



Sistemas Web Seguros

Atividades – Semana 7 e 8





ATIVIDADE SOMATIVA

ATIVIDADE SOMATIVA 2: SISRH – Cliente SISFIN e integração de serviços

Estudante: Diego Ricardo Silva Plinta

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 5.7.2 interface. On the left, the 'Projects' tree shows a project named 'Project 1' containing a REST service 'SISRH Servicos REST'. Under this service, there are several endpoints, including '/empregado/ativos' which is selected. The main panel shows the configuration for 'Request 1' with the following details:

- Method: GET
- Endpoint: http://localhost:8080
- Resource: /sisrh/rest/empregado/ativos
- Parameters: (empty)

Below the configuration, there is a 'Headers' section with one header defined:

Name	Value
jwt	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1b290eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1b290eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9

On the right, the 'Inspector' panel shows the raw response in JSON format:

```
1 {
2   "matricula": "210527",
3   "nome": "Alana Pereira",
4   "admissao": "2002-08-11",
5   "desligamento": null,
6   "salario": 1922
7 },
8 {
9   "matricula": "210677",
10  "nome": "Alice Alves",
11  "admissao": "2004-11-18",
12  "desligamento": null,
13  "salario": 2422
14 },
15 {
16  "matricula": "210564",
17  "nome": "Alice da Conceição",
18  "admissao": "2010-08-14",
19  "desligamento": null,
20  "salario": 1966
21 },
22 }
```

At the bottom, the 'Request Properties' and 'Request Params' tabs are visible, showing the request name as 'Request 1'.

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



SoapUI 5.7.2

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Projects

- Project 1
 - SISRH Servicos REST
 - /empregado [/sish/rest/empregado]
 - /empregado/ativos [/sish/rest/empregado/ativos]
 - listarEmpregadosAtivos
 - Request 1
 - /empregado/inativos [/sish/rest/empregado/inativos]
 - listarEmpregadosInativos
 - Request 1
 - /empregado/(matricula) [/sish/rest/empregado/(matricula)]
 - /loginunico/jwt [/sish/rest/loginunico/jwt]
 - gerarToken
 - Request 1
 - /sistema/datahora [/sish/rest/sistema/datahora]
 - /sistema/ping [/sish/rest/sistema/ping]
 - /solicitacao [/sish/rest/solicitacao]
 - /solicitacao/(id) [/sish/rest/solicitacao/(id)]
 - /usuario [/sish/rest/usuario]
 - /usuario/(matricula) [/sish/rest/usuario/(matricula)]

Request Properties Request Params

Name Request 1

Description

Properties

Request 1

Method GET

Endpoint http://localhost:8080

Resource /sish/rest/empregado/inativos

Parameters

Request

Name	Value	Style	Level
Header	Value		
jwt	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1Ni...		

Required: ☐ Sets if parameter is required

Type:

Options:

Response

```
1 {
2   {
3     "matricula": "210628",
4     "nome": "Bernardo Castro",
5     "admissao": "2006-11-25",
6     "desligamento": "2016-11-25",
7     "salario": 1891
8   },
9   {
10    "matricula": "210700",
11    "nome": "Gustavo Melo",
12    "admissao": "2009-05-25",
13    "desligamento": "2019-05-25",
14    "salario": 2171
15  },
16  {
17    "matricula": "210590",
18    "nome": "Luiza Rodrigues",
19    "admissao": "2009-06-18",
20    "desligamento": "2019-01-18",
21    "salario": 1962
22  }
23 }
```

response time: 95ms (349 bytes)

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Atividade 3: Serviços para manutenção de usuários

