

TDC INNOVATION

CHALLENGES FOR CREATING THE DIGITAL FUTURE

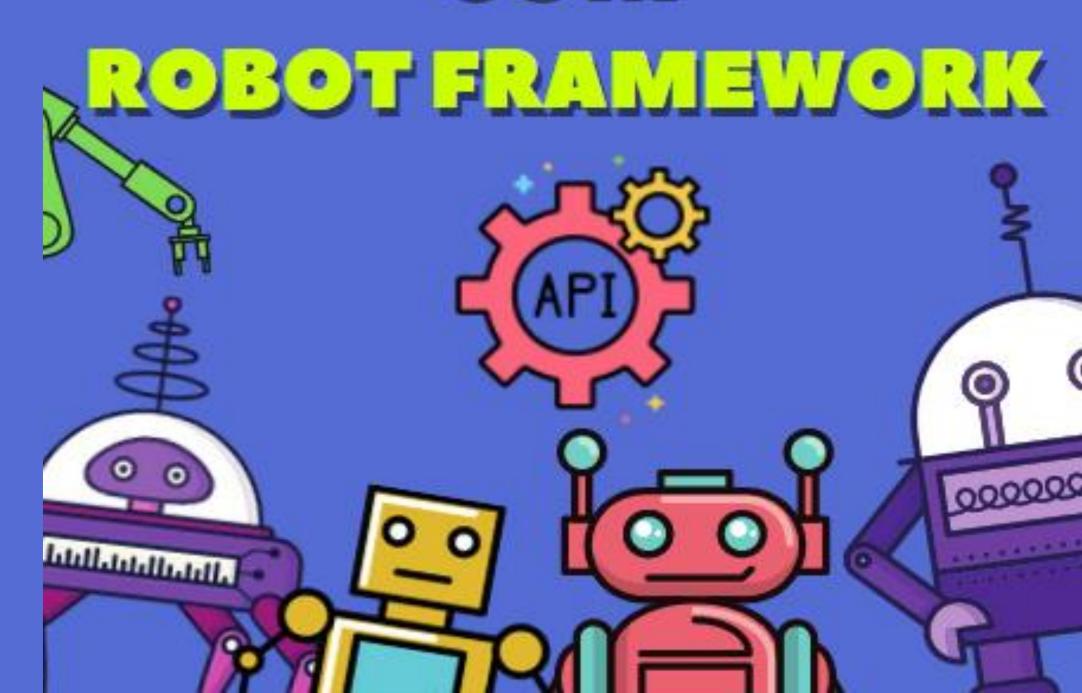
03 de junho - Florianópolis

AUTOMATIZANDO



APIS COM





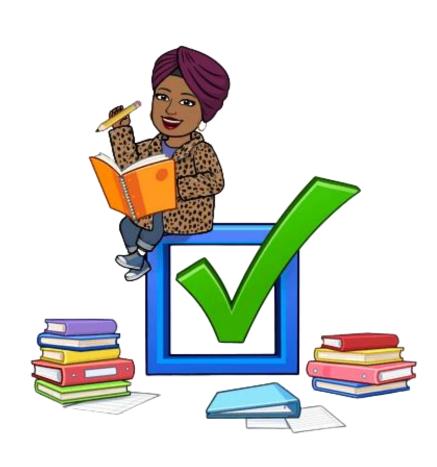
Quem son en?

Me chamo Danielle Cavalcanti, tenho 37 anos, QA por vocação e paixão, carioca, mãe da Malu Helena , Shuri Lee , Lolla Maria e Meg Louise . Apaixonada pela cultura ágil em especial Design Thinking, movida por desafios e em constante formação e evolução.





Perfil Profissional



Sou graduada em Análise e Desenvolvimento de Sistemas, certificada pela ISTQB (CTFL) e atualmente pós-graduanda em Engenharia de Software com Ênfase em Qualidade e Testes de Software.

Trabalho desde 2018 como QA, onde comecei como estagiária de Testes e de Apoio à Gerência de Projeto e após 5 meses como estagiária, fui contratada como Jr e, desde então, sigo crescendo dentro da área de QA.

No momento, sou QA Lead da WS Rocket QQA na Sensedia onde, além de atuar na Torre de Open Insurance, promovo mentoria e capacitação de novos QAs.



Por quê usar o Robot Framework?

REST-Assured

```
private val ENDPOINT: String = "/turismo"
@LocalServerPort
internal var port: Int = 0 -> porta aleatória da aplicação
@Test
fun `Dado que a operação seja um sucesso é retornado uma lista com todos os guias turísticos`() {
    val before = repository.findall()
    val after = given() -> serão usadas posteriormente

.port(port)
.log().all()
.`when ()
.get("$ENDPOINT/guias")
.then()
.log().all()
.statusCode(OK.value()) -> Status Code 200
}
```

Pytest

```
from wsgiref import headers
import requests
def test_status():
    headers = {
        'Accept': '*/*',
        'User-Agent': 'request',
    }
    url = "http://exemploapi.com"
    resp = requests.get(url,headers=headers)
    resp_dict = resp.json

status = resp_dict['status']

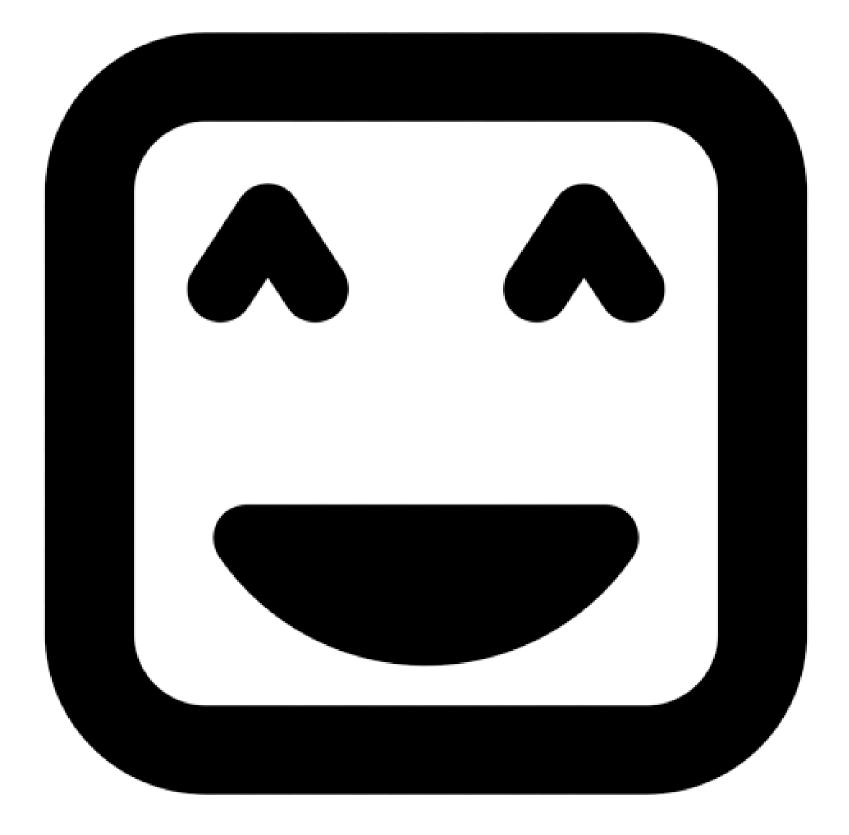
assert status == 'sucess'
```

Robot Framework

```
*** Keywords ***

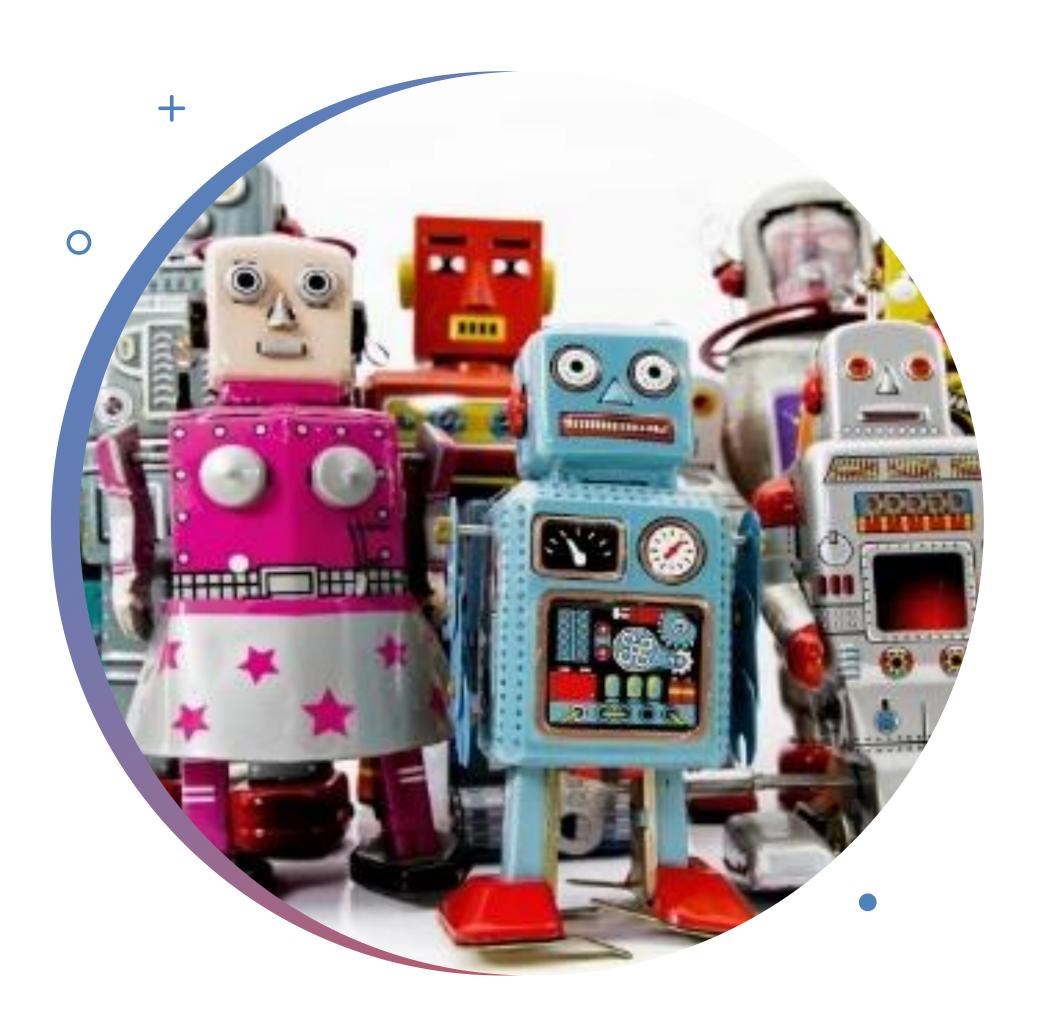
Conectar API

Create Session rocketqa-api <a href="http://localhost:1302">http://localhost:1302</a>
```



