Collaborator

- GET /collaborator

Headers:

o Authorization: Basic <credentials>

Response:

o Success:

Status code: 200

```
{
    "class": [
        "Collaborators",
        "collection"
    ],
    "properties": {
        "collectionSize": 2
    },
    "entities": [
        {
            "class": [
                "Collaborator"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "userName": "rui",
                "password": "patricio"
            },
            "links": [
                {
                    "rel": [
                        "self"
                    ],
                    "href": "http://localhost:8080/collaborator/rui"
                }
            ]
        },
        {
            "class": [
                "Collaborator"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "userName": "fabio",
                "password": "cannavaro"
            },
            "links": [
                {
                    "rel": [
                        "self"
                    ],
                    "href": "http://localhost:8080/collaborator/fabio"
                }
            ]
        }
    ],
    "actions": [
```

```
"actions": [
    {
        "name": "add-collaborator",
        "title": "Post Collaborator",
        "method": "POST",
        "href": "http://localhost:8080/collaborator",
        "type": "application/json",
        "fields": [
            {
                "name": "userName",
                "type": "text"
            },
            {
                "name": "password",
                "type": "text"
            }
        ]
    }
],
"links": [
    {
        "rel": [
            "self"
        ],
        "href": "http://localhost:8080/collaborator"
    }
]
}
```

- GET /collaborator/:name

Headers:

o Authorization: Basic <credentials>

Path variable:

o Name: name, Type: String

Response:

o Success:

Status code: 200

```
{
    "class": [
        "Collaborator"
    ],
    "properties": {
        "userName": "rui",
        "password": "patricio"
    },
    "links": [
        {
            "rel": [
                "self"
            ],
            "href": "http://localhost:8080/collaborator/rui"
        }
    ]
}
```

- POST /collaborator

Headers:

- o Authorization: Basic <credentials>
- o Content-Type: application/json

Body:

```
{
    "name": "Simão",
    "password": "Sabrosa"
}
```

Response:

- o Success:

Status code: 201

Message: String

Project

- GET /project

    o   Authorization: Basic <credentials>

Response:

    o   Success:

Status code: 200

```
{
    "class": [
        "Projects",
        "collection"
    ],
    "properties": {
        "collectionSize": 1
    },
    "entities": [
        {
            "class": [
                "Project"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "name": "daw",
                "description": "Daw phase1",
                "startState": "open"
            },
            "links": [
                {
                    "rel": [
                        "self"
                    ],
                    "href": "http://localhost:8080/project/daw"
                }
            ]
        }
    ],
}
```

```json
        "actions": [
            {
                "name": "add-project",
                "title": "Post Project",
                "method": "POST",
                "href": "http://localhost:8080/project",
                "type": "application/json",
                "fields": [
                    {
                        "name": "name",
                        "type": "text"
                    },
                    {
                        "name": "description",
                        "type": "text"
                    },
                    {
                        "name": "startState",
                        "type": "text"
                    }
                ]
            }
        ],
        "links": [
            {
                "rel": [
                    "self"
                ],
                "href": "http://localhost:8080/project"
            }
        ]
}
```

- GET /project/:name

Headers:
  - o   Authorization: Basic <credentials>

Path variable:
  - o   Name: name, Type: String

Response:

- o Success:

   Status code: 200

```json
{
    "class": [
        "Project"
    ],
    "properties": {
        "name": "daw",
        "description": "Daw phase1",
        "startState": "open"
    },
    "links": [
        {
            "rel": [
                "self"
            ],
            "href": "http://localhost:8080/project/daw"
        },
        {
            "rel": [
                "Issues"
            ],
            "href": "http://localhost:8080/project/daw/issue"
        }
    ]
}
```

- POST /project

   Headers:

   - o Authorization: Basic <credentials>
   - o Content-Type: application/json

   Body:

```json
{
    "name": "teste",
    "description": "teste",
    "startState": "open"
}
```

