1

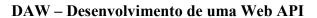


Desenvolvimento de Aplicações Web

Desenvolvimento de uma Web API



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Model

Database entity model:

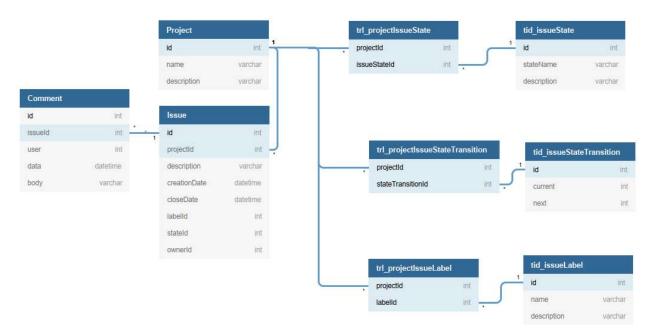


FIGURA 1 - MODELO BASE DE DADOS

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Vocabulary

Project – resource that represents a long time running activity.

Issue - resource that represents a task that needs to be done in the context of a Project.

Comment – resource that consists in a text associated to the Issue.

IssueState – resource that defines the state that the Issue resource can have.

IssueStateTransition – resource used to define the possible issue state transitions.

IssueLabel – resource used in the characterization of an issue.

ProjectIssueState – resource that defines the possible IssueStates that every Issue of a certain Project can have

ProjectIssueLabel - resource that defines the possible IssueLabels that every Issue of a certain Project can have

ProjectIssueStateTransition - resource that defines the possible IssueStateTransitions that every Issue of a certain Project can have

ProjectId – unique identifier of a Project

Project.name – text that characterizes a Project

Project.description – text that describes a Project

IssueId – unique identifier of an Issue

Issue.projectId – references the Project from where the current Issue is a part

Issue.description – text that describes the Issue

Issue.creationDate – the date and time when the Issue was created.

Issue.closeDate – the date and time when the IssueState is set to closed

Issue.stateId – the identifier of the IssueState that characterizes the current Issue ate the present moment.

Issue.labelId – the identifier of the IssueLabel that is associated to the current Issue.

Issue.ownerId – the identifier of the user who created the current Issue.

CommentId – unique identifier of a Comment resource.

Comment.IssueId – identifier of the Issue from where the current Comment is a part.

Comment. user – identifier of the user that created the Comment.

Comment. date – the date and time when the Comment was created.

Comment.body – text that consists of an appreciation about the Issue, this is, the comment it self

IssueStateId – unique identifier of an IssueState.

IssueState.StateName - name associated to an IssueState.

IssueState.description – text that describes an IssueState.

IssueStateTransitionId – unique identifier of an IssueStateTransition.

IssueStateTransition.current – identifies the initial IssueState of the transition.



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IssueStateTransition.next – identifies the final IssueState of the transition.

IssueLabelId – unique identifier of an IssueLabel.

IssueLabel.name – name associated to the IssueLabel.

IssueLabel.description – text used to describe the IssueLabel.

AddIssue – defines the action of creating a new Issue resource associated to a Project.

UpdateIssue - defines the action of changing an existing Issue resource associated to a Project.

DeleteIssue - defines the action of removing an existing Issue resource associated to a Project.

AddComment – defines the action of creating a new Comment resource associated to an Issue.

UpdateComment - defines the action of changing an existing Comment resource associated to an Issue.

DeleteComment - defines the action of removing an existing Comment resource associated to an Issue.

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Routes

Project

GET /api/project/{projectId}

Gets the siren+json hypermedia representation of the Project resource identified by projectId.

REQUEST MESSAGE:

Method	URI
GET	/api/project/{projectId}

Path parameters

Name	Туре	Required
projectId	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	

Name	Value
Content-Type	application/vnd.siren+json



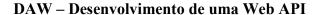
Response Body

```
"class": [
  "project"
],
"properties": {
  "$siren4j.class": "pt.ipl.isel.leic.daw.project.model.output.ProjectOutputModel",
  "name": "Project1 name",
  "id": 25,
  "description": "Project1 description"
},
"actions": [
     "name": "AddIssue",
     "method": "POST",
     "href": "/api/project/25/issue/",
     "type": "application/x-www-form-urlencoded",
     "fields": [
       {
          "name": "issueid",
          "type": "NUMBER",
          "required": true
       },
          "name": "projectid",
          "type": "NUMBER",
          "required": true
       },
          "name": "issueDescription",
          "type": "TEXT",
          "required": true
       },
```