1. Listar usuários.

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Projects

- Project 1
 - SISRH Servicos REST
 - /empregado [/sish/rest/empregado]
 - /empregado/ativos [/sish/rest/empregado/ativos]
 - /empregado/inativos [/sish/rest/empregado/inativos]
 - listarEmpregadosAtivos
 - Request 1
 - /empregado/(matricula) [/sish/rest/empregado/(matricula)]
 - /loginunico/jwt [/sish/rest/loginunico/jwt]
 - gerarToken
 - Request 1
 - /sistema/datahora [/sish/rest/sistema/datahora]
 - /sistema/ping [/sish/rest/sistema/ping]
 - /solicitacao [/sish/rest/solicitacao]
 - /solicitacao/(id) [/sish/rest/solicitacao/(id)]
 - /usuario [/sish/rest/usuario]
 - /usuario/(matricula) [/sish/rest/usuario/(matricula)]
 - listarUsuarios
 - Request 1
 - incluirUsuario
 - obterEmpregado
 - alterarUsuario
 - excluirUsuario

Request Properties Request Params

Name Request 1

Description

Properties

Request 1

Method GET

Endpoint http://localhost:8080

Resource /sish/rest/usuario

Parameters

Request

Name	Value	Style	Level
Header	Value		
jwt	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1Ni9.eyJhd...		

Required: ☐ Sets if parameter is required

Type:

Options:

Response

```
1 {
2   {
3     "nome": "admin",
4     "perfil": 2,
5     "matricula": null,
6     "senha": "e10adc3949ba59abbe56e057f20f883e"
7   },
8   {
9     "nome": "alanapereira@pucpr.br",
10    "perfil": 0,
11    "matricula": "210527",
12    "senha": "e10adc3949ba59abbe56e057f20f883e"
13  },
14  {
15    "nome": "alicealves@pucpr.br",
16    "perfil": 0,
17    "matricula": "210677",
18    "senha": "e10adc3949ba59abbe56e057f20f883e"
19  },
20  {
21    "nome": "alicedaconceicao@pucpr.br",
22    "perfil": 0,
23    "matricula": "210564",
24    "senha": "e10adc3949ba59abbe56e057f20f883e"
25  },
26  {
27    "nome": "alicedacruz@pucpr.br",
28    "perfil": 0,
29    "matricula": "210564",
30    "senha": "e10adc3949ba59abbe56e057f20f883e"
31  }
32 }
```

response time: 319ms (22391 bytes)

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Request 1 (Project 1/SISRH Servicos REST/usuario [/sish/rest/usuario]/listarUsuarios/Request 1)

2. Obter um usuário a partir de uma matrícula.



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Request 1

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

Name	Value	Style	Level
matricula	061017	TEMPLATE	RESOURCE

Required: ☐ Sets if parameter is required
Type:
Options:
+ Add

Header	Value
jwt	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJhd...

response time: 51ms (105 bytes)

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Inspector: Headers (6) Attachments (0) SSL Info Representations (2) Schema (conflicts) JMS (0)

1:1

3. Incluir um usuário.

SoapUI 5.7.2

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Request 1

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

Media Type: application/json ☒ Post QueryString

```
{
  "nome": "diegosilva@pucpr.br",
  "perfil": 0,
  "matricula": "061017",
  "senha": "senha123"
}
```

response time: 69ms (105 bytes)

response time: 205ms (104 bytes)

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Inspector: Headers ... Attachments ... SSL ... Representation ... Schema (confi ... JMS ...

1:1

4. Alterar um usuário a partir da sua matrícula.



SoapUI 5.7.2

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Request 1

Method: PUT Endpoint: http://localhost:8080 Resource: /sisrh/rest/usuario/{matricula}

Name	Value	Style	Level
matricula	061017	TEMPLATE	RESOURCE

Required: ☐ Sets if parameter is required

Type:

Media Type: application/json ☐ Post QueryString

```
{
  "nome": "diegosilva@pucpr.br",
  "perfil": 0,
  "matricula": "061017",
  "senha": "aaaaaa"
}
```

Auth Headers (1) Attachments (0) Representations (1) JMS Headers JMS Property (0)

Headers (6) Attachments (0) SSL Info Representations (6) Schema (conflicts) JMS (0)

response time: 30ms (104 bytes)

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5. Excluir um usuário.

