GET:

**GET /checklists** – retorna um collection+json de listas de um utilizador autenticado.

{

"collection": {

"version": "1.0",

        "href": "/checklists?page=0",

        "items": [

            {

"href": "/checklists/1",

"data": [

{"name": "checklist\_id", "value": 1, "prompt": "Checklist Id"},

{"name": "name", "value": "Lista 1", "prompt": "Name"},

{name": "completion\_date", "value": "2018-03-17T20:00",

"prompt": "Completion Date"},

{"name": "checklisttemplate\_id", "value": 5, "prompt": "Checklist Template Id"}

],

"links": [

{"rel": "items", "href": "/checklists/1/checklistitems"},

{"rel": "template", "href": "/checklisttemplates/5 "}

]

}

],

"links": [

{"rel": "next", "href": "/checklists?page=2"}

]

}

}

**GET /checklists/{checklist\_id}** – retorna um Siren com as informações de uma lista.

{

"class": ["checklist"],

"properties": {

"name": "Lista 1",

"completion\_date": "2018-10-04T20:00:00+00:00",

"checklist\_id": 1,

"checklisttemplate\_id": 5

},

"entities": [

{

"class": ["checklistitem"],

"rel": ["/checklists/1"],

"href": "/checklists/1/checklistitems"

},

{

"class": ["checklisttemplates"],

"rel": ["/checklisttemplates"],

"href": "/checklisttemplates/5"

}

],

"actions": [

{

"name": "add-checklistitem",

"title": "Add Checklist Item",

"method": "POST",

"href": "/checklists/1/checklistitems",

"type": "application/json",

"fields": [

{"name": "checklist\_id", "type": "hidden", "value": 1, "title": "Checklist Id"},

{"name": "name", "type": "text", "title": "Name"},

{"name": "description", "type": "text", "title": "Description"}

]

},

{

"name": "delete-checklist",

"title": "Delete Checklist",

"method": "DELETE",

"href": "/checklists/1"

},

{

"name": "update-checklist",

"title": "Update Checklist",

"method": "PUT",

"href": "/checklists/1",

"type": "application/json",

"fields": [

{"name": " checklist\_id", "type": "hidden", "value": 1, "title": "Checklist Id"},

{"name": "name", "type": "text", "title": "Name"},

{"name": "completion\_date", "type": "text", "title": "Completion Date"}

]

}

],

"links": [

{"rel": ["self"], "href": "/checklists/1"}

]

}

Completion\_date – segue a norma ISO 8601 para indicar a data até quando todos os itens da lista devem ser completos.

O identifier usado é do ItemList do schema.org. **GET /checklists/{checklist\_id}/checklistitems** – retorna uma collection+json dos elementos da lista.

{

"collection": {

"version": "1.0",

"href": "/checklists/1/checklistitems?page=0",

"items": [

{

"href": "/checklists/1/checklistitems/3",

"data": [

{"name": "checklistitem\_id", "value": 3, "prompt": "Checklist Item Id"},

{"name": "name", "value": "Inserir alunos no Thoth", "prompt": "Name"}

],

"links": [

{"rel": "checklist", "href": "/checklists/1"}

]

},

{

"href": "/checklists/1/checklistitems/4",

"data": [

{"name": "checklistitem\_id", "value": 4, "prompt": "Checklist Item Id"},

{"name": "name", "value": "Criar repositórios no github", "prompt": "Name"}

],

"links": [

{"rel": "checklist", "href": "/checklists/1"}

]

}

],

"links": [

{"rel": "next", "href": "/checklists/1/checklistitems?page=2"}

]

}

}

**GET /checklists/{checklist\_id}/checklistitems/{checklistitem\_id}**

{

"class": ["checklistitem"],

"properties": {

"id": 3,

"name": "Inserir alunos no Thoth",

"description": "",

"state": "Uncompleted",

"checklist\_id": 1

},

"entities": [

{

"class": ["checklist"],

"rel": ["/checklists/1"],

"href": "/checklists/1/checklistitems"

}

],

"actions": [

{

"name": "delete-checklistitem",

"title": "Delete Checklist Item",

"method": "DELETE",

"href": "/checklists/1/checklistitems/3"

},

{

"name": "update-checklistitem",

"title": "Update Checklist Item",

"method": "PUT",

"href": "/checklists/1/checklistitems/3",

"type": "application/json",

"fields": [

{"name": "checklist\_id", "type": "hidden", "value": 1, "title": "Checklist Id"},

{"name": "checklistitem\_id", "type": "hidden", "value": 3, "title": "Checklist Item Id"},

{"name": "name", "type": "text", "title": "Name"},

{"name": "description", "type": "text", "title": "Description"},

{"name": "state", "type": "text", "title": "State"}

]

}

],

"links": [

{"rel": ["self"], "href": "/checklists/1/checklistitems/3"}

]

}

Description obtido do ListItem de schema.org.