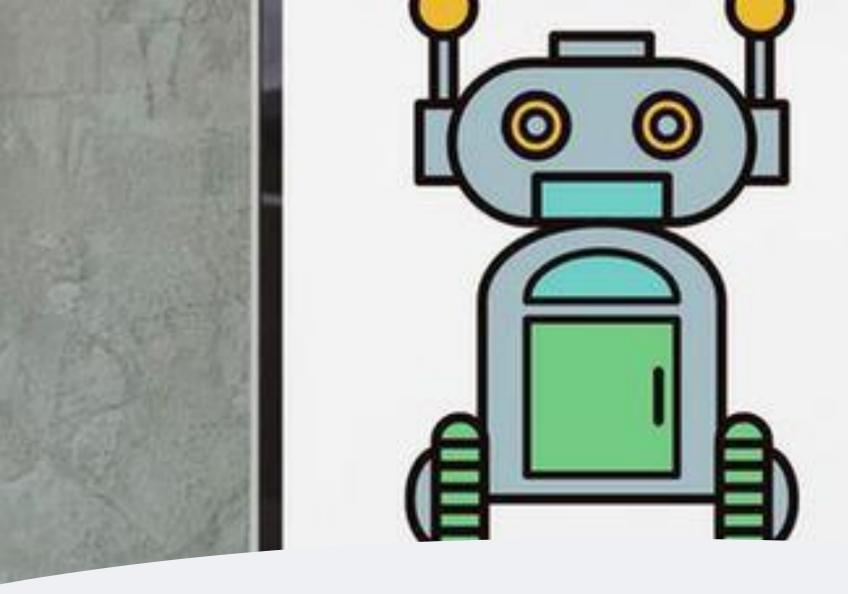
Robot Framework

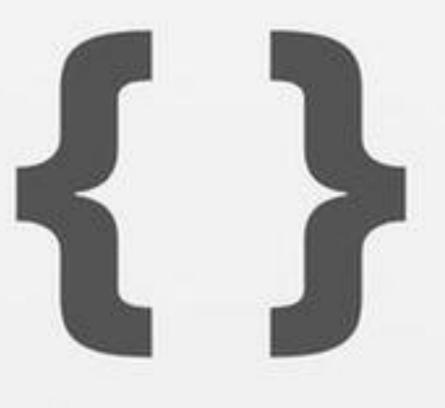
- ✓ O Robot Framework é uma estrutura para automação de testes de aceitação ATDD;
- ✓ Framework genérico que permite automação de qualquer tipo de sistema (web, API, mobile, desktop, etc);
- ✓ Baseado em keyword-driven;
- Estendido através de libraries implementadas em Python ou Java;
- Compatível com o Python 2 e 3;
- ✓ Compatível com Integração Contínua e Cross-browser;
- Multiplataforma (Windows, Linux, MAC e em containers Docker).

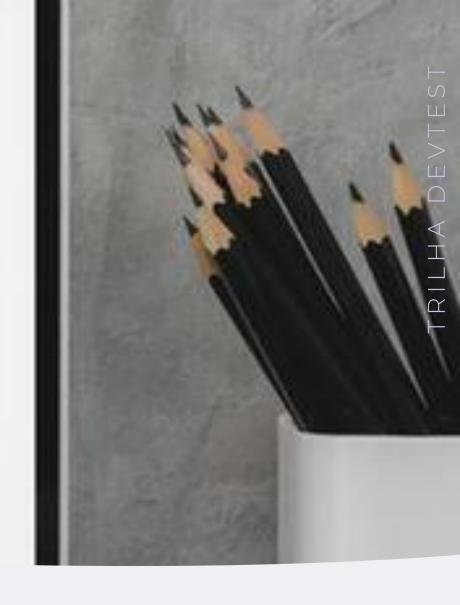


Keyword

- ✓ Ferramenta de automação que oferece um conjunto de palavras-chaves;
- ✓ Linguagem de alto nível (linguagem nativa) que representa a ação do usuário);
- ✓ Podem ser escritas de forma Procedural ou em BDD (Gerkin), dispensando frameworks auxiliares (Cucumber, SpecFlow, Behave, etc).







Keywords usadas no projeto

- Create Dictionary
- Convert To String
- Set Variable
- Evaluate
- Set To Dictionary
- Get File

- Create Session
- POST On Session
- GET On Session
- PUT On Session
- **DELETE On Session**
- Status Should Be

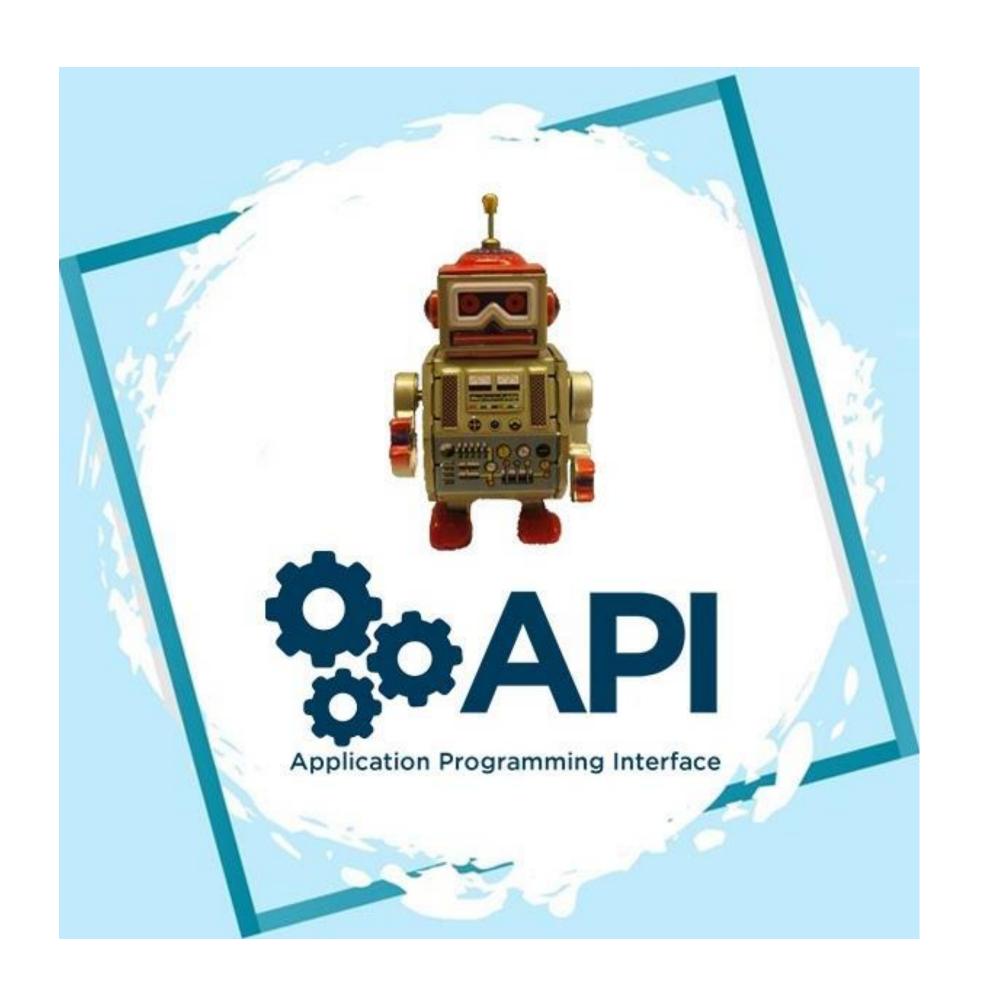
```
***Settings***
Library
               OperatingSystem
***Keywords***
Get Json
                 ${file_name}
    [Arguments]
                            Get File
   ${json_file}
                                           ${EXECDIR}/resources/fixtures/${file_name}
   ${json_dict}=
                                           json.loads($json_file)
                            Evaluate
                                                                       json
                   ${json_dict}
    [Return]
```

Keywords usadas no projeto



Library

- ✓ Conjunto de Keywords para determinada funcionalidade;
- ✓ São bem documentadas;
- Existem várias bibliotecas divididas em: Standard (inclusas na estrutura) e External (desenvolvidas separadamente que podem ser instaladas com base nas necessidades do teste).