SoapUI 5.7.2

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Request 1

Method: DELETE Endpoint: http://localhost:8080 Resource: /sisrh/rest/usuario/{matricula}

Name	Value	Style	Level
matricula	061017	TEMPLATE	RESOURCE

Required: ☐ Sets if parameter is required

Type:

Media Type: application/json ☐ Post QueryString

```
{
  "mensagem": "Usuario 061017 excluido!"
}
```

Auth Headers (1) Attachments (0) Representations (1) JMS Headers JMS Property (0)

Headers (6) Attachments (0) SSL Info Representations (1) Schema (conflicts) JMS (0)

response time: 39ms (43 bytes)

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6. Criar um cenário de uso completo:

a. Criar um empregado.



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Projects

- Project 1
 - SISRH Servicos REST
 - /empregado [/sish/rest/empregado]
 - listarEmpregados
 - incluirEmpregado
 - Request 1

Request 1

Method: POST Endpoint: http://localhost:8080 Resource: /sish/rest/empregado

Media Type: application/json

```
{
  "matricula": "061017",
  "nome": "Diego Silva",
  "admissao": "2024-01-01",
  "desligamento": null,
  "salario": 2600
}
```

response time: 205ms (104 bytes)

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

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Projects

- Project 1
 - SISRH Servicos REST
 - /empregado [/sish/rest/empregado]
 - listarEmpregados
 - incluirEmpregado
 - Request 1
 - /usuario [/sish/rest/usuario]
 - listarUsuarios
 - incluirUsuario
 - Request 1

Request 1

Method: POST Endpoint: http://localhost:8080 Resource: /sish/rest/usuario

Media Type: application/json

```
{
  "nome": "diegosilva@puopr.br",
  "perfil": 0,
  "matricula": "061017",
  "senha": "senha123"
}
```

response time: 205ms (104 bytes)

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c. Gerar um JWT para esse novo usuário.



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Request 1

Method: POST Endpoint: http://localhost:8080 Resource: /sisrh/rest/loginunico/jwt Parameters:

Request Properties

Name	Value
Request 1	

Request

Media Type: application/json

```
{
  "usuario": "diegosilva@pucpr.br",
  "senha": "senha123"
}
```

response time: 53ms (265 bytes)

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d. Com esse token, acessar um serviço a que um usuário comum tenha permissão.

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Request 1

Method: GET Endpoint: http://localhost:8080 Resource: /sisrh/rest/empregado Parameters:

Request Properties

Name	Value
Request 1	

Request

Header

Name	Value
jwt	eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJhdWQiOiJ0dWJ3aWVkaXN1ci16IiwiaXNjaWkiOiJ1bWVudXN1ci16IiwiaWF0IjoiMTU1NjI1NiJ9

response time: 65ms (22462 bytes)

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Inspector

JSON

```
[
  {
    "matricula": "210527",
    "nome": "Alana Pereira",
    "admissao": "2002-08-11",
    "desligamento": null,
    "salario": 1922
  },
  {
    "matricula": "210677",
    "nome": "Alice Alves",
    "admissao": "2004-11-15",
    "desligamento": null,
    "salario": 2422
  },
  {
    "matricula": "210564",
    "nome": "Alice da Conceição",
    "admissao": "2010-08-14",
    "desligamento": null,
    "salario": 1966
  },
  {
    "matricula": "210645",
    "nome": "Alice da Cruz",
    "admissao": "2000-11-24",
    "desligamento": null
  }
]
```

e. Tentar acessar um serviço a que um usuário comum não tenha permissão; o sistema deve apresentar uma mensagem de erro.



SoapUI 5.7.2

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Request 1

Method: GET Endpoint: http://localhost:8080 Resource: /sisrh/rest/usuario Parameters:

HTTP Status 403 – Forbidden

Type: Status Report

Message: Token JWT nao encontrado ou nao autorizado!

Description: The server understood the request but refuses to authorize it.

Apache Tomcat/9.0.73

response time: 31ms (683 bytes)

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



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