State – texto com os valores “Completed” ou “Uncompleted” que indica se o item foi completo ou não.

**GET /checklisttemplates**

{

"collection": {

"version": "1.0",

        "href": "/checklisttemplates?page=0",

        "items": [

            {

"href": "/checklisttemplates/1",

"data": [

{"name": "checklisttemplate\_id", "value": 1, "prompt": "Checklist Template Id"},

{"name": "name", "value": "Lista 1", "prompt": "Name"}

],

"links": [

{"rel": "templateitems", "href": "/checklisttemplates/1/templateitems"}

]

}

],

"links": [

{"rel": "next", "href": "/checklisttemplates?page=2"}

]

}

}

**GET /checklisttemplates/{checklisttemplate\_id}** – retorna um Siren com as informações de um template.

{

"class": ["checklisttemplate"],

"properties": {

"name": "Lista 1",

"usable": true,

"checklisttemplate\_id": 1

},

"entities": [

{

"class": ["templateitem"],

"rel": ["/checklisttemplates/1"],

"href": "/checklisttemplates/1/templateitems"

}

],

"actions": [

{

"name": "add-templateitem",

"title": "Add Template Item",

"method": "POST",

"href": "/checklisttemplates/1/templateitems",

"type": "application/json",

"fields": [

{"name": "checklisttemplate\_id", "type": "hidden", "value": 1, "title": "Checklist Template Id"},

{"name": "name", "type": "text", "title": "Name"},

{"name": "description", "type": "text", "title": "Description"}

]

},

{

"name": "delete-checklisttemplate",

"title": "Delete Checklist Template",

"method": "DELETE",

"href": "/checklisttemplates/1",

"type": "application/x-www-form-urlencoded"

},

{

"name": "update-checklisttemplate",

"title": "Update Checklist Template",

"method": "PUT",

"href": "/checklisttemplates/1",

"type": "application/json",

"fields": [

{"name": "checklisttemplate\_id", "type": "hidden", "value": 1, "title": "Checklist Template Id"},

{"name": "name", "type": "text", "title": "Name"}

]

},

{

"name": "create-checklist",

"title": "Create Checklist",

"method": "POST",

"href": "/checklists",

"type": "application/json",

"fields": [

{"name": "checklisttemplate\_id", "type": "hidden", "value": 1, "title": "Checklist Id"},

{"name": "completionDate", "type": "text", "title": "Completion Date"}

]

}

],

"links": [

{"rel": ["self"], "href": "/checklisttemplates/1"}

]

}

Identifier – obtido do ListItem de schema.org.

**GET /checklisttemplates/{checklisttemplate\_id}/templateitems**

{

"collection": {

"version": "1.0",

"href": "/checklisttemplates/1/templateitems?page=0",

"items": [

{

"href": "/checklisttemplates/1/templateitems/2",

"data": [

{"name": "templateitem\_id", "value": 2, "prompt": "Template Item Id"},

{"name": "name", "value": "Inserir alunos no Thoth", "prompt": "Name"}

],

"links": [

{"rel":"checklisttemplate", "href": "/checklisttemplates/1"}

]

},

{

"href": "/checklisttemplates/1/templateitems/3",

"data": [

{"name": "templateitem\_id", "value": 3, "prompt": "Template Item Id"},

{"name": "name", "value": "Criar repositórios no github", "prompt": "Name"}

],

"links": [

{"rel":"checklisttemplate", "href": "/checklisttemplates/1"}

]

}

],

"links": [

{"rel": "next", "href": "/checklisttemplates/1/templateitems?page=2"}

]

}

}

**GET /checklisttemplates/{checklisttemplate\_id}/templateitems/{templateitem\_id}**

{

"class": ["templateitem"],

"properties": {

"templateitem\_id": 2,

"name": "Inserir alunos no Thoth",

"description": "",

"checklisttemplate\_id": 1

},

"entities": [

{

"class": ["checklisttemplate"],

"rel": ["/checklisttemplates/1"],

"href": "/checklisttemplates/1 "