Libraries usadas no projeto

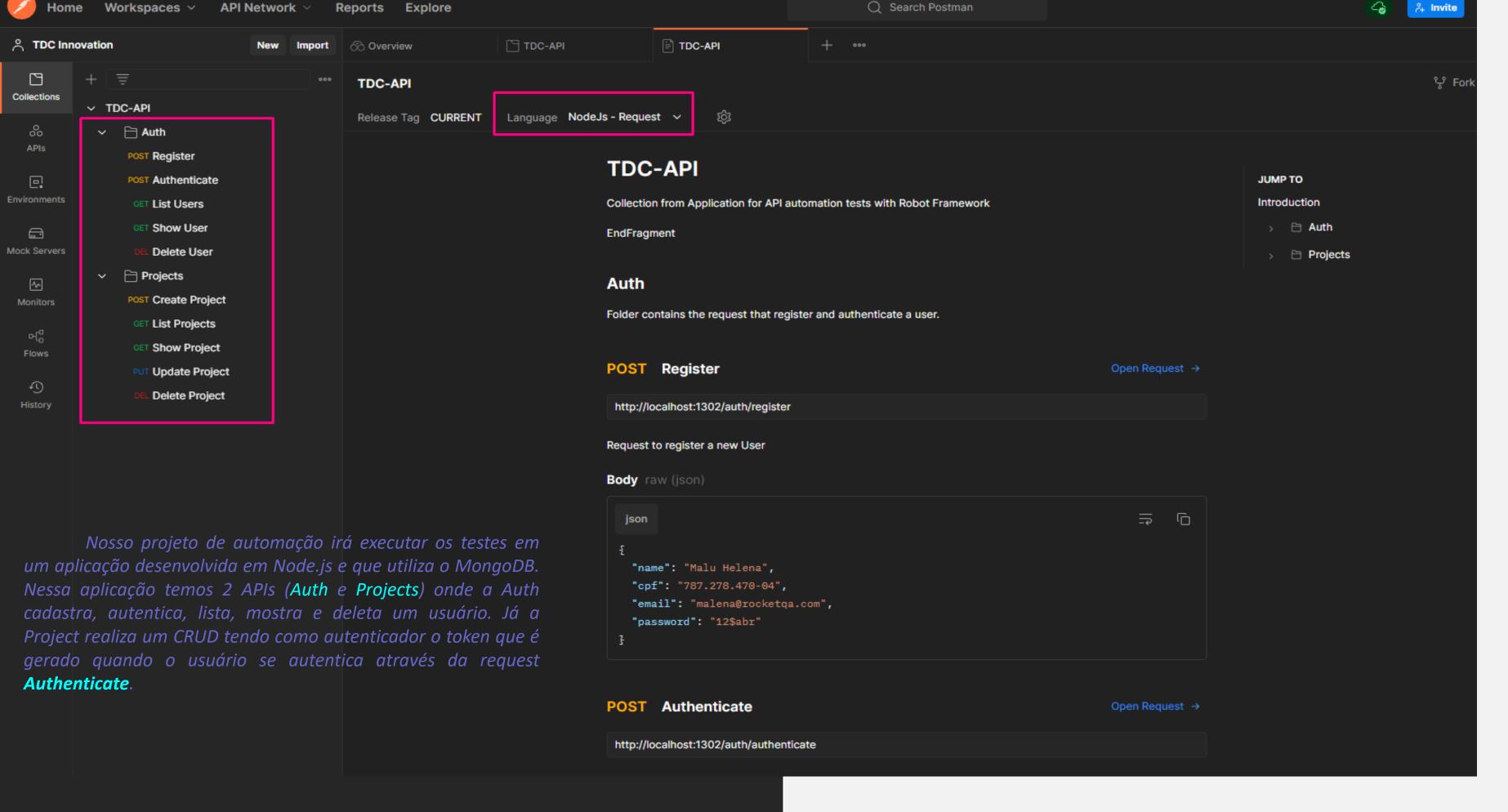
- BuiltIn
- Collections
- Operating System
- RequestsLibrary

Libraries usadas no projeto

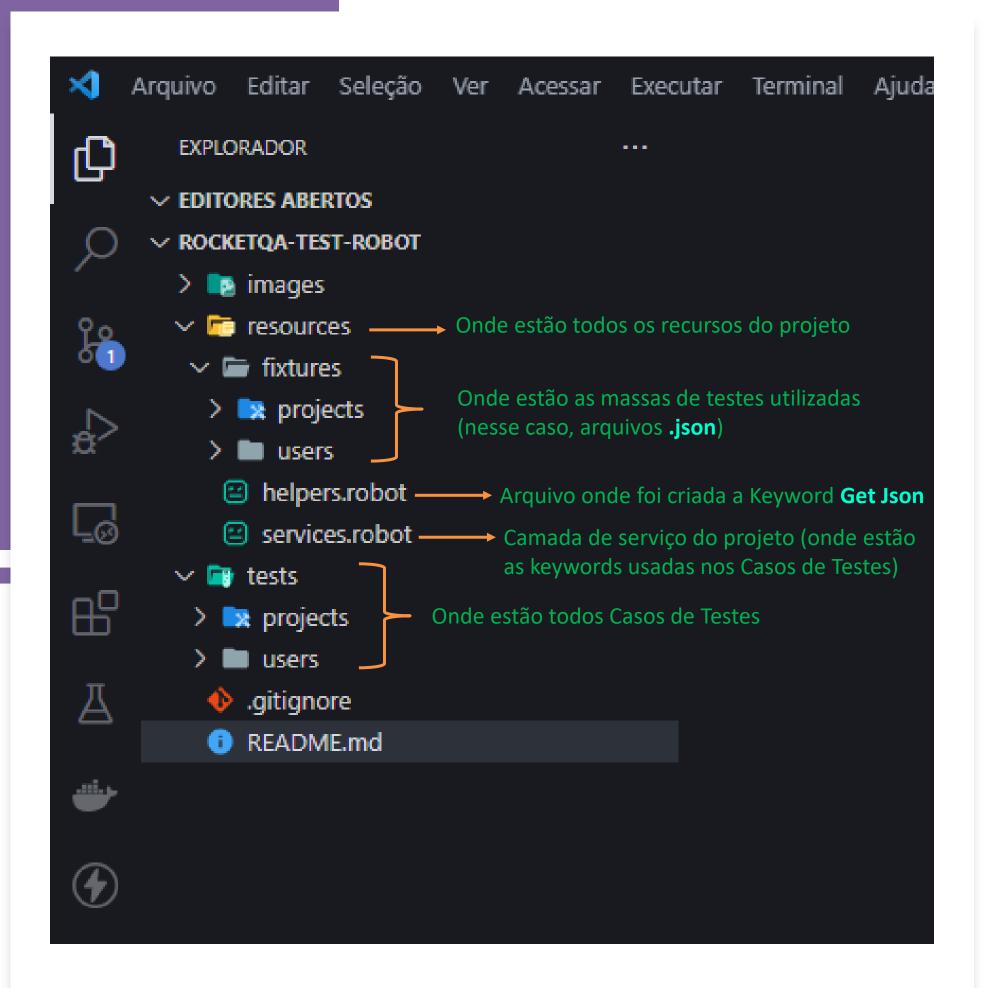
```
* Settings *
              Collections
   Library
   Library
             RequestsLibrary
 Suite Setup Create Session jsonplaceholder https://jsonplaceholder.typicode.com
 * Test Cases *
 Get Request Test
     Create Session
                      google http://www.google.com
     ${resp_google}=
                      GET On Session google / expected_status=200
     ${resp_json}=
                      GET On Session jsonplaceholder /posts/1
     Should Be Equal As Strings ${resp_google.reason} OK
                                       ${resp_json.json()} sunt aut facere repellat provident
     Dictionary Should Contain Value
```







Collection do Projeto



Estrutura do Projeto

Fixtures (users/list.json)

```
test-api-robot > resources > fixtures > users > 		 list.json > ...

✓ EDITORES ABERTOS

  X ⟨ list.json test-api-r...
                                    "users": [

▼ TDC-DEVTEST

 > api-develop-nodejs
                                            "name": "Clementina Jove",
 > images
                                            "cpf": "143.168.090-75",
 "email": "clement@rocketqa.com",

✓ resources

                                             "password": "09%mar"
                                        },
   ∨ i fixtures
     > projects
                                            "name": "Lucca Miguel",
    "cpf": "594.435.270-14",
        "email": "luguel@rocketqa.com",
        {...} unique.json
                                             "password": "09*jan"
      helpers.robot
                                        },
      services.robot
                                            "name": "Zulu Henrique",

✓ image tests

                                            "cpf": "616.414.470-10",

✓ □ projects

                                            "email": "zulu3@rocketqa.com",
       get_project_c...
                                             "password": "09$jun"
       get_projects.r...
                                        },
       post_project.r...
       put_project.r...
                                            "name": "Meg Louise",
                                            "cpf": "231.494.030-06",
    > users
                                            "email": "meglou@equiperocket.com",
     • .gitignore
                                             "password": "01%6#14"
    (i) README.md
```

Fixtures (projects/list.json)

```
test-api-robot > resources > fixtures > projects > { list.json > ...

✓ EDITORES ABERTOS

      X {..} list.json test-api-r...
                                                                                         "data": [
> api-develop-nodejs
                                                                                                              "code": "4",
    > i images
                                                                                                              "title": "Yoshi's Island",

✓ 

    test-api-robot

                                                                                                             "description": "A small island where the Yoshis live. Your boss is Iggy Koopa.",

✓ resources

                                                                                                              "tasks": [

✓ introduced with the property of the pro
                                                                                                                                  "title": "Amazing Flyin",

✓ □ projects

                                                                                                                                  "description": "Throws hammers standing on top of flying blocks.",
                    ₩ list.json
                                                                                                                                  "assignedTo": "6290f8cebd13d82c39b58421"
                   {→} unique.json
                                                                                                                       },
                    {→} update.json
             > users
                                                                                                                                  "title": "Rex",
                                                                                                                                  "description": "This dinosaur is one of the first enemies in the game. It is only defeated by jumping to
              helpers.robot
                                                                                                                                   "assignedTo": "6290f903bd13d82c39b58424"
               services.robot

✓ 

  in tests

✓ □ projects

                 get_project_c...
                 get_projects.r...
                                                                                                              "code": "5",
                 post_project.r...
                                                                                                              "title": "Valley Of Bowser",
                                                                                                              "description": "World located in a valley inside a huge cave that is shaped like Bowser's head. Their bosses are
                 put project.r...
                                                                                                              "tasks": [
         > users
            • .gitignore
                                                                                                                                  "title": "Morton Koopa Jr",
          i README.md
                                                                                                                                  "description": "Climbs walls of his room and lands on Mario and the jump makes earthquakes, is the secon
                                                                                                                                  "assignedTo": "6290f903bd13d82c39b58424"
                                                                                                                       },
                                                                                                                                  "title": "Wendy O. Koopa",
     ESTRUTURA DO CÓDIGO
                                                                                                                                   "description": "She uses the same attack as Lemmy, but there are two podoboos in her room, and she is the
     LINHA DO TEMPO
```

