



Sistemas Web Seguros

Atividade Somativa 2



ATIVIDADE SOMATIVA

ATIVIDADE SOMATIVA 2: Cliente SISFIN e integração de serviços

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Atividade 2: Novos serviços no SISRH – Empregado

Construa dois serviços para o recurso empregado:

1. Um serviço para listar apenas empregados ativos, ou seja, cuja data de desligamento seja nula.

The screenshot shows the SoapUI interface with the following details:

- File Menu:** File, Project, Suite, Case, Step, Tools, Desktop, Help.
- Toolbar:** Empty, SOAP, REST, Import, Save All, Forum, Trial, Preferences, Proxy.
- Endpoint Explorer:** Shows the endpoint `http://localhost:8080/sisrh/rest/empregado/ativos`.
- Request 1:** Method: GET, Endpoint: `http://localhost:8080/sisrh/rest/empregado/ativos`, Resource: `/sisrh/rest/empregado/ativos`.
- Request Properties:** Name: Request 1, Value: Response time: 104ms (21682 bytes).
- Request Params:** Name: Request 1, Value: Response time: 104ms (21682 bytes).
- Raw Request XML:**

```
1 [ {  
2     "matricula": "210501",  
3     "nome": "Luigi Campos",  
4     "admissao": "2016-08-27",  
5     "desligamento": null,  
6     "salario": 1876  
},  
7     {  
8         "matricula": "210502",  
9         "nome": "Marcela Ferreira",  
10        "admissao": "2000-09-05",  
11        "desligamento": null,  
12        "salario": 1762  
},  
13     {  
14         "matricula": "210503",  
15         "nome": "Joana Nascimento",  
16         "admissao": "2015-09-04",  
17         "desligamento": null,  
18         "salario": 1868  
},  
19     {  
20         "matricula": "210504",  
21         "nome": "Nicole Martins",  
22         "admissao": "2017-08-20",  
23         "desligamento": null,  
24         "salario": 1868  
},  
25 }
```



2. Um serviço para listar apenas empregados inativos, ou seja, quando o empregado possui uma data de desligamento.

The screenshot shows the SoapUI interface with the following details:

- File Bar:** File, Project, Suite, Case, Step, Tools, Desktop, Help.
- Toolbar:** Empty, SOAP, REST, Import, Save All, Forum, Trial, Preferences, Proxy, Endpoint Explorer, Search Forum, Online Help.
- Navigator:** Projects section shows ProjetoSOAP, REST Project 1, and SISRH-REST. REST Project 1 has endpoints Ativos and Inativos, each with a Request 1.
- Request Panel:** Request 1 (Method: GET, Endpoint: http://localhost:8080, Resource: /sirh/rest/empregado/inativos). The Request tab shows the raw XML/JSON/HTML representation of the request body.
- Response Panel:** Shows the response body in JSON format listing three inactive employees.
- Request Properties:** Name: Request 1, Description: Encoding.
- Request Params:** No parameters listed.
- Log:** Response time: 778ms (349 bytes).
- Bottom Buttons:** SoapUI log, http log, jetty log, error log, wsrn log, memory log.

```
1 [ {  
2     "matricula": "310590",  
3     "nome": "Luiza Rodrigues",  
4     "admissao": "2009-06-19",  
5     "desligamento": "2019-01-18",  
6     "salario": 1962  
7 },  
8     {  
9         "matricula": "210628",  
10        "nome": "Bernardo Castro",  
11        "admissao": "2006-11-25",  
12        "desligamento": "2016-11-25",  
13        "salario": 1891  
14 },  
15     {  
16         "matricula": "210700",  
17         "nome": "Gustavo Melo",  
18         "admissao": "2009-05-25",  
19         "desligamento": "2019-05-25",  
20         "salario": 2171  
21     }  
22 }  
23 ]
```



Atividade 3: Serviços para manutenção de usuários

Construa uma API que permita a manutenção dos usuários por meio dos seguintes serviços REST:

1. Listar usuários.

The screenshot shows the SoapUI interface with the following details:

- File Bar:** File, Project, Suite, Case, Step, Tools, Desktop, Help.
- Toolbar:** Empty, SOAP, REST, Import, Save All, Forum, Trial, Preferences, Proxy.
- Endpoint Explorer:** Shows a project named "ProjetoSOAP" with a REST service at "http://localhost:8080". The service has endpoints for "Ativos", "Inativos", and "Usuario". A specific endpoint "ListarUsuarios" is selected.
- Request Panel:** Method: GET, Endpoint: http://localhost:8080/sisrh/rest/usuario, Resource: /sisrh/rest/usuario. The Request table shows columns: Name, Value, Style, Level. The Response pane displays a JSON array of user objects:

```
[{"nome": "admin", "perfil": 2, "matricula": null, "senha": "e10adc3949ba59abbe56e057f20f883e"}, {"nome": "alanapereira@pucpr.br", "perfil": 0, "matricula": "210627", "senha": "e10adc3949ba59abbe56e057f20f883e"}, {"nome": "alicealves@pucpr.br", "perfil": 0, "matricula": "210677", "senha": "e10adc3949ba59abbe56e057f20f883e"}, {"nome": "alicedaconcei\u00e3o@pucpr.br", "perfil": 0, "matricula": "210644", "senha": "e10adc3949ba59abbe56e057f20f883e"}, {"nome": "alicedacruz@pucpr.br", "perfil": 0, "matricula": "210644", "senha": "e10adc3949ba59abbe56e057f20f883e"}]
```