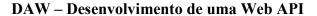


```
"name": "creationDate",
    "type": "DATETIME",
    "required": true
  },
    "name": "labelId",
    "type": "NUMBER",
    "required": true
  },
    "name": "ownerId",
    "type": "NUMBER",
    "required": true
  },
    "name": "stateId",
    "type": "NUMBER",
    "required": true
"name": "UpdateIssue",
"method": "PUT",
"href": "/api/project/25/issue/{issueid}/",
"type": "application/x-www-form-urlencoded",
"fields": [
  {
    "name": "issueid",
    "type": "NUMBER",
    "required": true
  },
    "name": "projectid",
    "type": "NUMBER",
    "required": true
```





```
"name": "issueDescription",
    "type": "TEXT",
    "required": true
  },
    "name": "creationDate",
    "type": "DATETIME",
    "required": true
  },
    "name": "closeDate",
    "type": "DATETIME",
    "required": true
  },
    "name": "labelId",
    "type": "NUMBER",
    "required": true
    "name": "ownerId",
    "type": "NUMBER",
    "required": true
  },
    "name": "stateId",
    "type": "NUMBER",
    "required": true
"name": "DeleteIssue",
"method": "DELETE",
```





```
"href": "/api/project/25/issue/{issueid}/",
     "type": "application/x-www-form-urlencoded",
     "fields": [
          "name": "issueid",
          "type": "NUMBER",
          "required": true
          "name": "projectid",
          "type": "NUMBER",
          "required": true
],
"links": [
     "rel": [
       "self"
    ],
     "href": "/api/project/25/"
  },
     "rel": [
       "issues"
     "href": "/api/project/25/issue/"
```



ERROR RESPONSE MESSAGE:

Possible status code

Status
400
401
404
500

Response Headers

Name	Value
Content-Type	application/problem+json

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GET /api/project

Gets the json representation of the collection of Project resource.

REQUEST MESSAGE:

Method	URI
GET	/api/project

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Response Headers

Name	Value
Content-Type	application/vnd.siren+json

Response Body

(add JSON)

ERROR RESPONSE MESSAGE:



Possible status code

Status	
400	
401	
404	
500	

Name	Value
Content-Type	application/problem+json



POST /api/project

Creates a new Project resource from the json representation.

REQUEST MESSAGE:

Method	URI
POST	/api/project

Request Headers

Name	Value
Content-Type	application/json
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

Request body

```
{
    "name": "Project1 name",
    "description": "Project1 description"
}
```

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
201	

Name	Value
Content-Type	application/vnd.siren+json



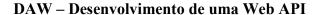
Response Body

```
"class": [
  "project"
],
"properties": {
  "$siren4j.class": "pt.ipl.isel.leic.daw.project.model.output.ProjectOutputModel",
  "name": "Project1 name",
  "id": 25,
  "description": "Project1 description"
},
"actions": [
     "name": "AddIssue",
     "method": "POST",
     "href": "/api/project/25/issue/",
     "type": "application/x-www-form-urlencoded",
     "fields": [
          "name": "issueid",
          "type": "NUMBER",
         "required": true
       },
         "name": "projectid",
         "type": "NUMBER",
         "required": true
       },
          "name": "issueDescription",
         "type": "TEXT",
          "required": true
       },
          "name": "creationDate",
```



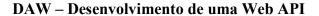


```
"type": "DATETIME",
     "required": true
  },
     "name": "labelId",
    "type": "NUMBER",
     "required": true
     "name": "ownerId",
     "type": "NUMBER",
     "required": true
  },
     "name": "stateId",
     "type": "NUMBER",
    "required": true
1
"name": "UpdateIssue",
"method": "PUT",
"href": "/api/project/25/issue/{issueid}/",
"type": "application/x-www-form-urlencoded",
"fields": [
    "name": "issueid",
    "type": "NUMBER",
     "required": true
  },
    "name": "projectid",
    "type": "NUMBER",
     "required": true
  },
```





```
"name": "issueDescription",
    "type": "TEXT",
    "required": true
    "name": "creationDate",
    "type": "DATETIME",
    "required": true
  },
    "name": "closeDate",
    "type": "DATETIME",
    "required": true
    "name": "labelId",
    "type": "NUMBER",
    "required": true
  },
    "name": "ownerId",
    "type": "NUMBER",
    "required": true
  },
    "name": "stateId",
    "type": "NUMBER",
    "required": true
"name": "DeleteIssue",
"method": "DELETE",
"href": "/api/project/25/issue/{issueid}/",
```





```
"type": "application/x-www-form-urlencoded",
     "fields": [
        {
          "name": "issueid",
          "type": "NUMBER",
          "required": true
       },
          "name": "projectid",
          "type": "NUMBER",
          "required": true
       }
],
"links": [
   {
     "rel": [
       "self"
     "href": "/api/project/25/"
     "rel": [
       "issues"
     "href": "/api/project/25/issue/"
]
```



ERROR RESPONSE MESSAGE:

Possible status code

Status	
400	
401	
404	
500	

Response Headers

Name	Value
Content-Type	application/problem+json

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PUT /api/project/{projectId}

Updates the Project resource identified by projecteId, from the json representation.