helpers.robot

```
test-api-robot > resources > 😑 helpers.robot > ...
EDITORES ABERTOS
                                ***Settings***
  × ≅ helpers.ro... M
                                                 OperatingSystem
                                Library

✓ TDC-DEVTEST

 > api-develop-nodejs
 > i images
                                ***Keywords***

✓ i test-api-rob...

                                Get Json

✓ resources

                                                     ${file_name}
                                    [Arguments]
    > iii fixtures
                                    ${json_file}
                                                                                ${EXECDIR}/resources/fixtures/${file_name}
                                                               Get File
     🖴 helpers.r... M
                                    ${json_dict}=
                                                                                json.loads($json_file)
                                                               Evaluate
                                                                                                               json
      services.robot

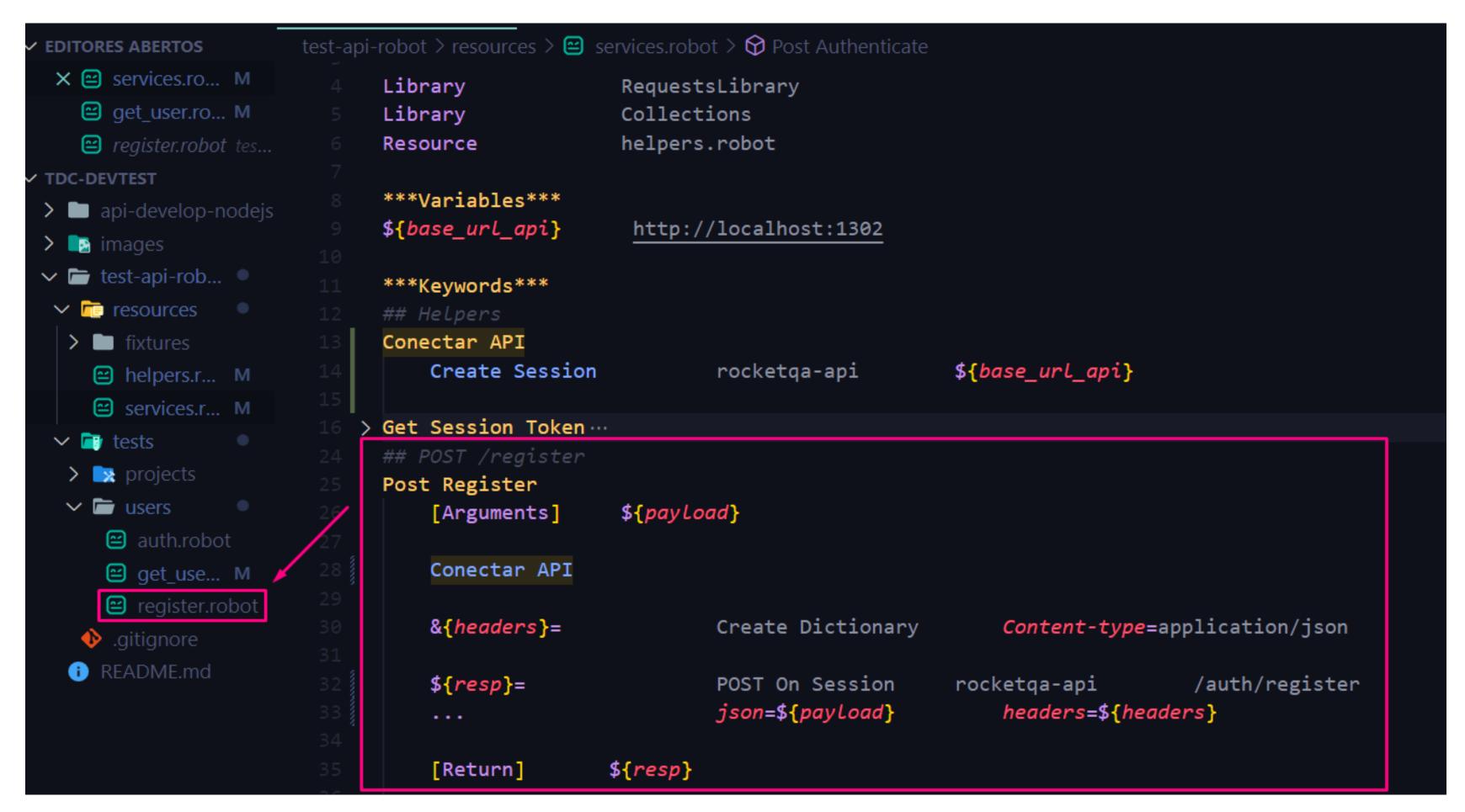
✓ i tests

                                                     ${json_dict}
                                    [Return]

✓ □ projects

       get_project_c...
       post_project.r...
       put_project.r...
    > users
     • .gitignore
    i README.md
```

```
services.robot M X
test-api-robot > resources > 😑 services.robot > 😚 Put Project
      ***Settings***
                            Camada de serviços do projeto de automação
      Documentation
      Library
                            RequestsLibrary
      Library
                            Collections
                            helpers.robot
      Resource
      ***Variables***
      ${base_url_api}
                             http://localhost:1302
      ***Keywords***
      ## Helpers
      Conectar API
                                                         ${base_url_api}
           Create Session
                                    rocketqa-api
```



```
test-api-robot > resources > 
services.robot > ...
EDITORES ABERTOS
  🗙 🖭 services.ro... M
                                ## Helpers

✓ TDC-DEVTEST

                                Conectar API
 > api-develop-nodejs
                                                                                    ${base_url_api}
                                    Create Session
                                                              rocketqa-api
 > i images
                              > Get Session Token ···

✓ i test-api-rob...

                                ## POST /register

✓ resources

                              > Post Register ···
   > in fixtures
                                ## POST /authenticate
      ≅ helpers.r... M
                               Post Authenticate
      es services.r... M
                                                     ${email}
                                                                       ${password}
                                    [Arguments]

✓ 

  itests

                                    Conectar API
   > projects

✓ i users

                                    &{headers}=
                                                              Create Dictionary
                                                                                        Content-type=application/json
       auth.robot
                                                                                        email=${email} password=${password}
                                    &{payLoad}=
                                                              Create Dictionary
       ≅ get_use... M
       register.robot
                                    ${resp}=
                                                          POST On Session
                                                                                    rocketqa-api
                                                                                                          /auth/authenticate
     • .gitignore
                                                          json=${payLoad}
                                                                                    headers=${headers}
                                     . . .
    i README.md
                                                     ${resp}
                                    [Return]
```

```
🗙 🖴 services.ro... M
                             ## POST /register
                           > Post Register ...
TDC-DEVTEST
                             ## POST /authenticate
> api-develop-nodejs
                           > Post Authenticate ...
> limages

✓ i test-api-rob...

                             Get Users

✓ resources

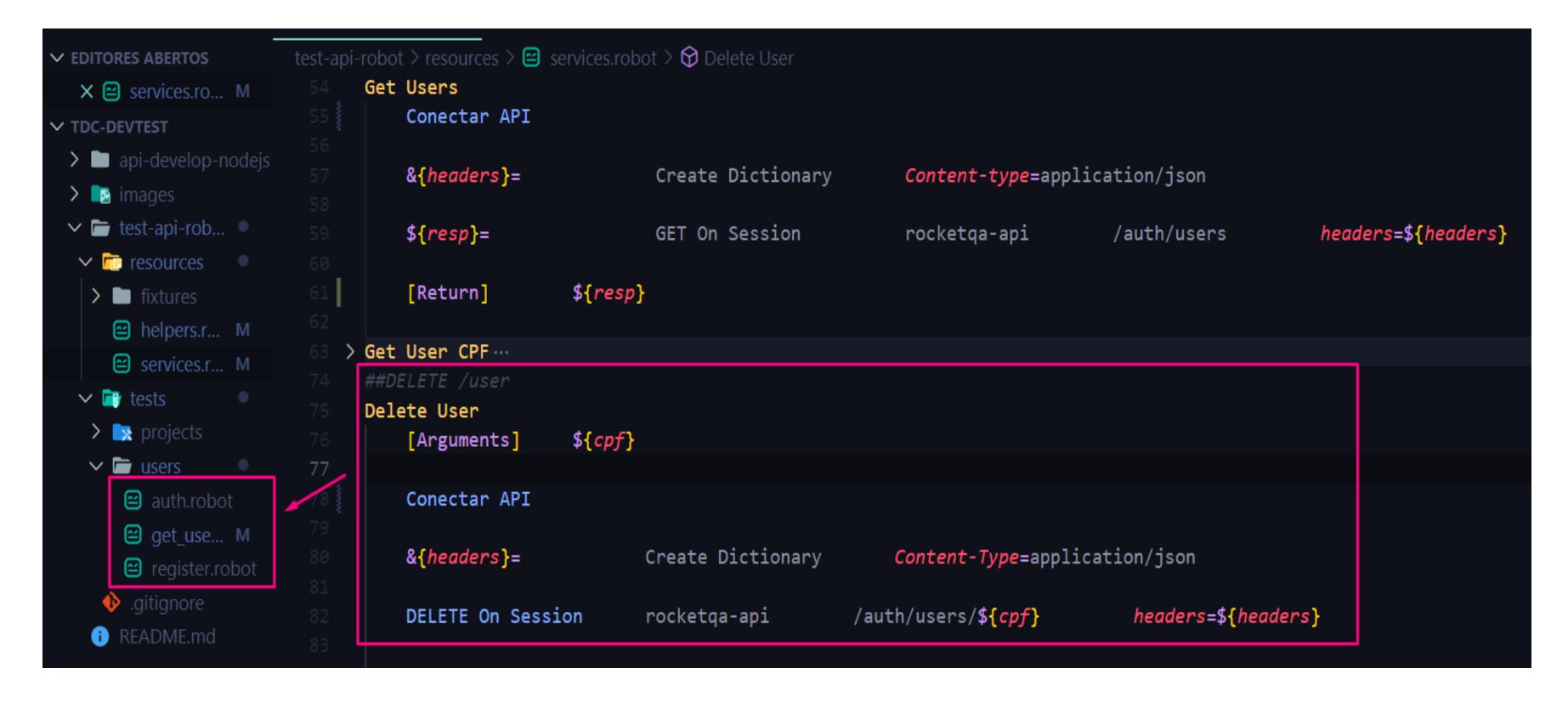
                                  Conectar API
 > in fixtures
    e helpers.r... M
                                  &{headers}=
                                                           Create Dictionary
                                                                                    Content-type=application/json
    e services.r... M
                                 ${resp}=
                                                                                    rocketqa-api
                                                                                                         /auth/users
                                                                                                                              headers=${headers}
                                                           GET On Session

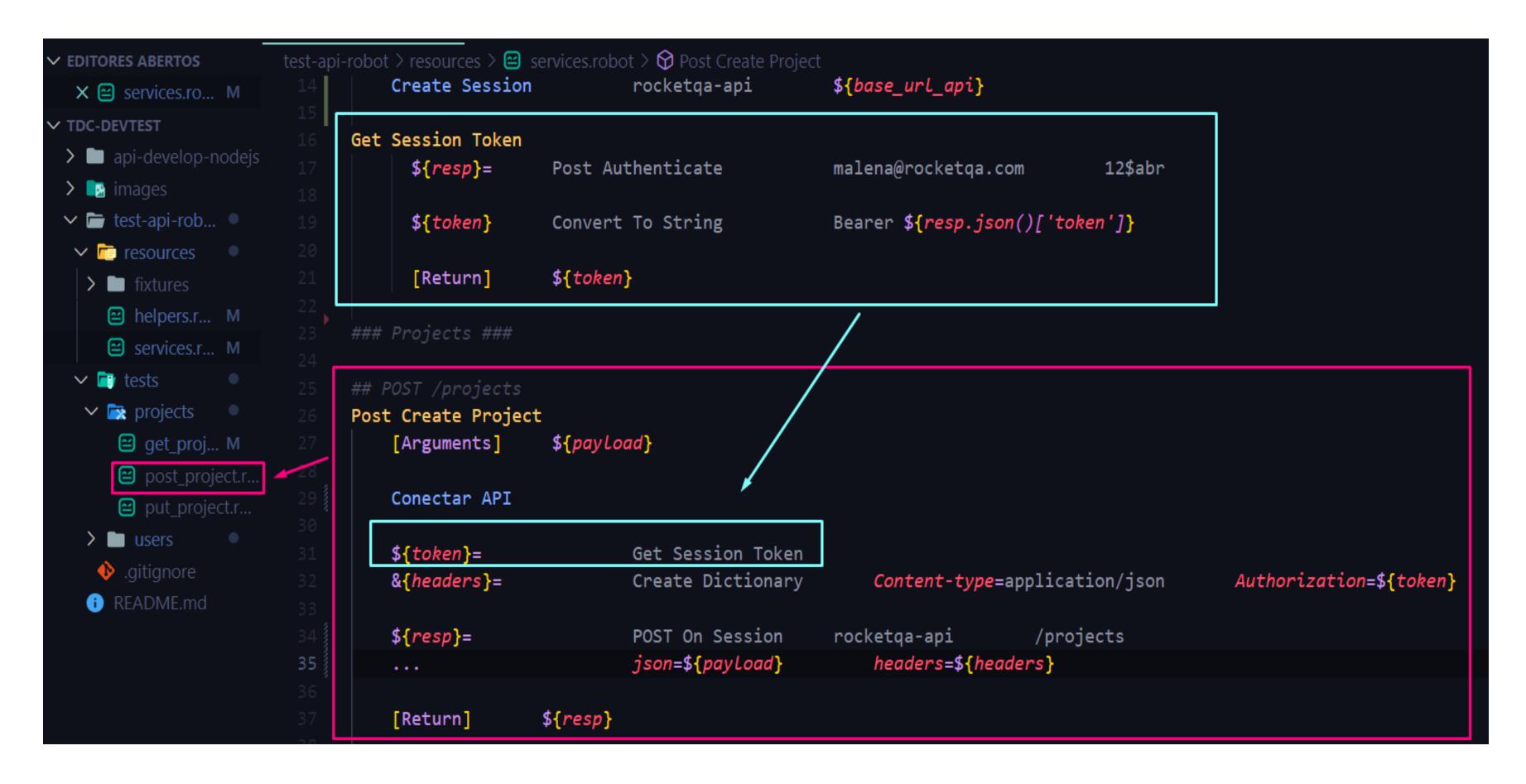
✓ i tests

 > projects
                                                  ${resp}
                                  [Return]

✓ a users

     auth.robot
                             Get User CPF
     ≅ get_use... M
                                                           ${cpf}
                                  [Arguments]
     register.robot
                                  Conectar API
   • .gitignore
  i README.md
                                  &{headers}=
                                                           Create Dictionary
                                                                                    Content-type=application/json
                                                                                                                                     headers=${headers}
                                  ${resp}=
                                                                                    rocketqa-api
                                                                                                         /auth/users/${cpf}
                                                           GET On Session
                                                  ${resp}
                                  [Return]
```





```
test-api-robot > resources > ≅ services.robot > ♦ Put Project

✓ EDITORES ... 1 NÃO SALVO

         • E services.ro... M
                                                                                                                Get Projects

▼ TDC-DEVTEST

                                                                                                                              Conectar API
     > api-develop-nodejs
     > images
                                                                                                                              ${token}=
                                                                                                                                                                                                                        Get Session Token

✓ i test-api-rob...