Response:

- o Success:

  Status code: 201

  Message: String

State

- GET /state

    Headers:

    - o Authorization: Basic <credentials>

    Response:

    - o Success:

        Status code: 200

```json
{
    "class": [
        "States",
        "collection"
    ],
    "properties": {
        "collectionSize": 2
    },
    "entities": [
        {
            "class": [
                "State"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "stateName": "archived"
            }
        },
        {
            "class": [
                "State"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "stateName": "open"
            }
        }
    ],
```

```
"actions": [
    {
        "name": "add-State",
        "title": "Post State",
        "method": "POST",
        "href": "http://localhost:8080/state",
        "type": "application/json",
        "fields": [
            {
                "name": "stateName",
                "type": "text"
            }
        ]
    }
],
"links": [
    {
        "rel": [
            "self"
        ],
        "href": "http://localhost:8080/state"
    }
]
}
```

- POST /state

Headers:

- o Authorization: Basic <credentials>
- o Content-Type: application/json

Body:

```
{
    "stateName": "Teste"
}
```

Response:

o Success:

Status code: 201

Message: String

- DELETE /state

Headers:

  o   Authorization: Basic <credentials>
  o   Content-Type: application/json

Body:

```
{
    "stateName": "Teste"
}
```

Response:

o   Success:

Status code: 204

Message: String

ProjectState

- GET /project/:name/projectState

Headers:

  o   Authorization: Basic <credentials>
  o   Content-Type: application/json

Path variable:

  o   Name: name, Type: String

Response:

o Success:

Status code: 200

```json
{
    "class": [
        "Project-States",
        "collection"
    ],
    "properties": {
        "projectName": "daw",
        "collectionSize": 2
    },
    "entities": [
        {
            "class": [
                "Project-State"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "projectName": "daw",
                "stateName": "archived"
            }
        },
        {
            "class": [
                "Project-State"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "projectName": "daw",
                "stateName": "open"
            }
        }
    ],
```

```
"actions": [
    {
        "name": "add-project-state",
        "title": "Post Project State",
        "method": "POST",
        "href": "http://localhost:8080/project/daw/projectstate",
        "type": "application/json",
        "fields": [
            {
                "name": "stateName",
                "type": "text"
            }
        ]
    },
    {
        "name": "remove-project-state",
        "title": "Delete Project State",
        "method": "DELETE",
        "href": "http://localhost:8080/project/daw/projectstate",
        "type": "application/json",
        "fields": [
            {
                "name": "stateName",
                "type": "text"
            }
        ]
    }
],
"links": [
    {
        "rel": [
            "self"
        ],
        "href": "http://localhost:8080/project/daw/projectstate"
    }
]
}
```

- POST /project/:name/projectState

Headers:

- o Authorization: Basic <credentials>
- o Content-Type: application/json

Path variable:

- o Name: name, Type: String

Body:

```
{
    "stateName": "teste"
}
```

Response:

o   Success:

Status code: 201

Message: String

- DELETE /project/:name/projectState

    Headers:

    o   Authorization: Basic <credentials>
    o   Content-Type: application/json

    Path variable:

    o   Name: name, Type: String

    Body:

```json
{
    "stateName": "Teste"
}
```

    Response:

o   Success:

Status code: 204

Message: String

Label

- GET /label

    Headers:

    - o   Authorization: Basic <credentials>

    Response:

    - o   Success:

    Status code: 200

```json
{
    "class": [
        "Labels",
        "collection"
    ],
    "properties": {
        "collectionSize": 1
    },
    "entities": [
        {
            "class": [
                "Label"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "labelName": "test"
            }
        }
    ],
    "actions": [
        {
            "name": "add-label",
            "title": "Post Label ",
            "method": "POST",
            "href": "http://localhost:8080/label",
            "type": "application/json",
            "fields": [
                {
                    "name": "labelName",
                    "type": "text"
                }
            ]
        },
        {
            "name": "remove-label",
            "title": "Delete Label ",
            "method": "DELETE",
            "href": "http://localhost:8080/label",
            "type": "application/json",
            "fields": [
                {
                    "name": "labelName",
                    "type": "text"
                }
            ]
        }
    ],
    "links": [
        {
            "rel": [
                "self"
            ],
            "href": "http://localhost:8080/label"
        }
    ]
}
```