REQUEST MESSAGE:

Method	URI
PUT	/api/project/{projectId}

Path parameters

Name	Туре	Required
projectId	integer	true

Request Headers

Name	Value
Content-Type	application/json
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

Request body

```
{
    "name": "Project1 new name",
    "description": "Project1 new description"
}
```

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Name	Value
Content-Type	application/vnd.siren+json



Response Body

```
"class": [
  "project"
],
"properties": {
  "$siren4j.class": "pt.ipl.isel.leic.daw.project.model.output.ProjectOutputModel",
  "name": "Project1 new name",
  "id": 25,
  "description": "Project1 new description"
},
"actions": [
    "name": "AddIssue",
    "method": "POST",
    "href": "/api/project/25/issue/",
    "type": "application/x-www-form-urlencoded",
    "fields": [
         "name": "issueid",
         "type": "NUMBER",
         "required": true
       },
         "name": "projectid",
         "type": "NUMBER",
         "required": true
       },
         "name": "issueDescription",
         "type": "TEXT",
         "required": true
       },
         "name": "creationDate",
```



```
"type": "DATETIME",
     "required": true
  },
     "name": "labelId",
    "type": "NUMBER",
     "required": true
     "name": "ownerId",
     "type": "NUMBER",
     "required": true
  },
     "name": "stateId",
     "type": "NUMBER",
    "required": true
1
"name": "UpdateIssue",
"method": "PUT",
"href": "/api/project/25/issue/{issueid}/",
"type": "application/x-www-form-urlencoded",
"fields": [
    "name": "issueid",
    "type": "NUMBER",
     "required": true
  },
    "name": "projectid",
    "type": "NUMBER",
     "required": true
  },
```





```
"name": "issueDescription",
    "type": "TEXT",
    "required": true
    "name": "creationDate",
    "type": "DATETIME",
    "required": true
  },
    "name": "closeDate",
    "type": "DATETIME",
    "required": true
    "name": "labelId",
    "type": "NUMBER",
    "required": true
  },
    "name": "ownerId",
    "type": "NUMBER",
    "required": true
  },
    "name": "stateId",
    "type": "NUMBER",
    "required": true
"name": "DeleteIssue",
"method": "DELETE",
"href": "/api/project/25/issue/{issueid}/",
```

25



```
"type": "application/x-www-form-urlencoded",
     "fields": [
        {
          "name": "issueid",
          "type": "NUMBER",
          "required": true
       },
          "name": "projectid",
          "type": "NUMBER",
          "required": true
       }
],
"links": [
   {
     "rel": [
       "self"
     "href": "/api/project/25/"
     "rel": [
       "issues"
     "href": "/api/project/25/issue/"
```

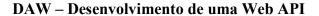
ERROR RESPONSE MESSAGE:



Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json





DELETE /api/project/{projectId}

Removes the Project resource identified by projectId.

REQUEST MESSAGE:

Method	URI
DELETE	/api/project/{projectId}

Path parameters

Name	Туре	Required
projectId	integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Response Headers

Name	Value
Content-Type	application/vnd.siren+json

ERROR RESPONSE MESSAGE:



Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



Issue

GET /api/project/{projectId}/issue/{issueId}

Gets the siren+json hypermedia representation of the Issue resource identified by issueId.

REQUEST MESSAGE:

Method	URI
GET	/api/project/{projectId}/issue/{issueId}

Path parameters

Name	Туре	Required
projectId	integer	true
issueId	integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
Status
200
200

Name	Value
Content-Type	application/vnd.siren+json



Response Body

```
"class": [
  "issue"
],
"properties": {
  "$siren4j.class": "pt.ipl.isel.leic.daw.project.model.output.IssueOutputModel",
  "description": "Issue Description",
  "projectId": 25,
  "issueId": 41,
  "ownerId": 12,
  "creationDate": "2019-03-31T15:00:00",
  "closeDate": null,
  "stateId": 1,
  "labelId": 1
},
"actions": [
    "name": "DeleteComment",
    "method": "DELETE",
    "href": "/api/project/25/issue/41/comment/{commentId}",
    "type": "application/x-www-form-urlencoded",
    "fields": [
         "name": "commentId",
         "type": "NUMBER",
         "required": true
  },
    "name": "AddComment",
    "method": "POST",
    "href": "/api/project/25/issue/41/comment",
     "type": "application/x-www-form-urlencoded",
```



```
"fields": [
    "name": "commentId",
    "type": "NUMBER",
    "required": true
  },
    "name": "issueId",
    "type": "NUMBER",
    "required": true
  },
    "name": "userId",
    "type": "NUMBER",
    "required": true
  },
    "name": "date",
    "type": "DATETIMELOCAL",
    "required": true
    "name": "body",
    "type": "TEXT",
    "required": true
]
"name": "UpdateComment",
"method": "PUT",
"href": "/api/project/25/issue/41/comment/{commentId}",
"type": "application/x-www-form-urlencoded",
"fields": [
    "name": "commentId",
```



```
"type": "NUMBER",
         "required": true
       },
         "name": "issueId",
         "type": "NUMBER",
         "required": true
         "name": "userId",
         "type": "NUMBER",
         "required": true
       },
         "name": "date",
         "type": "DATETIMELOCAL",
         "required": true
       },
         "name": "body",
         "type": "TEXT",
         "required": true
],
"links": [
    "rel": [
       "self"
    ],
    "href": "/api/project/25/issue/41"
  },
    "rel": [
       "comment"
```





```
],
"href": "/api/project/{projectId/issue/{issueId}/comment/"
}
]
```

ERROR RESPONSE MESSAGE:

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



GET /api/project/{projectId}/issue

Gets the json representation of the collection of Issue resources of the Project resource identified by projectId.