                                                                                                                              &{headers}=
                                                                                                                                                                                                                        Create Dictionary
                                                                                                                                                                                                                                                                                                                  Content-type=application/json
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Authorization=${token}

✓ resources

             > in fixtures
                                                                                                                              ${resp}=
                                                                                                                                                                                                                        GET On Session
                                                                                                                                                                                                                                                                                               rocketqa-api
                                                                                                                                                                                                                                                                                                                                                                          /projects
                                                                                                                                                                                                                                                                                                                                                                                                                                  headers=${headers}
                     e helpers.r... M
                                                                                                                                                                                      ${resp}
                                                                                                                               [Return]
                     es services.r... M

✓ i tests

                                                                                                                Get Unique Project

✓ image projects

Output

Description:

                                                                                                                               [Arguments]
                                                                                                                                                                                          ${code}
                        🖴 get_proj... M
                         post_project.r...
                                                                                                                              Conectar API
                         put_project.r...
                                                                                                                              ${token}=
                                                                                                                                                                                                                        Get Session Token
             > users
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Authorization=${token}
                                                                                                                                                                                                                        Create Dictionary
                                                                                                                                                                                                                                                                                                                  Content-type=application/json
                                                                                                                              &{headers}=
                 • .gitignore
              i README.md
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              headers=${headers}
                                                                                                                              ${resp}=
                                                                                                                                                                                                                        GET On Session
                                                                                                                                                                                                                                                                                                                   rocketqa-api
                                                                                                                                                                                                                                                                                                                                                                                             /projects/${code}
```

```
test-api-robot > resources > ≅ services.robot > ♦ Delete Project
✓ EDITORES ... 1 NÃO SALVO
  • e services.ro... M
                                ## POST /projects
                              > Post Create Project ...
✓ TDC-DEVTEST
                                ## GET /projects
> api-develop-nodejs
                              > Get Projects ···
 > limages
                              > Get Unique Project ...

✓ i test-api-rob...

                               ## PUT /projects

✓ resources

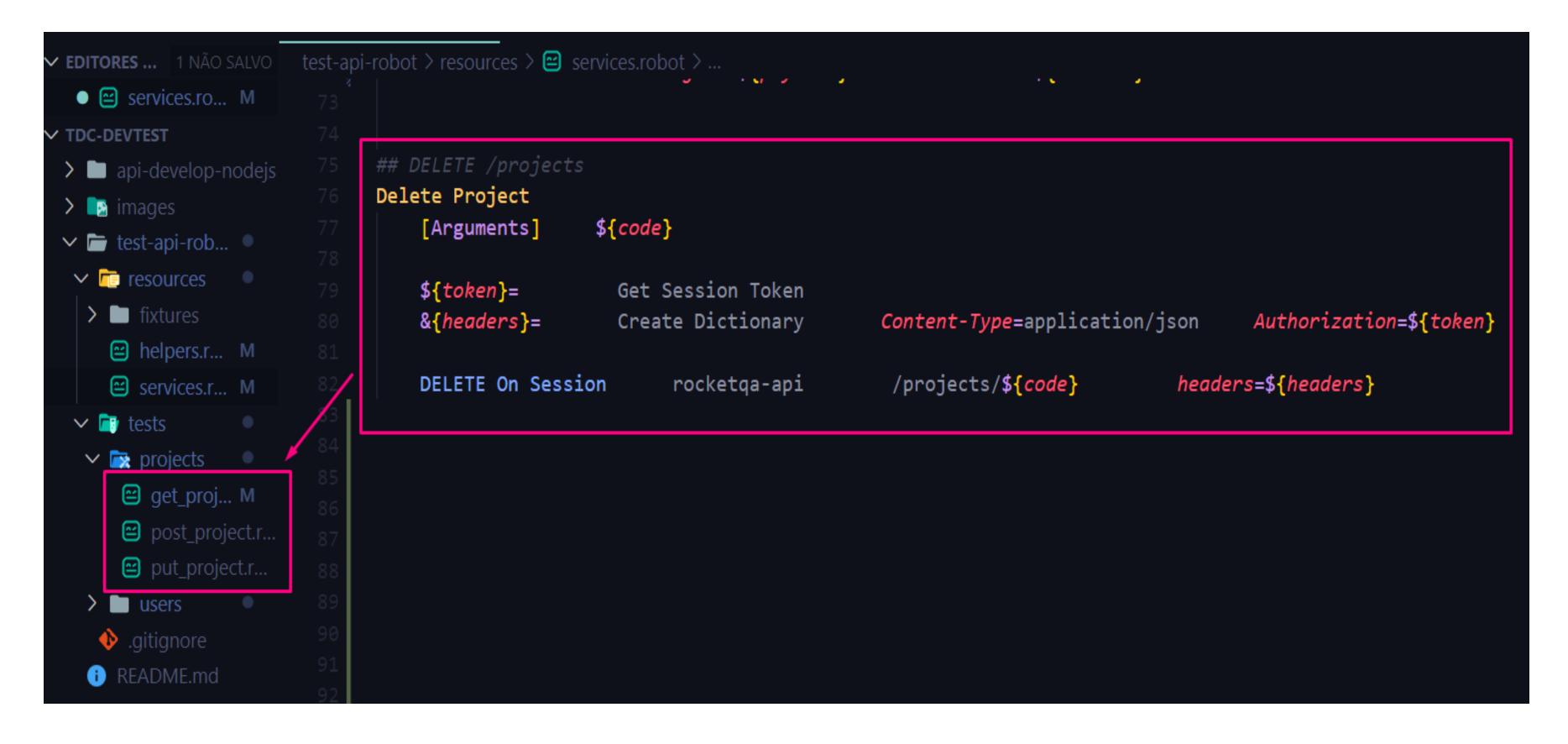
                               Put Project
   > in fixtures
                                    [Arguments]
                                                          ${payLoad}
                                                                                ${code}
     ≅ helpers.r... M
                                    Conectar API
     services.r... M

✓ i tests

                                    ${token}=
                                                              Get Session Token

✓ image projects

                                                                                                                                Authorization=${token}
                                                              Create Dictionary
                                                                                         Content-type=application/json
                                    &{headers}=
       get_proj... M
       post_project.r...
                                                                                                          /projects/${code}
                                    ${resp}=
                                                              PUT On Session
                                                                                    rocketqa-api
                                                              json=${payLoad}
                                                                                         headers=${headers}
      put_project.r..
                                     . . .
   > users
```