}

],

"actions": [

{

"name": "delete-templateitem",

"title": "Delete Template Item",

"method": "DELETE",

"href": "/checklisttemplates/1/templateitems/2",

"type": "application/x-www-form-urlencoded"

},

{

"name": "update-templateitem",

"title": "Update Template Item",

"method": "PUT",

"href": "/checklisttemplates/1/templateitems/2",

"type": "application/json",

"fields": [

{"name": "checklisttemplate\_id", "type": "hidden", "value": 1, "title": "Checklist Template Id"},

{"name": "templateitem\_id", "type": "hidden", "value": 2, "title": "Template Item Id"},

{"name": "name", "type": "text", "title": "Name"},

{"name": "description", "type": "text", "title": "Description"}

]

}

],

"links": [

{"rel": ["self"], "href": "/checklisttemplates/1/templateitems/2"}

]

}

Description – ListItem de schema.org.

POST:

/checklists

Body: name, completionDate

Cria uma checklist.

/checklisttemplates

Body: name

Cria um template.

/users

Body: username, password

Cria um novo utilizador.

Erros:

Em caso de erro a resposta tem o tipo problem+json com o formato:

**- State ser um valor fora dos possíveis.**

{

"type": "/validation-error",

"title": "Your request parameters didn't validate.",

"status": 400,

"detail": "The state value is not valid.",

"instance": "/checklists/1/checklistitems/3",

"invalid-params": [

{

"name": "state",

"reason": "state must be either 'completed' or 'uncompleted'",

"given": "finished"

}

]

}

**- Não tem autenticação ou é inválida**

{

"type": "/authentication-error",

"title": "Authentication Failed.",

"status": 401,

"detail": "The username or password were not provided or are invalid.",

"instance": "/checklists/1/checklistitems/3",

"invalid-params": [

{

"name": "username",

"reason": "username is not valid"

},

{

"name": "password",

"reason": "password is not valid"

}

]

}

**- Utilizador já existe**

{

"type": "/creation-error",

"title": "Invalid credentials.",

"status": 409,

"detail": "The username provided already exists.",

"instance": "/users",

"invalid-params": [

{

"name": "username",

"reason": "username already exists"

}

]

}

**Home**

{

"resources": {

"/checklists": {

"href": "/checklists",

"hints": {

"allow": ["GET", "POST"],

"representations": ["application/vnd.collection+json"],

"accept-post": ["application/json"]

}

},

"/checklist": {

"href-template": "/checklists/{checklist\_id}",

"href-vars": {

"checklist\_id": "/checklists"

},

"hints": {

"allow": ["GET", "PUT", "DELETE"],

"representations": ["application/vnd.siren+json"],

“accept-put”: [“application/json”]

}

},

"/checklisttemplates": {

"href": "/checklisttemplates",

"hints": {

"allow": ["GET", "POST"],

"representations": ["application/vnd.collection+json"],

"accept-post": ["application/json"]

}

},

"/checklisttemplate": {

"href-template": "/checklisttemplates/{checklisttemplate\_id}",

"href-vars": {

"checklisttemplate\_id": "/checklisttemplates"

},

"hints": {

"allow": ["GET", "PUT", "DELETE"],

"representations": ["application/vnd.siren+json"],

“accept-put”: [“application/json”]

}

},

“/users”: {

“href”: “/users”,

“hints”: {

“allow”: [“POST”],

“accept-post”: [“application/json”]

}

}

}

}

|  |  |  |
| --- | --- | --- |
| **Nome do campo** | **Significado** | **Referência** |
| name | Nome do recurso, obrigatório (text) | http://schema.org/name |
| completion\_date | Data limite para completar a checklist, obrigatório (ISO 8601) |  |
| checklist\_id | Identificador da checklist, obrigatório (number) |  |
| checklisttemplate\_id | Identificador da checklist template que o gerou, obrigatório (number) |  |
| description | Descrição do recurso, opcional (text) | http://schema.org/description |
| state | Indica o estado do checklist item. Pode ser “completed” ou “uncompleted”, obrigatório (text) |  |
| checklistitem\_id | Identificador do item de uma checklist, obrigatório (number) |  |
| templateitem\_id | Identificador do item de um template, obrigatório (number) |  |