REQUEST MESSAGE:

Method	URI
GET	/api/project/{projectId}/issue

Path parameters

Name	Туре	Required
projectId	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Response Headers

Name	Value
Content-Type	application/vnd.siren+json

Response Body

(add JSON)

ERROR RESPONSE MESSAGE:



Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



POST /api/project/{projectId}/issue/

Creates a new Issue resource for the Project resource identified by projectId, from the json representation.

REQUEST MESSAGE:

Method	URI
POST	/api/project/{projectId}/issue/

Path parameters

Name	Туре	Required
projectId	Integer	true

Request Headers

Name	Value
Content-Type	application/json
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

Request body

```
{
    "description": "Issue Description",
    "creationdate": "2019-03-31T15:00:00",
    "labelid": "1",
    "stateid": "1",
    "ownerid": "12"
}
```

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
201



Response Headers

Name	Value
Content-Type	application/vnd.siren+json

Response Body "class": ["issue"], "properties": { "\$siren4j.class": "pt.ipl.isel.leic.daw.project.model.output.IssueOutputModel", "description": "Issue Description", "projectId": 25, "issueId": 41, "ownerId": 12, "creationDate": "2019-03-31T15:00:00", "closeDate": null, "stateId": 1, "labelId": 1 **}**, "actions": ["name": "DeleteComment", "method": "DELETE", "href": "/api/project/25/issue/41/comment/{commentId}", "type": "application/x-www-form-urlencoded", "fields": [{ "name": "commentId", "type": "NUMBER", "required": true



```
"name": "AddComment",
"method": "POST",
"href": "/api/project/25/issue/41/comment",
"type": "application/x-www-form-urlencoded",
"fields": [
    "name": "commentId",
    "type": "NUMBER",
    "required": true
  },
    "name": "issueId",
    "type": "NUMBER",
    "required": true
  },
    "name": "userId",
    "type": "NUMBER",
    "required": true
  },
    "name": "date",
    "type": "DATETIMELOCAL",
    "required": true
  },
    "name": "body",
    "type": "TEXT",
    "required": true
"name": "UpdateComment",
"method": "PUT",
"href": "/api/project/25/issue/41/comment/{commentId}",
```



```
"type": "application/x-www-form-urlencoded",
     "fields": [
       {
         "name": "commentId",
         "type": "NUMBER",
         "required": true
       },
         "name": "issueId",
         "type": "NUMBER",
         "required": true
       },
         "name": "userId",
         "type": "NUMBER",
         "required": true
       },
         "name": "date",
         "type": "DATETIMELOCAL",
         "required": true
       },
         "name": "body",
         "type": "TEXT",
         "required": true
    ]
],
"links": [
     "rel": [
       "self"
     "href": "/api/project/25/issue/41"
```



```
},
{
    "rel": [
        "comment"
    ],
        "href": "/api/project/{projectId/issue/{issueId}/comment/"
    }
]
```

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



PUT /api/project/{projectId}/issue/{issueId}

Updates the Issue resource identified by issueId, from the json representation.

REQUEST MESSAGE:

Method	URI	
PUT	/api/project/{projectId}/issue/{issuestateid}	

Path parameters

Name	Туре	Required
projectId	integer	true
issuestateid	integer	true

Request Headers

Name	Value	
Content-Type	application/json	
Authorization	Basic <credentials></credentials>	
Accept	application/vnd.siren+json, application/problem+json	

Request body

```
{
    "description": "Issue new Description",
    "creationdate": "2019-03-31T15:00:00",
    "labelid": "2",
    "stateid": "2",
    "ownerid": "12"
}
```