register.robot

```
test-api-robot > tests > users > 
register.robot > ...
∨ EDITORES ABERTOS
                                 *** Settings ***
   X ≅ register.robot tes...
                                                     Caso de Teste da Collection: authControler - Cadastra um novo usuário
                                Documentation

▼ TDC-DEVTEST

                                Resource
                                                    ../../resources/services.robot
 > api-develop-nodejs
 > 📭 images

✓ i test-api-rob...

                                 *** Test Cases ***

✓ resources

                                 Register User
                                    ${payLoad}=
                                                                      users/unique.json
    > in fixtures
                                                          Get Json
      ≅ helpers.r... M
                                                          ${payLoad['cpf']}
                                    Delete User
      services.r... M

✓ i tests

                                                           Post Register
                                                                             ${payLoad}
                                    ${resp}=
    > projects

✓ i users

                                    Status Should Be
                                                                    ${resp}
                                                           201
       auth.robot
       ≅ get_use... M
       register.robot
                           18
        .gitignore
       README.md
```

auth.robot

```
auth.robot X
  EXPLORADOR
                         test-api-robot > tests > users > ≅ auth.robot > ...
∨ EDITORES ABERTOS
                                *** Settings ***
  🗙 🖭 auth.robot test-a...
                                                   Caso de testes da Collection: authControler - Autentica um usuário cadastrado
                                Documentation
> TDC-DE... ☐ ☐ ☐ ☐
                                                   ../../resources/services.robot
                                Resource
 > 🖿 api-develop-nodejs
 > i images

✓ i test-api-rob...

                                *** Test Cases ***

✓ resources

                                Authenticate User
                                    ${resp}=
                                                        Post Authenticate
                                                                                   malena@rocketqa.com
    > iii fixtures
                                                                                                               12$abr
                                    Status Should Be
                                                                          ${resp}
                                                         200
      e helpers.r... M
      services.r... M

✓ 

  in tests

    > projects

✓ i users

       auth.robot
       register.robot
     • .gitignore
    i README.md
```

get_user.robot

```
EXPLORADOR
                      test-api-robot > tests > users > 
get_user.robot > ...
EDITORES ABERTOS
                             *** Settings ***
 🗙 😑 get_user.ro... M
                                               Caso de Teste da Collection: authControler - Lista todos os usuários cadastrados
                             Documentation
✓ TDC-DEVTEST
                                               ../../resources/services.robot
                             Resource
> api-develop-nodejs
> 📭 images
                             *** Test Cases ***

✓ resources

                             Get Users List
  > infixtures
                                 ${List}=
                                                                    users/list.json
                                                    Get Json
    e helpers.r... M
    services.r... M
                                            ${item}
                                                                @{list['users']}
                                 FOR
                                                        IN

✓ 

  in tests

  > projects
                                    Post Register
                                                    ${item}

✓ i users

                                 END
     auth.robot
                                                        Get Users
                                 ${resp}=
     Status Should Be
                                                         200
                                                                        ${resp}
     register.robot
    • .gitignore
                             Get Show User
   i README.md
                                 ${origin}=
                                                                users/unique.json
                                                    Get Json
                                                    ${origin['cpf']}
                                Delete User
                                                    Post Register
                                                                                     ${origin}
                                 ${resp}=
                                                                                     ${resp.json()['user']['cpf']}
                                                    Set Variable
                                 ${user_cpf}=
                                                    Get User CPF
                                                                        ${user_cpf}
                                 ${resp}=
                                 Status Should Be
                                                                                               ${resp}
                                                         200
 ESTRUTURA DO CÓDIGO
```

post_project.robot

```
post_project.robot X
 EXPLORADOR
                        test-api-robot > tests > projects > 😑 post_project.robot > ...

✓ EDITORES ABERTOS

                              *** Settings ***
  Caso de Teste da Collection: projectControler - Cadastra um novo projeto
                              Documentation
V TDC-DE... C C C D □
                                                 ../../resources/services.robot
                              Resource
 > api-develop-nodejs
 > 📭 images
                              *** Test Cases ***

✓ i test-api-rob...

                              Create Project

✓ resources

                                                                   projects/unique.json
                                  ${payLoad}=
                                                       Get Json
   > in fixtures
                                  Delete Project
                                                       ${payLoad['code']}
      ≅ helpers.r... M
      services.r... M
                                                       Post Create Project
                                                                               ${payLoad}
                                  ${resp}=

✓ image tests

✓ image projects

                                  Status Should Be
                                                              ${resp}
                                                       201
       post_project.r...
       > users
     • .gitignore
    i README.md
```

get_projects.robot

```
get projects.robot M X
 EXPLORADOR

✓ EDITORES ABERTOS

                        test-api-robot > tests > projects > \equiv get_projects.robot > ...
                               *** Settings ***
  🗙 🖭 get_projec... M
                                                  Caso de Teste da Collection: projectControler - Lista todos os projetos cadastrados
                               Documentation

▼ TDC-DEVTEST

                                                  ../../resources/services.robot
                               Resource
 > api-develop-nodejs
 > images
                               *** Test Cases ***

✓ test-api-rob... •

                               Get Project List

✓ resources

                                   ${List}=
                                                                          projects/list.json
                                                         Get Json
   > in fixtures
                                                ${item}
                                                            IN
                                                                     @{List['data']}
                                   FOR_
     ≅ helpers.r... M
                                       Post Create Project | ${item}
     services.r... M
                                    END

✓ 

  interpretation
  tests

✓ Image: ✓ projects  

       Get Projects
                                   ${resp}=
                                   Status Should Be
                                                                          ${resp}
      post_project.r..
                                                             200
       put_project.r...
    > users
                               Get Show Project
    .gitignore
    i README.md
                                   ${origin}=
                                                                     projects/unique.json
                                                         Get Json
                                                                 ${origin['code']}
                                   Delete Project
                                   ${resp}=
                                                                 Post Create Project
                                                                                          ${origin}
                                   ${projectcode}=
                                                                 Convert To String
                                                                                           ${resp.json()['project']['code']}
                                                             Get Unique Project
                                                                                      ${projectcode}
                                   ${resp}=
                                   Status Should Be
                                                                                               ${resp}
                                                             200
> ESTRUTURA DO CÓDIGO
```

put_project.robot

```
put_project.robot X
  EXPLORADOR
                        test-api-robot > tests > projects > \exists \text{ put_project.robot > ...
∨ EDITORES ABERTOS
                                *** Settings ***
  Caso de Teste da Collection: projectControler - Atualiza um projeto cadastrado pelo seu code
                                Documentation

▼ TDC-DEVTEST

                                                   ../../resources/services.robot
                                Resource
 > api-develop-nodejs
 > 📭 images
                                *** Test Cases ***

✓ i test-api-rob...

✓ resources

                                Update a Project
    > in fixtures
                                                                 Get Json
                                    ${payLoad}=
                                                                                           projects/unique.json
      e helpers.r... M
                                    ${update}=
                                                                                           projects/update.json
                                                                 Get Json
      es services.r... M

✓ i tests

                                    Delete Project
                                                                 ${payLoad['code']}

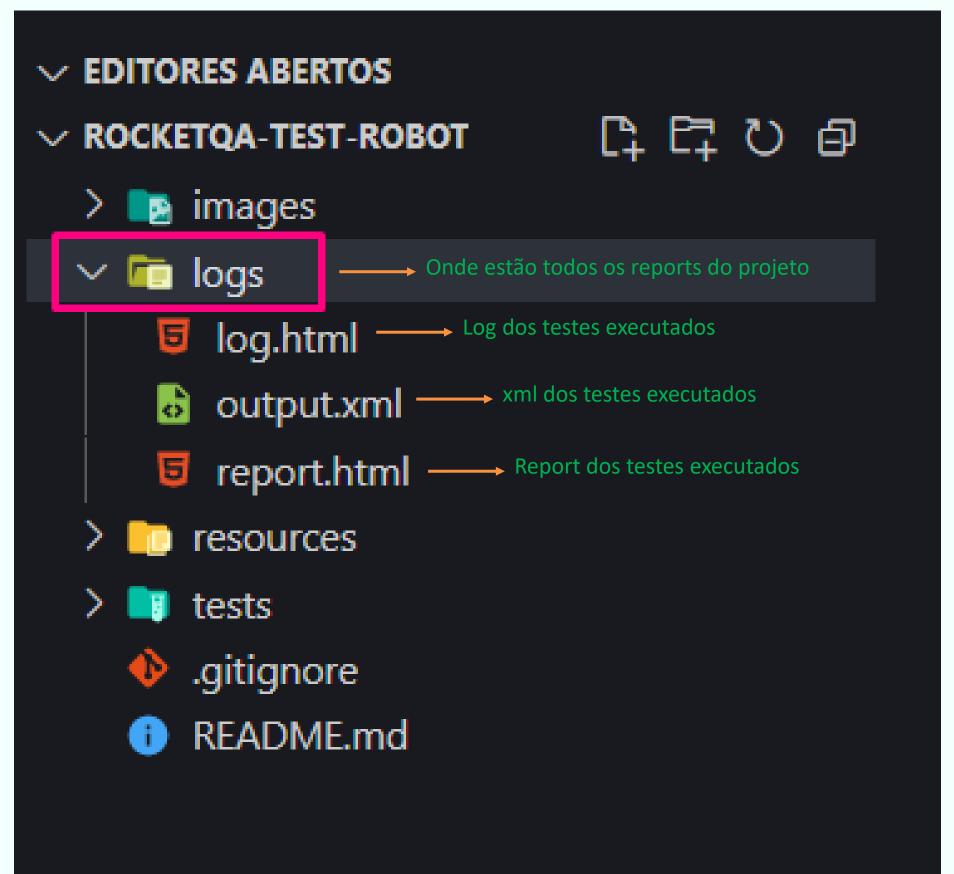
✓ image projects

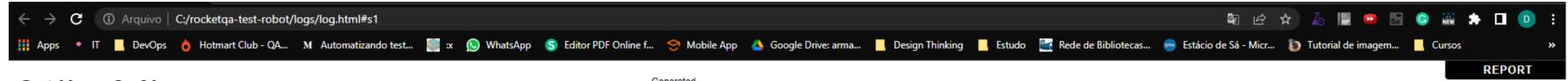
                                                                 Post Create Project
                                                                                           ${payLoad}
                                    ${resp}=
       ≅ get_proj... M
                                    ${projectcode}=
                                                                 Convert To String
                                                                                            ${resp.json()['project']['code']}
       post project.r...
       put_project.r...
                                    Set To Dictionary
                                                                 ${update}
                                                                                         [tasks]
                                                                                                        ${payLoad}
    > users
     • .gitignore
                                    ${resp}=
                                                                 Put Project
                                                                                           ${update}
                                                                                                               ${projectcode}
    i README.md
                                                                                           ${resp}
                                    Status Should Be
                                                                 200
```