- Method Properties:** Name: ListarUsuarios, Description: , HTTP Method: GET.
- Log:** Shows "response time: 894ms (22273 bytes)".
- Logs:** SoapUI log, http log, jetty log, error log, wsrm log, memory log.



2. Obter um usuário a partir de uma matrícula.

SoapUI 5.8.0

File Project Suite Case Step Tools Desktop Help

Empty SOAP REST Import Save All Forum Trial Preferences Proxy Endpoint Explorer Search Forum Online Help

Navigator

objects

- ProjetoSOAP
- REST Project 1
 - http://localhost:8080
 - Ativos [/sirh/rest/empregado]
 - Inativos [/sirh/rest/empregad]
 - Usuario [/sirh/rest/usuario/{nr}]
 - ListarUsuarios
 - ObterUsuarioPorMatricula
 - Request 1
 - SISRH
 - SISRH-REST

Request 1

Method: GET Endpoint: http://localhost:8080 Resource: /sirh/rest/usuario/{matricula} Parameters:

Name	Value	Style	Level
matricula	210527	TEMPLATE	RESOURCE

Raw XML JSON HTML

```
1 {
2   "nome": "alanapereira@pucpr.br",
3   "perfil": 0,
4   "matricula": "210527",
5   "senha": "e10adc3949ba59abbe56e057f20f883e"
6 }
```

Required: Sets if parameter is required

Type:

Options:

A... Head... Attachme... Representati... JMS H... JMS Prop... Headers... Attachme... SSL ... Representati... Schema (co... JM...

response time: 79ms (107 bytes)

Properties

SoapUI log http log jetty log error log wsrm log memory log



3. Incluir um usuário.

SoapUI 5.8.0

File Project Suite Step Tools Desktop Help

Empty SOAP REST Import Save All Forum Trial Preferences Proxy Endpoint Explorer Search Forum Online Help

Navigator

ProjetoSOAP
REST Project 1
http://localhost:8080
Ativos [/sirh/rest/empregado]
Inativos [/sirh/rest/empregado]
Usuario [/sirh/rest/usuario]
ListarUsuarios
ObterUsuarioPorMatricula
IncluirUsuario
SISRH
SISRH-REST

Request 1

Method: POST Endpoint: http://localhost:8080 Resource: /sirh/rest/usuario/
Parameters:

Name	Value	Style	Level
matricula	TEMPLATE	RESOURCE	

Raw XML JSON

```
1 {  
2   "nome": "teste@pucpr.br",  
3   "perfil": 1,  
4   "matricula": "123456",  
5   "senha": "e7d80fffeefaa212b7c5c55700e4f7193e"  
6 }
```

Required: Sets if parameter is required
Type:
Media Type: application/json

Raw XML JSON

```
1 {  
2   "nome": "teste@pucpr.br",  
3   "perfil": 1,  
4   "matricula": "123456",  
5   "senha": "senha123"  
6 }
```

A... Head... Attachme... Representati... JMS He... JMS Prop...
response time: 558ms (100 bytes)
Header... Attachment... SSL... Representation... Schema (co... JMS...
1:1

Method Properties Method Params
Property Value
Name IncluirUsuario
Description
HTTP Method POST
Properties

SoapUI log http log jetty log error log wsrm log memory log



4. Alterar um usuário a partir da sua matrícula.

The screenshot shows the SoapUI interface with the following details:

- File Bar:** File, Project, Suite, Case, Step, Tools, Desktop, Help.
- Toolbar:** Empty, SOAP, REST, Import, Save All, Forum, Trial, Preferences, Proxy.
- Endpoint Explorer:** Shows the endpoint `http://localhost:8080` and resource `/sisrh/rest/usuario/{matricula}`.
- Navigator:** Lists projects and REST services. The REST Project 1 contains a service at `http://localhost:8080` with methods: Ativos, Inativos, Usuario, ListarUsuarios, ObtenerUsuarioPorMatricula, IncluirUsuario, and AlterarUsuario.
- Request Panel:** Request 1 is selected. Method: PUT, Endpoint: `http://localhost:8080`, Resource: `/sisrh/rest/usuario/{matricula}`. Parameters: matricula = 123456. The Request tab shows the JSON payload:

```
{
    "nome": "teste@pucpr.br",
    "perfil": 1,
    "matricula": "123456",
    "senha": "novaSenha456"
}
```
- Response Panel:** Shows the response code 200 OK and the JSON response:

```
{
    "nome": "teste@pucpr.br",
    "perfil": 1,
    "matricula": "123456",
    "senha": "3dda324b0fbe945902dbe6bb1ba312cd"
}
```
- Bottom Log:** Shows the response time: 63ms (100 bytes).