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200



Name	Value
Content-Type	application/vnd.siren+json

```
Response Body
  "class": [
    "issue"
  ],
  "properties": {
    "$siren4j.class": "pt.ipl.isel.leic.daw.project.model.output.IssueOutputModel",
    "description": "Issue new Description",
    "projectId": 25,
    "issueId": 41,
    "ownerId": 12,
    "creationDate": "2019-03-31T15:00:00",
    "closeDate": null,
    "stateId": 2,
    "labelId": 2
  },
  "actions": [
       "name": "DeleteComment",
       "method": "DELETE",
       "href": "/api/project/25/issue/41/comment/{commentId}",
       "type": "application/x-www-form-urlencoded",
       "fields": [
          {
            "name": "commentId",
            "type": "NUMBER",
            "required": true
```



```
"name": "AddComment",
"method": "POST",
"href": "/api/project/25/issue/41/comment",
"type": "application/x-www-form-urlencoded",
"fields": [
    "name": "commentId",
    "type": "NUMBER",
    "required": true
  },
    "name": "issueId",
    "type": "NUMBER",
    "required": true
  },
    "name": "userId",
    "type": "NUMBER",
    "required": true
  },
    "name": "date",
    "type": "DATETIMELOCAL",
    "required": true
  },
    "name": "body",
    "type": "TEXT",
    "required": true
"name": "UpdateComment",
"method": "PUT",
"href": "/api/project/25/issue/41/comment/{commentId}",
```



```
"type": "application/x-www-form-urlencoded",
     "fields": [
       {
         "name": "commentId",
         "type": "NUMBER",
         "required": true
       },
         "name": "issueId",
         "type": "NUMBER",
         "required": true
       },
         "name": "userId",
         "type": "NUMBER",
         "required": true
       },
         "name": "date",
         "type": "DATETIMELOCAL",
         "required": true
       },
         "name": "body",
         "type": "TEXT",
         "required": true
    ]
],
"links": [
     "rel": [
       "self"
     "href": "/api/project/25/issue/41"
```



```
},
{
    "rel": [
        "comment"
    ],
        "href": "/api/project/{projectId/issue/{issueId}/comment/"
    }
]
```

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json





DELETE /api/project/{projectId}/issue/{issueId}

Removes the Issue resource identified by issueId.

REQUEST MESSAGE:

Method	URI	
DELETE	/api/project/{projectId}/issue/{issuestateid}	

Path parameters

Name	Туре	Required
projectId	integer	true
issuestateid	integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	

Response Headers

Name	Value
Content-Type	application/json

Response Body

(add JSON)

ERROR RESPONSE MESSAGE:



Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



Comment

GET /api/project/{projectId}/issue/{issueId}/comment/{commentId}

Gets the siren+json hypermedia representation of the Comment resource identified by commentId.

REQUEST MESSAGE:

Method	URI
GET	/api/project/{projectId}/issue/{issueId}/comment/{commentId}

Path parameters

Name	Туре	Required
projectId	integer	true
issueId	integer	true
commentId	integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Name	Value
Content-Type	application/vnd.siren+json



Response Body

```
"class": [
  "comment"
],
"properties": {
  "$siren4j.class": "pt.ipl.isel.leic.daw.project.model.output.CommentOutputModel",
  "owner": 1,
  "date": "2019-04-05T00:00:00",
  "body": "test test test",
  "commentId": 16,
  "issueId": 41
},
"actions": [
     "name": "DeleteComment",
     "method": "PUT",
     "href": "/api/project/{projectId}/issue/41/comment/16",
     "type": "application/x-www-form-urlencoded",
     "fields": [
         "name": "projectId",
         "type": "NUMBER",
         "required": true
         "name": "issueId",
         "type": "NUMBER",
         "required": true
       },
         "name": "commentId",
         "type": "NUMBER",
         "required": true
       }
```



```
"name": "AddComment",
"method": "POST",
"href": "/api/comment/api/project/{projectId}/issue/41/comment",
"type": "application/x-www-form-urlencoded",
"fields": [
    "name": "projectId",
    "type": "NUMBER",
    "required": true
  },
    "name": "issueId",
    "type": "NUMBER",
    "required": true
  },
    "name": "creationDate",
    "type": "DATETIMELOCAL",
    "required": true
  },
    "name": "ownerId",
    "type": "NUMBER",
    "required": true
  },
    "name": "body",
    "type": "TEXT",
    "required": true
```





```
"name": "UpdateComment",
"method": "PUT",
"href": "/api/project/{projectId}/issue/41/comment/16",
"type": "application/x-www-form-urlencoded",
"fields": [
    "name": "projectId",
    "type": "NUMBER",
    "required": true
  },
    "name": "issueId",
    "type": "NUMBER",
    "required": true
  },
    "name": "creationDate",
    "type": "DATETIMELOCAL",
    "required": true
  },
    "name": "ownerId",
    "type": "NUMBER",
    "required": true
  },
    "name": "commentId",
    "type": "NUMBER",
    "required": true
  },
    "name": "body",
    "type": "TEXT",
    "required": true
```



```
"links": [
  {
     "rel": [
       "self"
     "href": "/api/project/{projectId}/issue/41/comment/16"
```

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+ison



DAW - Desenvolvimento de uma Web API

GET /api/project/{projectId}/issue/{issueId}/comment

Gets the json representation of the collection of Comment resources for the Issue resource identified by <u>issueId</u>.

REQUEST MESSAGE:

Method	URI
GET	/api/project/{projectId}/issue/{issueId}/comment

Path parameters

Name	Туре	Required
projectId	Integer	true
issueId	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/json, application/problem+json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	

Response Headers

Name	Value
Content-Type	application/json

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Response Body

(add JSON)

ERROR RESPONSE MESSAGE:

Possible status code

Status	
400	
401	
404	
500	

Response Headers

Name	Value
Content-Type	application/problem+json

Fábio Parreirinha N°39329 Daniel Cabral N°40569 André Mauro N°37832



POST /api/project/{projectId}/issue/{issueId}/comment

Creates a new Comment resource for the Issue resource identified by issueId, from the json representation.