Executando os testes

```
    ↑ Cmder
C:\rocketqa-test-robot (master -> origin)
λ robot -d ./logs tests\users\register.robot ------ Comando para executar o teste
Register :: Caso de Teste da Collection: authControler - Cadastra um novo u...
                                                                                       PASS
Register User
Register :: Caso de Teste da Collection: authControler - Cadastra ... | PASS |
1 test, 1 passed, 0 failed
Output: C:\rocketqa-test-robot\logs\output.xml
     C:\rocketqa-test-robot\logs\log.html
Log:
                                                         Geração dos Reports que serão armazenados na pasta logs
Report: C:\rocketqa-test-robot\logs\report.html
```

Logs





Get User Cpf Log

Generated 20220527 18:56:05 UTC-03:00 10 seconds ago

Test Statistics

	Total Statistics	\$	Total	Pass \$	Fail ♦	Skip \$	Elapsed \$	Pass / Fail / Skip
All Tests			1	1	0	0	00:00:00	
	Canalasian bu Tan		T-4-L A	D *	F-9 A	Cl.!	Flancial A	D / F-!! / Cl-!-
	Statistics by Tag		Total	Pass +	Fail \$	Skip \$	Elapsed	Pass / Fail / Skip
No Tags								
	Statistics by Suite	\$	Total \$	Pass \$	Fail \$	Skip \$	Elapsed \$	Pass / Fail / Skip
Get User Cpf	•		1	1	0	0	00:00:00	

Test Execution Log

SUITE Get User Cpf		00:00:00.353
Full Name:	Get User Cpf	
Documentation:	Documentação dos casos de testes da Collection: authControler	
Source:	C:\rocketqa-test-robot\tests\users\get_user_cpf.robot	
Start / End / Elapsed:	20220527 18:56:05.327 / 20220527 18:56:05.680 / 00:00:00.353	
Status:	1 test total, 1 passed, 0 failed, 0 skipped	
- TEST Get Show Us	ser	00:00:00.178
Full Name:	Get User Cpf.Get Show User	
Start / End / Elapsed	20220527 18:56:05.500 / 20220527 18:56:05.678 / 00:00:00.178	
Status:	PASS	
+ KEYWORD \${orig	jin} = helpers.Get Json users/unique.json	00:00:00.005
+ KEYWORD services	.Delete User \${origin['cpf']}	00:00:00.059
• KEYWORD \${resp	p} = services. Post Register \${origin}	00:00:00.098
• KEYWORD \${use	er_cpf} = Builtlin . Set Variable \${resp.json()['user']['cpf']}	00:00:00.001
• KEYWORD \${resp	p} = services. Get User CPF \${user_cpf}	00:00:00.010
+ KEYWORD Request	sLibrary. Status Should Be 200, \${resp}	00:00:00.000

```
- TEST Get Show User
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       00:00:00.178
   Full Name:
                                              Get User Cpf.Get Show User
                                              20220527 18:56:05.500 / 20220527 18:56:05.678 / 00:00:00.178
    Start / End / Elapsed:
    Status:
    KEYWORD ${origin} = helpers. Get Json users/unique.json
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       00:00:00.005
                                              20220527 18:56:05.501 / 20220527 18:56:05.506 / 00:00:00.005
        Start / End / Elapsed:
       KEYWORD $\{\text{json_file}\} = \text{operating}\text{System. Get File $\{\text{EXECDIR}\}\/\resources\/\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       00:00:00.001
            Documentation:
                                                   Returns the contents of a specified file.
                                                  20220527 18:56:05.501 / 20220527 18:56:05.502 / 00:00:00.001
            Start / End / Elapsed:
                                                   Getting file 'C:\rocketqa-test-robot\resources\fixtures\users\unique.json'.
            18:56:05.501
                                       INFO
            18:56:05.502
                                       INFO ${json_file} = {
                                                                   "name": "Luz de Mila",
                                                                   "cpf": "502.858.430-36",
                                                                   "email": "lumila@equiperocket.com",
                                                                   "password": "14&410"
        - KEYWORD ${json_dict} = Builtin. Evaluate json.loads($json_file), json
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       00:00:00.003
            Documentation:
                                                   Evaluates the given expression in Python and returns the result.
            Start / End / Elapsed:
                                                  20220527 18:56:05.502 / 20220527 18:56:05.505 / 00:00:00.003
                                       INFO ${json_dict} = {'name': 'Luz de Mila', 'cpf': '502.858.430-36', 'email': 'lumila@equiperocket.com', 'password': '14&410'}
            18:56:05.505
                                   INFO ${origin} = {'name': 'Luz de Mila', 'cpf': '502.858.430-36', 'email': 'lumila@equiperocket.com', 'password': '14&410'}
       18:56:05.506
    KEYWORD services. Delete User ${origin['cpf']}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       00:00:00.059
                                              20220527 18:56:05.506 / 20220527 18:56:05.565 / 00:00:00.059
        Start / End / Elapsed:
        KEYWORD RequestsLibrary. Create Session rocketqa-api, ${base_url_api}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       00:00:00.000
            Documentation:
                                                   Create Session: create a HTTP session to a server
            Start / End / Elapsed:
                                                  20220527 18:56:05.507 / 20220527 18:56:05.507 / 00:00:00.000
                                        INFO Creating Session using : alias=rocketqa-api, url=http://localhost:1302, headers={},
                                                                                                                                                                                                                                      cookies={}, auth=None, timeout=None, proxies=None, verify=False,
                                                                                                                                                                                                                                                                                                                                                                                       debug=0
        KEYWORD &{headers} = Builtin. Create Dictionary Content-Type=application/json
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       00:00:00.000
            Documentation:
                                                   Creates and returns a dictionary based on the given items.
                                                  20220527 18:56:05.508 / 20220527 18:56:05.508 / 00:00:00.000
            Start / End / Elapsed:
            18:56:05.508
                                       INFO &{headers} = { Content-Type=application/json }
        KEYWORD RequestsLibrary.DELETE On Session rocketqa-api, /auth/users/${cpf}, headers=${headers}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       00:00:00.057
            Documentation:
                                                   Sends a DELETE request on a previously created HTTP Session.
            Start / End / Elapsed:
                                                   20220527 18:56:05.508 / 20220527 18:56:05.565 / 00:00:00.057
            18:56:05.564
                                                    DELETE Request : url=http://localhost:1302/auth/users/502.858.430-36
                                                       path_url=/auth/users/502.858.430-36
                                                       headers={'User-Agent': 'python-requests/2.27.1', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive', 'Content-Type': 'application/json', 'Content-Length': '0'}
                                                       body=None
            18:56:05.564
                                                    DELETE Response : url=http://localhost:1302/auth/users/502.858.430-36
                                                       status=204, reason=No Content
                                                       headers={'X-Powered-By': 'Express', 'Access-Control-Allow-Origin': '*', 'Access-Control-Allow-Origin': '*', 'Access-Control-Allow-Methods': 'GET,PUT,POST,DELETE', 'ETag': 'W/"25-iQsNwei@jlji1DEVaHlTlWq5WmQ"', 'Date': 'Fri, 27 May 2022 21:56:05 GMT', 'Connection': 'keep-alive', 'Keep-Alive':
                                                      'timeout=5'}
                                                       body=None
```

```
* KEYWORD ${origin} = helpers. Get Json users/unique.json
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.005

    KEYWORD services. Delete User ${origin['cpf']}

                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.059
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.098
KEYWORD ${resp} = services.Post Register ${origin}
                                     20220527 18:56:05.566 / 20220527 18:56:05.664 / 00:00:00.098
   Start / End / Elapsed:
   KEYWORD RequestsLibrary. Create Session rocketqa-api, ${base url api}
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.000
       Documentation:
                                          Create Session: create a HTTP session to a server
       Start / End / Elapsed:
                                         20220527 18:56:05.566 / 20220527 18:56:05.566 / 00:00:00.000
                                          Creating Session using : alias=rocketqa-api, url=http://localhost:1302, headers={},
                                                                                                                                                                                                         cookies={}, auth=None, timeout=None, proxies=None, verify=False,
                                                                                                                                                                                                                                                                                                                                            debug=0
   KEYWORD &{headers} = Builtin. Create Dictionary Content-type=application/json
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.001
       Documentation:
                                          Creates and returns a dictionary based on the given items.
       Start / End / Elapsed:
                                         20220527 18:56:05.566 / 20220527 18:56:05.567 / 00:00:00.001
                               INFO &{headers} = { Content-type=application/json }
      18:56:05.567
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.097
   KEYWORD ${resp} = RequestsLibrary.POST On Session rocketqa-api, /auth/register, json=${payload}, headers=${headers}
       Documentation:
                                          Sends a POST request on a previously created HTTP Session.
       Start / End / Elapsed:
                                         20220527 18:56:05.567 / 20220527 18:56:05.664 / 00:00:00.097
       18:56:05.664
                               INFO POST Request : url=http://localhost:1302/auth/register
                                             path_url=/auth/register
                                             headers={'User-Agent': 'python-requests/2.27.1', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive', 'Content-type': 'application/json', 'Content-Length': '106'}
                                             body=b'{"name": "Luz de Mila", "cpf": "502.858.430-36", "email": "lumila@equiperocket.com", "password": "14&410"}'
       18:56:05.664
                                          POST Response : url=http://localhost:1302/auth/register
                                             status=201, reason=Created
                                             headers={'X-Powered-By': 'Express', 'Access-Control-Allow-Origin': '*', 'Access-Control-Allow-Origin': '*', 'Access-Control-Allow-Origin': '*', 'Access-Control-Allow-Origin': '8', 'Access-Control-Allow-Origin':
                                            'Date': 'Fri, 27 May 2022 21:56:05 GMT', 'Connection': 'keep-alive', 'Keep-Alive': 'timeout=5'}
                                             body={"message":"User Created", "user":{"name":"Luz de Mila", "cpf": "502.858.430-36", "email":"lumila@equiperocket.com", "_id": "629148f5bd13d82c39b58453", "createdAt": "2022-05-
                                            27T21:56:05.578Z","__v":0},"token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjYyOTE0OGY1YmQxM2Q4MmMzOWI10DQ1MyIsImlhdCI6MTY1MzY4ODU2NSwiZXhwIjoxNjUzNzc0OTY1fQ.gs8p3MSP24WxLPWnK0sX-GSS6lyIaWgAvbpckOVTruI"}
       18:56:05.664
                               INFO ${resp} = <Response [201]>
   18:56:05.664
                           INFO ${resp} = <Response [201]>
KEYWORD ${user cpf} = Buillin. Set Variable ${resp.json()['user']['cpf']}
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.001
   Documentation:
                                     Returns the given values which can then be assigned to a variables.
   Start / End / Elapsed:
                                     20220527 18:56:05.665 / 20220527 18:56:05.666 / 00:00:00.001
   18:56:05.666
                           INFO ${user_cpf} = 502.858.430-36
KEYWORD ${resp} = services.Get User CPF ${user cpf}
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.010
                                     20220527 18:56:05.666 / 20220527 18:56:05.676 / 00:00:00.010
   Start / End / Elapsed:
   KEYWORD RequestsLibrary. Create Session rocketqa-api, ${base url api}
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.000
       Documentation:
                                          Create Session: create a HTTP session to a server
       Start / End / Elapsed:
                                         20220527 18:56:05.667 / 20220527 18:56:05.667 / 00:00:00.000
                               INFO Creating Session using : alias=rocketqa-api, url=http://localhost:1302, headers={},
                                                                                                                                                                                                          cookies={}, auth=None, timeout=None, proxies=None, verify=False,
                                                                                                                                                                                                                                                                                                                                            debug=0
   KEYWORD &{headers} = Builtin. Create Dictionary Content-type=application/json
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.001
       Documentation:
                                          Creates and returns a dictionary based on the given items.
       Start / End / Elapsed:
                                         20220527 18:56:05.667 / 20220527 18:56:05.668 / 00:00:00.001
       18:56:05.668
                               INFO &{headers} = { Content-type=application/json }
   * KEYWORD ${resp} = RequestsLibrary.GET On Session rocketqa-api, /auth/users/${cpf}, headers=${headers}
                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.008
                           INFO ${resp} = None
   18:56:05.676

    KEYWORD RequestsLibrary. Status Should Be 200, $\{\text{resp}\}\]

                                                                                                                                                                                                                                                                                                                                                                                                                   00:00:00.000
```

