.username);
        }
    } else {
        throw Exception('Failed - get all');
    }
}
```

GET

```
makeGetId(int i) async {  
    final response = await get(url+"/$i");  
  
    if (response.statusCode == 200) {  
        var user = User.fromJson(jsonDecode(response.body));  
        print(user.username);  
    } else {  
        throw Exception('Failed - get');  
    }  
}
```

POST

```
makePost (User user) async {  
    final response = await post(url, body: user.toJson());  
  
    if (response.statusCode == 201) {  
        var user2 = User.fromJson(jsonDecode(response.body));  
        print(user2.username);  
    } else {  
        // If that response was not OK, throw an error.  
        throw Exception('Failed - post');  
    }  
}
```

PUT

```
makePut (int i, User user) async {  
    final response = await put (url+ "$i", body: user.toJson());  
  
    if (response.statusCode == 200) {  
        var user2 = User.fromJson (jsonDecode (response.body));  
        print (user2.username);  
    } else {  
        // If that response was not OK, throw an error.  
        throw Exception ('Failed - put');  
    }  
}
```

DELETE

```
makeDelete(int i) async {  
    final response = await delete(url+"/$i");  
  
    if (response.statusCode == 200) {  
        print("Deletado");  
    } else {  
        // If that response was not OK, throw an error.  
        throw Exception('Failed to load post');  
    }  
}
```


Para atualizar a lista

```
...  
List<User> users = l.map((i) => User.fromJson(i)).toList();  
  
setState(() {  
    widget.itens = users;  
});  
...
```

Links importantes

- <https://flutter.dev/>
- <https://pub.dev/packages/http>



Dúvidas??

E-mail: almada@crateus.ufc.br