REQUEST MESSAGE:

Method	URI
POST	/api/project/{projectId}/issue/{issueId}/comment

Path parameters

Name	Туре	Required
projectId	Integer	true
issueId	Integer	true

Request Headers

Name	Value
Content-Type	application/json
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

Request body

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
201



Name	Value
Content-Type	application/vnd.siren+json

```
Response Body
  "class": [
    "comment"
  ],
  "properties": {
    "$siren4j.class": "pt.ipl.isel.leic.daw.project.model.output.CommentOutputModel",
    "owner": 1,
    "date": "2019-04-05T00:00:00",
    "body": "test test test",
    "commentId": 16,
    "issueId": 41
  },
  "actions": [
       "name": "DeleteComment",
       "method": "PUT",
       "href": "/api/project/{projectId}/issue/41/comment/16",
       "type": "application/x-www-form-urlencoded",
       "fields": [
            "name": "projectId",
            "type": "NUMBER",
            "required": true
         },
            "name": "issueId",
            "type": "NUMBER",
            "required": true
         },
```





```
"name": "commentId",
      "type": "NUMBER",
      "required": true
},
  "name": "AddComment",
  "method": "POST",
  "href": "/api/comment/api/project/{projectId}/issue/41/comment",
  "type": "application/x-www-form-urlencoded",
  "fields": [
      "name": "projectId",
      "type": "NUMBER",
      "required": true
    },
      "name": "issueId",
      "type": "NUMBER",
      "required": true
    },
      "name": "creationDate",
      "type": "DATETIMELOCAL",
      "required": true
      "name": "ownerId",
      "type": "NUMBER",
      "required": true
    },
      "name": "body",
      "type": "TEXT",
      "required": true
```



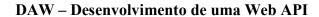
```
"name": "UpdateComment",
"method": "PUT",
"href": "/api/project/{projectId}/issue/41/comment/16",
"type": "application/x-www-form-urlencoded",
"fields": [
    "name": "projectId",
    "type": "NUMBER",
    "required": true
  },
    "name": "issueId",
    "type": "NUMBER",
    "required": true
  },
    "name": "creationDate",
    "type": "DATETIMELOCAL",
    "required": true
  },
    "name": "ownerId",
    "type": "NUMBER",
    "required": true
  },
    "name": "commentId",
    "type": "NUMBER",
    "required": true
    "name": "body",
```



Possible status code

Status	
400	
401	
404	
500	

Name	Value
Content-Type	application/problem+json





PUT /api/project/{projectId}/issue/{issueId}/comment/{commentId}

Updates the Comment resource identified by commentId, from the json representation.

REQUEST MESSAGE:

Method	URI
PUT	/api/project/{projectId}/issue/{issueId}/comment/{commentId}

Path parameters

Name	Туре	Required
projectId	Integer	true
issueId	Integer	true
commentId	Integer	true

Request Headers

Name	Value
Content-Type	application/json
Authorization	Basic <credentials></credentials>
Accept	application/vnd.siren+json, application/problem+json

Request body

```
{
    "_user": "1",
    "_date": "2019-04-05T00:00:00",
    "body": "new comment"
}
```

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	



Name	Value
Content-Type	application/vnd.siren+json

```
Response Body
  "class": [
    "comment"
  ],
  "properties": {
    "$siren4j.class": "pt.ipl.isel.leic.daw.project.model.output.CommentOutputModel",
    "owner": 1,
    "date": "2019-04-05T00:00:00",
    "body": "new comment",
    "commentId": 16,
    "issueId": 41
  },
  "actions": [
       "name": "DeleteComment",
       "method": "PUT",
       "href": "/api/project/{projectId}/issue/41/comment/16",
       "type": "application/x-www-form-urlencoded",
       "fields": [
            "name": "projectId",
            "type": "NUMBER",
            "required": true
         },
            "name": "issueId",
            "type": "NUMBER",
            "required": true
         },
```





```
"name": "commentId",
      "type": "NUMBER",
      "required": true
},
  "name": "AddComment",
  "method": "POST",
  "href": "/api/comment/api/project/{projectId}/issue/41/comment",
  "type": "application/x-www-form-urlencoded",
  "fields": [
      "name": "projectId",
      "type": "NUMBER",
      "required": true
    },
      "name": "issueId",
      "type": "NUMBER",
      "required": true
    },
      "name": "creationDate",
      "type": "DATETIMELOCAL",
      "required": true
      "name": "ownerId",
      "type": "NUMBER",
      "required": true
    },
      "name": "body",
      "type": "TEXT",
      "required": true
```



```
"name": "UpdateComment",
"method": "PUT",
"href": "/api/project/{projectId}/issue/41/comment/16",
"type": "application/x-www-form-urlencoded",
"fields": [
    "name": "projectId",
    "type": "NUMBER",
    "required": true
  },
    "name": "issueId",
    "type": "NUMBER",
    "required": true
  },
    "name": "creationDate",
    "type": "DATETIMELOCAL",
    "required": true
  },
    "name": "ownerId",
    "type": "NUMBER",
    "required": true
  },
    "name": "commentId",
    "type": "NUMBER",
    "required": true
    "name": "body",
```



Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+ison



DAW – Desenvolvimento de uma Web API

DELETE /api/project/{projectId}/issue/{issueId}/comment/{commentId}

Removes the Comment resource identified by commentId.