KEYWORD \${resp} = services. Get User CPF \${user_cpf} 00:00:00.010 20220527 18:56:05.666 / 20220527 18:56:05.676 / 00:00:00.010 Start / End / Elapsed: KEYWORD RequestsLibrary. Create Session rocketqa-api, \${base_url_api} 00:00:00.000 Documentation: Create Session: create a HTTP session to a server Start / End / Elapsed: 20220527 18:56:05.667 / 20220527 18:56:05.667 / 00:00:00.000 INFO Creating Session using : alias=rocketqa-api, url=http://localhost:1302, headers={}, cookies={}, auth=None, timeout=None, proxies=None, verify=False, debug=0 ■ KEYWORD &{headers} = Buildin. Create Dictionary Content-type=application/json 00:00:00.001 Documentation: Creates and returns a dictionary based on the given items. 20220527 18:56:05.667 / 20220527 18:56:05.668 / 00:00:00.001 Start / End / Elapsed: INFO &{headers} = { Content-type=application/json } KEYWORD \$\{resp\} = RequestsLibrary.GET On Session rocketqa-api, /auth/users/\$\{cpf\}, headers=\$\{headers\}\} 00:00:00.008 Documentation: Sends a GET request on a previously created HTTP Session. Start / End / Elapsed: 20220527 18:56:05.668 / 20220527 18:56:05.676 / 00:00:00.008 18:56:05.676 INFO GET Request : url=http://localhost:1302/auth/users/502.858.430-36 path_url=/auth/users/502.858.430-36 headers={'User-Agent': 'python-requests/2.27.1', 'Accept-Encoding': 'gzip, deflate', 'Accept': '*/*', 'Connection': 'keep-alive', 'Content-type': 'application/json'} 18:56:05.676 INFO GET Response : url=http://localhost:1302/auth/users/502.858.430-36 status=200, reason=OK headers={'X-Powered-By': 'Express', 'Acess-Control-Allow-Origin': '*', 'Access-Control-Allow-Methods': 'GET,PUT,POST,DELETE', 'Content-Type': 'application/json; charset=utf-8', 'Content-Length': '194', 'ETag': 'W/"c2-Env+OuSynHH8RKwTedFNcvc4z7Q"', 'Date': 'Fri, 27 May 2022 21:56:05 GMT', 'Connection': 'keep-alive', 'Keep-Alive': 'timeout=5'} body={"message":"User Showed", "user":[{"_id":"629148f5bd13d82c39b58453", "name":"Luz de Mila", "cpf":"502.858.430-36", "email":"lumila@equiperocket.com", "createdAt":"2022-05-27T21:56:05.578Z", "__v":0}]} 18:56:05.676 INFO \${resp} = <Response [200]> 18:56:05.676 INFO \${resp} = None 00:00:00.000 KEYWORD RequestsLibrary. Status Should Be 200, \$\{resp\}\ Documentation: Fails if response status code is different than the expected. Start / End / Elapsed: 20220527 18:56:05.677 / 20220527 18:56:05.677 / 00:00:00.000

output.xm 5

```
logs > 🗟 output.xml
     <?xml version="1.0" encoding="UTF-8"?>
      <robot generator="Robot 5.0 (Python 3.10.4 on win32)" generated="20220527 20:45:42.590" rpa="false" schemaversion="3">
      <suite id="s1" name="Get User" source="C:\rocketqa-test-robot\tests\users\get user.robot">
      <test id="s1-t1" name="Get Users List" line="7">
      <kw name="Get Json" library="helpers">
      <var>${list}</var>
      <arg>users/list.json</arg>
      <kw name="Get File" library="OperatingSystem">
      <var>${json_file}</var>
      <arg>${EXECDIR}/resources/fixtures/${file name}</arg>
      <doc>Returns the contents of a specified file.</doc>
      <msg timestamp="20220527 20:45:42.703" level="INFO" html="true">Getting file '&lt;a href="file://C:\rocketqa-test-robot\resources\fixtures\users\list.json"&gt;C:\rocketqa-test-robot
      <msg timestamp="20220527 20:45:42.704" level="INFO">${json file} = {
          "users": [
                  "name": "Clementina Jove",
                  "cpf": "143.168.090-75",
                  "email": "clement@rocketqa.com",
                  "password": "09%mar"
                  "name": "Lucca Miguel",
                  "cpf": "594.435.270-14",
      ...</msg>
      <status status="PASS" starttime="20220527 20:45:42.703" endtime="20220527 20:45:42.704"/>
      <kw name="Evaluate" library="BuiltIn">
      <var>${json_dict}</var>
      <arg>json.loads($json_file)</arg>
      <arg>json</arg>
      <doc>Evaluates the given expression in Python and returns the result.</doc>
      <msg timestamp="20220527 20:45:42.707" level="INFO">${json_dict} = {'users': [{'name': 'Clementina Jove', 'cpf': '143.168.090-75', 'email': 'clement@rocketqa.com', 'password': '09%
      <status status="PASS" starttime="20220527 20:45:42.704" endtime="20220527 20:45:42.707"/>
      <msg timestamp="20220527 20:45:42.707" level="INFO">${list} = {'users': [{'name': 'Clementina Jove', 'cpf': '143.168.090-75', 'email': 'clement@rocketqa.com', 'password': '09%mar']
      <status status="PASS" starttime="20220527 20:45:42.703" endtime="20220527 20:45:42.707"/>
      </kw>
      <for flavor="IN">
      <var>${item}</var>
      <value>@{list['users']}</value>
      <iter>
      <var name="${item}">{'name': 'Clementina Jove', 'cpf': '143.168.090-75', 'email': 'clement@rocketqa.com', 'password': '09%mar'}</var>
      <kw name="Post Register" library="services">
      <arg>${item}</arg>
      <kw name="Create Session" library="RequestsLibrary">
      <arg>rocketqa-api</arg>
      <arg>${base_url_api}</arg>
      <doc>Create Session: create a HTTP session to a server</doc>
      <msg timestamp="20220527 20:45:42.709" level="INFO">Creating Session using : alias=rocketqa-api, url=http://localhost:1302, headers={},
                                                                                                                                                                  cookies={}, auth=None,
```

report.html

Projects Report

Generated 20220528 05:07:32 UTC-03:00 2 minutes 14 seconds ago

Summary Information

Status: All tests passed

 Start Time:
 20220528 05:07:31.753

 End Time:
 20220528 05:07:32.905

Elapsed Time: 00:00:01.152 Log File: log.html

Test Statistics

Total Statistics	\$	Total \$	Pass ≑	Fail 💠	Skip \$	Elapsed \$	Pass / Fail / Skip
All Tests		4	4	0	0	00:00:01	
Statistics by Tag	\$	Total	Pass +	Fail +	Skip \$	Elapsed \$	Pass / Fail / Skip
No Tags							
Statistics by Suite	\$	Total +	Pass \$	Fail 💠	Skip \$	Elapsed *	Pass / Fail / Skip
Statistics by Suite Projects	\$	Total \$	Pass \$	Fail \$	Skip \$	Elapsed \$ 00:00:01	Pass / Fail / Skip
•	\$				-		Pass / Fail / Skip
Projects	\$			0	0	00:00:01	Pass / Fail / Skip
Projects Projects . Get Project Code	\$			0	0	00:00:01 00:00:00	Pass / Fail / Skip

Test Details

All Tags	Suites Search
Suite:	
Test:	
Include:	
Exclude:	
	Search Clear Help



Obrigada, pessoall

Referências:

- https://robotframework.org/#/
- √ http://robotframework.org/robotframework/#user-guide
- ✓ https://www.sympla.com.br/sympla-play/NlcKbLDsVpyB51-kQlJB-EUCrcscc9inkGSVtFomDzA/38734
- ✓ Automação de Testes Robot Framework autora: Debora Matos (Arquiteta de Testes na Radix)
- √ https://github.com/dani-cavalcanti/TDC-DevTest