- POST /label

  Headers:
  - o Authorization: Basic <credentials>
  - o Content-Type: application/json

  Body:

  ```
  {
      "labelName": "Labelling"
  }
  ```

  Response:
  - o Success:

    Status code: 201

    Message: String

- DELETE /label

  Headers:
  - o Authorization: Basic <credentials>
  - o Content-Type: application/json

  Body:

  ```
  {
      "labelName": "Labelling"
  }
  ```

Response:

o Success:

Status code: 204

Message: String

ProjectLabel

- GET /project/:name/projectlabel

    Headers:

    - o Authorization: Basic <credentials>

    Path variable:

    - o Name: name, Type: String

Response:

- o Success:

    Status code: 200

```json
{
    "class": [
        "Project-Label",
        "collection"
    ],
    "properties": {
        "projectName": "daw",
        "collectionSize": 1
    },
    "entities": [
        {
            "class": [
                "Project-Label"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "projectName": "daw",
                "labelName": "test"
            }
        }
    ],
```

- POST /project/:name/projectlabel

    Headers:

    - Authorization: Basic <credentials>
    - Content-Type: application/json

    Path variable:

    - Name: name, Type: String

    Body:

    ```
    {
        "projectName": "daw",
        "labelName": "Labelling"
    }
    ```

    Response:

    - Success:

        Status code: 201

        Message: String

- DELETE /project/:name/projectlabel

    Headers:

    - Authorization: Basic <credentials>
    - Content-Type: application/json

    Path variable:

    - Name: name, Type: String

Body:

```
{
    "projectName": "daw",
    "labelName": "Labelling"
}
```

Response:

o   Success:

Status code: 204

Message: String

Issue

- GET /project/:name/issue

    Headers:

    o   Authorization: Basic <credentials>

    Path variable:

    o   Name: name, Type: String

    Response:

    o   Success:

    Status code: 200

```json
{
    "class": [
        "Issues, Collection"
    ],
    "properties": {
        "projectName": "daw",
        "collectionSize": 8
    },
    "entities": [
        {
            "class": [
                "Issue"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "projectName": "daw",
                "id": 1,
                "name": "issue1",
                "description": "desc issue1",
                "beginDate": 1619225662647,
                "stateName": "archived"
            },
            "links": [
                {
                    "rel": [
                        "self"
                    ],
                    "href": "http://localhost:8080/project/daw/issue/1"
                }
            ]
        },
```

```json
            ],
        "actions": [
            {
                "name": "add-issue",
                "title": "Post Issue",
                "method": "POST",
                "href": "http://localhost:8080/project/daw/issue",
                "type": "application/json",
                "fields": [
                    {
                        "name": "name",
                        "type": "text"
                    },
                    {
                        "name": "description",
                        "type": "text"
                    }
                ]
            }
        ],
        "links": [
            {
                "rel": [
                    "self"
                ],
                "href": "http://localhost:8080/project/daw/issue"
            }
        ]
}
```

- GET /project/:name/issue/:id

Headers:

  o Authorization: Basic <credentials>

Path variable:

  o Name: name, Type: String
  o Name: id, Type: Int

Response:

o   Success:

Status code: 200

```json
{
    "class": [
        "Issue"
    ],
    "properties": {
        "projectName": "daw",
        "id": 1,
        "name": "issue1",
        "description": "desc issue1",
        "beginDate": 1619225662647,
        "stateName": "archived"
    },
    "actions": [
        {
            "name": "put-issue",
            "title": "Put Issue",
            "method": "PUT",
            "href": "http://localhost:8080/project/daw/issue/1",
            "type": "application/json",
            "fields": [
                {
                    "name": "stateName",
                    "type": "text"
                }
            ]
        }
    ],
    "links": [
        {
            "rel": [
                "self"
            ],
            "href": "http://localhost:8080/project/daw/issue/1"
        },
        {
            "rel": [
                "Comments"
            ],
            "href": "http://localhost:8080/project/daw/issue/1/comment"
        }
    ]
}
```

● POST /project/:name/issue

Headers:

- o   Authorization: Basic <credentials>
- o   Content-Type: application/json

Path variable:

- o   Name: name, Type: String

Body:

```
{
    "name": "issue11",
    "description": "something"
}
```

Response:

o   Success:

Status code: 201

Message: String

- PUT /project/:name/issue/:id

Headers:

- o   Authorization: Basic <credentials>
- o   Content-Type: application/json

Path variable:

- o   Name: name, Type: String
- o   Name: id, Type: Int

Body:

```
{
    "stateName": "closed"
}
```

Response:

o   Success:

Status code: 204

Message: String

ProjectState

```
{
    "stateName": "closed"
}
```

- GET /project/:name/projectstate

Headers:

- o Authorization: Basic <credentials>

Path variable:

- o Name: name, Type: String

Response:

- o Success:

  Status code: 200

```
{
    "class": [
        "Project-States",
        "collection"
    ],
    "properties": {
        "projectName": "daw",
        "collectionSize": 4
    },
    "entities": [
        {
            "class": [
                "Project-State"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "projectName": "daw",
                "stateName": "open"
            }
        },
```
```
{
    "class": [
        "Project-State"
    ],
    "rel": [
        "item"
    ],
    "properties": {
        "projectName": "daw",
        "stateName": "closed"
    }
},
{
    "class": [
        "Project-State"
    ],
    "rel": [
        "item"
    ],
    "properties": {
        "projectName": "daw",
        "stateName": "archived"
    }
},
```

```json
        {
            "class": [
                "Project-State"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "projectName": "daw",
                "stateName": "Teste"
            }
        }
    ],

    "actions": [
        {
            "name": "add-project-state",
            "title": "Post Project State",
            "method": "POST",
            "href": "http://localhost:8080/project/daw/projectstate",
            "type": "application/json",
            "fields": [
                {
                    "name": "stateName",
                    "type": "text"
                }
            ]
        },
        {
            "name": "remove-project-state",
            "title": "Delete Project State",
            "method": "DELETE",
            "href": "http://localhost:8080/project/daw/projectstate",
            "type": "application/json",
            "fields": [
                {
                    "name": "stateName",
                    "type": "text"
                }
            ]
        }
    ],

    "links": [
        {
            "rel": [
                "self"
            ],
            "href": "http://localhost:8080/project/daw/projectstate"
        }
    ]
}
```

- POST /project/:name/projectstate

  Headers:

  - Authorization: Basic <credentials>
  - Content-Type: application/json

  Path variable:

  - Name: name, Type: String

  Body:

```json
{
    "stateName": "Teste"
}
```

Response:

- Success:

  Status code: 201

  Message: String

- DELETE /project/:name/projectstate

    Headers:

    - Authorization: Basic <credentials>
    - Content-Type: application/json

    Path variable:

    - Name: name, Type: String

    Body:

    ```
    {
        "stateName": "Teste"
    }
    ```

Response:

- Success:

    Status code: 204

Message: String

IssueLabel

- GET /project/:name/issue/:id/issuelabel

Headers:

- o Authorization: Basic <credentials>

Path variable:

- o Name: name, Type: String
- o Name: id, Type: Int

Response:

- o Success:

  Status code: 200

```
{
    "class": [
        "Labels",
        "collection"
    ],
    "properties": {
        "collectionSize": 1
    },
    "entities": [
        {
            "class": [
                "Label"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "labelName": "test"
            }
        }
    ],
```

```
"actions": [
    {
        "name": "add-label",
        "title": "Post Label ",
        "method": "POST",
        "href": "http://localhost:8080/label",
        "type": "application/json",
        "fields": [
            {
                "name": "labelName",
                "type": "text"
            }
        ]
    },
    {
        "name": "remove-label",
        "title": "Delete Label ",
        "method": "DELETE",
        "href": "http://localhost:8080/label",
        "type": "application/json",
        "fields": [
            {
                "name": "labelName",
                "type": "text"
            }
        ]
    }
],
    "links": [
        {
            "rel": [
                "self"
            ],
            "href": "http://localhost:8080/label"
        }
    ]
}
```

- POST /project/:name/issue/:id/issuelabel

Headers:

  o Authorization: Basic <credentials>
  o Content-Type: application/json

Path variable:

- o   Name: name, Type: String
- o   Name: id, Type: Int

Body:

```
{
    "projectName": "daw",
    "labelName": "Example"
}
```

Response:

- o   Success:

    Status code: 201

    Message: String

- DELETE /project/:name/issue/:id/issuelabel

    Headers:

    - o   Authorization: Basic <credentials>
    - o   Content-Type: application/json

    Path variable:

    - o   Name: name, Type: String
    - o   Name: id, Type: Int

    Body:

```json
{
    "labelName": "Example"
}
```

Response:

o   Success:

Status code: 204

Message: String

NextState

- GET /project/:name/state/:statename/next

Headers:

- o   Authorization: Basic <credentials>

Path variable:

- o   Name: name, Type: String
- o   Name: statename, Type: String

Response:

- o   Success:

    Status code: 200

```json
{
    "class": [
        "NextState",
        "collection"
    ],
    "properties": {
        "projectName": "daw",
        "stateName": "open",
        "collectionSize": 3
    },
    "entities": [
        {
            "class": [
                "Project-Label"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "projectName": "daw",
                "stateName": "open",
                "nextState": "closed"
            }
        },
```

```json
    {
        "class": [
            "Project-Label"
        ],
        "rel": [
            "item"
        ],
        "properties": {
            "projectName": "daw",
            "stateName": "open",
            "nextState": "open"
        }
    },
    {
        "class": [
            "Project-Label"
        ],
        "rel": [
            "item"
        ],
        "properties": {
            "projectName": "daw",
            "stateName": "open",
            "nextState": "Teste"
        }
    }
],
```

```
    "actions": [
        {
            "name": "add-nextstate",
            "title": "Post Next State",
            "method": "POST",
            "href": "http://localhost:8080/project/daw/state/open/next",
            "type": "application/json",
            "fields": [
                {
                    "name": "nextState",
                    "type": "text"
                }
            ]
        }
    ],
    "links": [
        {
            "rel": [
                "self"
            ],
            "href": "http://localhost:8080/project/daw/state/open/next"
        }
    ]
}
```

- POST /project/:name/state/:statename/next

Headers:

- o Authorization: Basic <credentials>
- o Content-Type: application/json

Path variable:

- o Name: name, Type: String
- o Name: statename, Type: String

Body:

```
{
    "nextState": "Teste"
}
```

Response:

o   Success:

Status code: 201

Message: String

Comment

- GET /project/:name/issue/:id/comment

    Headers:

    - o   Authorization: Basic <credentials>

    Path variable:

    - o   Name: name, Type: String
    - o   Name: id, Type: Int

    Response:

    - o   Success:

        Status code: 200

```
{
    "class": [
        "Comments"
    ],
    "properties": {
        "projectName": "daw",
        "issueId": 1,
        "collectionSize": 1
    },
    "entities": [
        {
            "class": [
                "Comment"
            ],
            "rel": [
                "item"
            ],
            "properties": {
                "projectName": "daw",
                "issueId": 1,
                "id": 1,
                "text": "comment1 bla",
                "date": "2021-04-24 05:11:28.365921+01"
            },
            "links": [
                {
                    "rel": [
                        "self"
                    ],
                    "href": "http://localhost:8080/project/daw/issue/1/comment/1"
                }
            ]
        }
```

```json
    ],
    "actions": [
        {
            "name": "add-comment",
            "title": "Post Comment",
            "method": "POST",
            "href": "http://localhost:8080/project/daw/issue/1/comment",
            "type": "application/json",
            "fields": [
                {
                    "name": "text",
                    "type": "text"
                }
            ]
        },
        {
            "name": "remove-comment",
            "title": "Delete Comment",
            "method": "DELETE",
            "href": "http://localhost:8080/project/daw/issue/1/comment",
            "type": "application/json",
            "fields": [
                {
                    "name": "id",
                    "type": "text"
                }
            ]
        }
    ],

    "links": [
        {
            "rel": [
                "self"
            ],
            "href": "http://localhost:8080/project/daw/issue/1/comment"
        }
    ]
}
```

- GET /project/:name/issue/:idissue/comment

Headers:

- o Authorization: Basic <credentials>

Path variable:

- o Name: name, Type: String
- o Name: idissue, Type: Int
- o Name: idcomment, Type: Int

Response:

- o Success:

Status code: 200

```
{
    "class": [
        "comment"
    ],
    "properties": {
        "projectName": "daw",
        "issueId": 1,
        "id": 1,
        "text": "comment1 bla",
        "date": "2021-04-24 05:11:28.365921+01"
    },
    "links": [
        {
            "rel": [
                "self"
            ],
            "href": "http://localhost:8080/project/daw/issue/1/comment/1"
        }
    ]
}
```

- POST /project/:name/issue/:id/comment

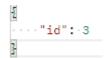 **Headers**:

  - Authorization: Basic <credentials>
  - Content-Type: application/json

  Path variable:

  - Name: name, Type: String
  - Name: idissue, Type: Int

  Body:

  ```json
  {
      "text": "This is a comment"
  }
  ```

  Response:

  - Success:

    Status code: 201

    Message: String

- DELETE /project/:name/issue/:id/comment

  Headers:

  - Authorization: Basic <credentials>
  - Content-Type: application/json

  Path variable:

  - Name: name, Type: String
  - Name: idissue, Type: Int
  - Name: idcomment, Type: Int

Body:

```
{
    "id": 3
}
```

Response:

- o Success:

  Status code: 204

  Message: String

Errors:

- GET /collaborator/:name

Error codes: 404, 500

- Inserção de collaborator não existente

```
{
   "type": "DomainNotFoundException",
   "title": "Domain not found Exception",
   "detail": "Collaboratorr tytr not found.",
   "status": 404
}
```

- GET /collaborator

Error code: 500

- Exceção default, que indicará problemas de conexão

```
{
   "type": "DbAccessException",
   "title": "Problems with the DB Access",
   "detail": "Problems with connection to the db in GetAll.",
   "status": 500
}
```

- POST /collaborator

Error codes: 409, 500

- Inserção de um collaborator com chave duplicada

```
{
   "type": "KeyViolationException",
   "title": "This key is already in use",
   "detail": "DUPLICATED KEY -> rui",
   "status": 409
```

}

- DELETE/collaborator

Error codes: 404, 500

- Delete de um collaborator não existente

```json
{
  "type": "DomainNotFoundException",
  "title": "Domain not found Exception",
  "detail": "The state -> testeDoArchived2 wasn't found",
  "status": 404
}
```

- POST /project/:name/projectState

- passando um :name que não existe em Project ou um stateName que não existe em State no body

Body:

```
{
    stateName: String
}
```

```json
{
  "type": "ForeignKeyException",
  "title": "Problems with foreign key(s)",
  "detail": "Foreign key exception in postProjectState",
  "status": 409
}
```