REQUEST MESSAGE:

Method	URI
DELETE	/api/project/{projectId}/issue/{issueId}/comment/{commentId}

Path parameters

Name	Туре	Required
projectId	Integer	true
issueId	Integer	true
commentId	Integer	true

Request Headers

Name	Value
Authorization	Basic < credentials >

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	

Response Headers

Name	Value
Content-Type	application/json

Response Body

(add JSON)

ERROR RESPONSE MESSAGE:



Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



IssueState

GET /api/issueState/{issueStateId}

Gets the json representation of the IssueState resource identified by issueStateId.

REQUEST MESSAGE:

Method	URI
GET	/api/issueState/{issueStateId}

Path parameters

Name	Туре	Required
issueStateId	integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	

Name	Value
Content-Type	application/json



Response Body

```
{
  "issuestateid": 1,
  "stateName": "new",
  "stateDescription": "new issue"
}
```

ERROR RESPONSE MESSAGE:

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



GET /api/issueState

Gets the json representation of the collection of available IssueState resources.

REQUEST MESSAGE:

Method	URI
GET	/api/issueState

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	

Response Headers

Name	Value
Content-Type	application/json

Response Body

```
"issuestateid": 1,
    "stateName": "new",
    "stateDescription": "new issue"
},
{
    "issuestateid": 2,
    "stateName": "active",
```



```
"stateDescription": "issue is active"
},
{
    "issuestateid": 3,
    "stateName": "closed",
    "stateDescription": "closed issue"
},
{
    "issuestateid": 4,
    "stateName": "archived",
    "stateDescription": "archived issue"
}
]
```

Possible status code

Status
400
401
404
500

Response Headers

Name	Value
Content-Type	application/problem+json

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IssueStateTransition

GET /api/issueStateTransition/{issueStateTransitionId}

Gets the siren+json hypermedia representation of the IssueStateTransition resource identified by issueStateTransitionId.

REQUEST MESSAGE:

Method	URI
GET	/api/issueStateTransition/ {issueStateTransitionId}

Path parameters

Name	Туре	Required
issueStateTransitionId	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Response Headers

Name	Value
Content-Type	application/json

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Response Body

```
{
  "issuestatetransitionid": 1,
  "current": "1",
  "next": "2"
}
```

ERROR RESPONSE MESSAGE:

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



GET /api/issueStateTransition

Gets the json representation of the collection of available IssueStateTransition resources.

REQUEST MESSAGE:

Method	URI
GET	/api/issueStateTransition

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	Application/json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Response Headers

Name	Value
Content-Type	application/json

Response Body

```
"issuestatetransitionid": 1,
    "current": "1",
    "next": "2"
},
{
    "issuestatetransitionid": 2,
    "current": "2",
```



```
"next": "3"
},
{
    "issuestatetransitionid": 3,
    "current": "3",
    "next": "2"
},
{
    "issuestatetransitionid": 4,
    "current": "3",
    "next": "4"
}
```

ERROR RESPONSE MESSAGE:

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



IssueLabel

GET /api/issuelabel/{issueLabelId}

Gets the json representation of the IssueLabel resource identified by issueLabelId.

REQUEST MESSAGE:

Method	URI
GET	/api/issuelabel/{issueLabelId}

Path parameters

Name	Туре	Required
issueLabelId	Inter	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	Application/json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	

Name	Value
Content-Type	application/json



Response Body

```
{
  "issuelabelid": 1,
  "name": "defect",
  "description": "defect"
}
```

ERROR RESPONSE MESSAGE:

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



GET /api/issueLabel

Gets the json representation of the collection of available IssueLabel resources.

REQUEST MESSAGE:

Method	URI
GET	/api/issueLabel

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Response Headers

Name	Value
Content-Type	application/json

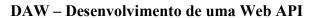
Response Body

JSON HERE

ERROR RESPONSE MESSAGE:

Possible status code

Status
400
401
404
500





Response Headers

Name	Value
Content-Type	application/problem+json

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ProjectIssueState

POST /api/project/{projectid}/issueState

Creates a new IssueState resource for the Project resource identified by projectId, from the json representation.

REQUEST MESSAGE:

Method	URI
POST	/api/project/{projectid}/issueState

Path parameters

Name	Туре	Required
projectid	Integer	true

Request Headers

Name	Value
Content-Type	application/json
Authorization	Basic <credentials></credentials>
Accept	application/json

Request body

```
{
    "issuestateid": "1"
}
```

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
201

Response Headers

Name	Value
Content-Type	application/json

79



Response Body

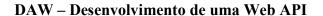
```
{
    "projectid": 13,
    "issuestateid": 1
}
```

ERROR RESPONSE MESSAGE:

Possible status code

Status	
400	
401	
404	•
500	

Name	Value
Content-Type	application/problem+json





GET /api/project/{projectid}/issueState

Gets the json representation of the collection of IssueState resources for the Project resource identified by projectId.