5. Excluir um usuário.

The screenshot shows the SoapUI interface with the following details:

- Navigator:** Shows a project named "ProjetoSOAP" containing a "REST Project 1" with endpoints for Ativos, Inativos, Usuario, ListarUsuarios, ObterUsuarioPorMatricula, IncluirUsuario, AlterarUsuario, and ExcluirUsuario. A "Request 1" is selected under the ExcluirUsuario endpoint.
- Request 1:** Method: DELETE, Endpoint: http://localhost:8080/sisrh/rest/usuario/{matricula}, Resource: /sisrh/rest/usuario/{matricula}. Parameters: matricula = 123456.
- Response:** Raw JSON response: {"mensagem": "Usuário 123456 excluído com sucesso!"}.
- Request Properties:** Name: Request 1.
- Request Params:** None.
- Log:** Headers..., Attachments..., SSL I..., Representation..., Schema (confi...), JMS ...
- Log Buttons:** SoapUI log, http log, jetty log, error log, wsrm log, memory log.



6. Criar um cenário de uso completo:

a. Criar um empregado.

SoapUI 5.8.0

File Project Suite Case Step Tools Desktop Help

Empty SOAP REST Import Save All Forum Trial Preferences Proxy Endpoint Explorer Search Forum Online Help

Navigator

objects

- ProjetoSOAP
- REST Project 1
 - http://localhost:8080
 - Ativos [/sirh/rest/empregado]
 - Inativos [/sirh/rest/empregado]
 - Usuario [/sirh/rest/usuario/{nr}]
 - ListarUsuarios
 - ObterUsuarioPorMatricula
 - IncluirUsuario
 - AlterarUsuario
 - ExcluirUsuario
 - Empregado [/sirh/rest/empregado]
 - Criar
- SISRH
- SISRH-REST

Request 1

Method: POST Endpoint: http://localhost:8080 Resource: /sirh/rest/empregado Parameters:

Raw XML JSON HTML Raw

Required: Sets if parameter is required Type: Media Type: application/json

Method Properties Method Params

Property	Value
Name	Criar
Description	
HTTP Method	POST

Properties

Header... Attachme... Representatio... JMS He... JMS Prop... response time: 167ms (106 bytes)

Header... Attachmen... SSL I... Representatio... Schema (con... JMS...

SoapUI log http log jetty log error log wsrn log memory log

Inspector



b. Criar um usuário vinculado ao empregado recém-criado.

The screenshot shows the SoapUI interface with the following details:

- Navigator:** Shows a project named "ProjetoSOAP" containing a "REST Project 1" with endpoints for "Ativos", "Inativos", "Usuario", "ObterUsuarioPorMatricula", "IncluirUsuario", "Request 1" (selected), "AlterarUsuario", "ExcluirUsuario", "Empregado", and "Criar".
- Request 1:** A POST request to `http://localhost:8080/sisrh/rest/usuario/{matricula}`.
 - Parameters:** A table with one row for "matricula" set to "TEMPLATE" and "RESOURCE".
 - Raw:** JSON payload:

```
1 {
2     "nome": "vanessa.teste@pucpr.br",
3     "perfil": 1,
4     "matricula": "999999",
5     "senha": "e7d80fffeefaa212b7c6c55700e4f7193e"
6 }
```
 - Media Type:** application/json
- Request Properties:** Table showing "Name" as Request 1, "Description" as null, and "Encoding" as null.
- Log:** Shows a response time of 37ms (108 bytes).



c. Gerar um JWT para esse novo usuário.

The screenshot shows the SoapUI interface with the following details:

- Navigator:** Projects > ProjetoSOAP > REST Project 1 > http://localhost:8080 > GerarJWT
- Request 1:** Method: POST, Endpoint: http://localhost:8080/sisrh/rest/sistema/loginunico/jwt, Resource: /sisrh/rest/sistema/loginunico/jwt
- Request Data (Raw JSON):**

```
[{"usuario": "vanessa.teste@pucpr.br", "senha": "senhal23"}]
```
- Method Properties:** Name: GerarJWT, Description: GerarJWT, HTTP Method: POST
- Response:** eyJhbGciOiJIUzI1NiJ9.eyJzdWIoiJ2YW5lc3NhLnRlc3RlQH...