REQUEST MESSAGE:

Method	URI	
GET	/api/project/{projectid}/issueState	

Path parameters

Name	Туре	Required
Projected	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Response Headers

Name	Value
Content-Type	application/json

Response Body

(add JSON)



Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



DAW – Desenvolvimento de uma Web API

DELETE /api/project/{projectId}/issueState/{issueStateId}

Removes the IssueState resource identified by issueStateId for the Project resource identified by projectId.

REQUEST MESSAGE:

Method	URI
DELETE	/api/project/{projectid}/issueState/{issueStateId}

Path parameters

Name	Туре	Required
projectid	Integer	true
issueStateId	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	

Response Headers

Name	Value
Content-Type	application/json

Response Body

(add JSON)



Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



ProjectIssueStateTransition

POST /api/project/{projectid}/issueStateTransition

Creates a new IssueStateTransition resource for the Project resource identified by projectID, from the json representation.

REQUEST MESSAGE:

Method	URI
POST	/api/project/{projectid}/issueStateTransition

Path parameters

Name	Туре	Required
Projectid	Integer	true

Request Headers

Name	Value
Content-Type	application/json
Authorization	Basic <credentials></credentials>
Accept	application/json

Request body

```
{
    "statetransitionid": "1"
}
```

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
201

Name	Value
Content-Type	application/json



Response Body

```
{
   "projectid": 13,
   "statetransitionid": 1
}
```

ERROR RESPONSE MESSAGE:

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json





GET /api/project/{projectid}/issueStateTransition

Gets the json representation of the collection of IssueStateTransition resources for the Project resource identified by projectId.

REQUEST MESSAGE:

Method	URI
GET	/api/project/{projectid}/issueStateTransition

Path parameters

Name	Туре	Required
projectid	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	Ī
200	

Response Headers

Name	Value
Content-Type	application/json

Response Body

(add JSON)



Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



DAW – Desenvolvimento de uma Web API

DELETE /api/project/{projectId}/issueStateTransition/{issueStateTransitionId}

Removes the IssueStateTransition resource identified by issueStateTransitionId for the Project resource identified by projectId.

REQUEST MESSAGE:

Method	URI	
DELETE	/api/project/{projectid}/issueStateTransition/{issueStateTransitionId}	

Path parameters

Name	Туре	Required
projectid	Integer	true
issueStateTransitionId	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Response Headers

Name	Value
Content-Type	application/json

Response Body

(add JSON)



Status
400
401
404
500

Name	Value
Content-Type	application/problem+json



ProjectIssueLabel

POST /api/project/{projectid}/issueLabel

Creates a new IssueLabel resource for the Project resource identified by projectId, from the json representation.

REQUEST MESSAGE:

Method	URI
POST	/api/project/{projectid}/issueLabel

Path parameters

Name	Туре	Required
projectid	Integer	true

Request Headers

Name	Value
Content-Type	application/json
Authorization	Basic <credentials></credentials>
Accept	application/json

Request body

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
201

Name	Value
Content-Type	application/json



Response Body

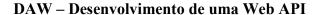
```
{
    "projectid": 13,
    "labelid": 1
}
```

ERROR RESPONSE MESSAGE:

Possible status code

Status
400
401
404
500

Name	Value
Content-Type	application/problem+json





GET /api/project/{projectid}/issueLabel

Gets the json representation of the collection of IssueLabel resources for the Project resource identified by projectId.

REQUEST MESSAGE:

Method	URI
GET	/api/project/{projectid}/issueLabel

Path parameters

Name	Туре	Required
projectid	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>
Accept	application/json

SUCCESS RESPONSE MESSAGE:

Possible status code

Status
200

Response Headers

Name	Value
Content-Type	application/json

Response Body

(add JSON)



Status	
400	
401	
404	
500	

Name	Value
Content-Type	application/problem+json



DAW – Desenvolvimento de uma Web API

DELETE /api/project/{projectId}/issueLabel/{issueLabelId}

Removes the IssueLabel resource identified by issueLabelId of the Project resource identified by projectId.

REQUEST MESSAGE:

Method	URI
DELETE	/api/project/{projectid}/issueLabel/{issueLabelId}

Path parameters

Name	Туре	Required
projectid	Integer	true
issueLabelId	Integer	true

Request Headers

Name	Value
Authorization	Basic <credentials></credentials>

Request body

(add JSON)

SUCCESS RESPONSE MESSAGE:

Possible status code

Status	
200	

Response Headers

Name	Value
Content-Type	application/json

Response Body

(add JSON)



ERROR RESPONSE MESSAGE:

Possible status code

Status	
400	
401	
404	
500	

Response Headers

Name	Value
Content-Type	application/problem+json

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