

API Documentation

Version 1.0.4

TalentCards

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1. Overview

1.1 JSON:API

JSON:API [1] is a specification for how a client should request that resources be fetched or modified, and how a server should respond to those requests. JSON:API is designed to minimize both the number of requests and the amount of data transmitted between clients and servers. This efficiency is achieved without compromising readability, flexibility or discoverability. JSON:API requires the use of the JSON:API media type (*application/vnd.api+json*) for exchanging data.

1.2 Authentication

You authenticate to the TalentCards API by including the API key in the request. You can manage your API key from your administrator account by editing the admin User (Edit User Advanced tab). Be sure to keep your API key secret, as it is the only way to authenticate to the API. Whenever the User wants to access a protected route or resource, the User agent should send their API token in the Authorization header using the Bearer schema. The content of the header should look like the following:

```
Authorization: Bearer <token>
```

1.3 Errors

The TalentCards API uses HTTP response codes to indicate the success or failure of requests. Specifically, codes in the 2xx range indicate success, codes in the 4xx range indicate an error that has resulted from the provided arguments (e.g., instead of an integer a string is supplied) and the 500 error code indicates an internal TalentCards API error.

1.3.1 Response Status Codes

Table 1.1: Response Status Codes

Code	Description
200	Request executed properly
201	Resource created successfully
204	Request executed properly, no data will be returned
401	Invalid API key provided
403	The API is not enabled for the specified account or the account is currently inactive
404	The requested resource or endpoint does not exist
409	The requested resource already exists and was not created
422	A required parameter is missing or failed validation
429	You have made too many requests within the last minute
500	Internal server error

1.3.2 Error Object

In addition to the HTTP status code, when an error occurs, the response contains an error object that describes the problem with the request. An error object MAY have the following members:

- status: the HTTP status code applicable to this problem

- code: an application- error code
- title: a short, human-readable summary of the problem
- detail: a human-readable explanation for this occurrence of the problem
- source: an object containing references to the source of the error

1.3.3 Error Responses

You can see some typical error examples in Listings 1.1, 1.2 and 1.3 below.

Listing 1.1: Error - Invalid endpoint

```
{
  "errors" : [
    {
      "status" : "404",
      "code" : 1001,
      "title" : "Invalid endpoint",
      "detail" : "Corresponds with HTTP 404. The specified API endpoint does not exist"
    }
  ]
}
```

Listing 1.2: Error - Unauthenticated

```
{
  "errors" : [
    {
      "status" : "401",
      "code" : 1102,
      "title" : "Could not authenticate you",
      "detail" : "Corresponds with HTTP 401. There was an issue with the authentication data
↪ for the request."
    }
  ]
}
```

Listing 1.3: Error - Resource not found

```
{
  "errors" : [
    {
      "status" : "404",
      "code" : 1204,
      "title" : "No resource matches for specified terms",
      "detail" : "Corresponds with HTTP 404. It was not possible to find a resource matching
↪ the parameters specified."
    }
  ]
}
```

1.4 Rate limit throttling

Rate limits represent the maximum number of API requests that an account is permitted to make per hour. These limits depend on your subscription plan and are as follows:

Table 1.2: Rate limits

Plan	Limit per hour
Free	50
Small	2000
Basic	2000
Plus	10000
Premium	10000

TalentCards passes back up to four headers:

- X-RateLimit-Limit,
- X-RateLimit-Remaining,
- Retry-After,
- and X-RateLimit-Reset.

The first two headers appear in every TalentCards API response. X-RateLimit-Limit indicates the max number of requests you're allowed to make within a minute, while X-RateLimit-Remaining indicates how many requests you have left within the current minute.

The last two headers only appear when you have reached the request limit. Retry-After indicates how many seconds to wait before trying again, and X-RateLimit-Reset is the remaining window before the rate limit resets in UTC epoch seconds.

Listing 1.4 shows the typical error response for when the request limit has been exceeded.

Listing 1.4: Error - Rate limit exceeded

```
{
  "errors" : [
    {
      "status" : "429",
      "code" : 1005,
      "title" : "Rate limit exceeded",
      "detail" : "Corresponds with HTTP 429. Your account has reached the global request
↪ limit for the current rate limit window. Please try again later."
    }
  ]
}
```

1.5 The TalentCards API

1.5.1 Request URLs

Table 1.3 lists all the available endpoints in the API's latest version (v1).

Table 1.3: Request URLs

HTTP Method	Endpoint
GET	/api/v1/company
GET	/api/v1/company/me
GET	/api/v1/company/sequences
GET	/api/v1/company/sequences/{sequence}
PATCH	/api/v1/company/sequences/{sequence}
GET	/api/v1/company/sequences/{sequence}/relationships/groups
GET	/api/v1/company/sequences/{sequence}/relationships/sets
GET	/api/v1/company/sets
GET	/api/v1/company/sets/{set}
PATCH	/api/v1/company/sets/{set}
GET	/api/v1/company/sets/{set}/relationships/groups
GET	/api/v1/company/sets/{set}/relationships/sequences
GET	/api/v1/company/sets/{set}/relationships/users
GET	/api/v1/company/users
GET	/api/v1/company/users/{user}
GET	/api/v1/company/users/{user}/relationships/groups
GET	/api/v1/company/users/{user}/relationships/sets
GET	/api/v1/company/groups
GET	/api/v1/company/groups/{group}
GET	/api/v1/company/groups/{group}/relationships/sequences
GET	/api/v1/company/groups/{group}/relationships/sets
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GET	/api/v1/company/groups/{group}/sequences
GET	/api/v1/company/groups/{group}/sequences/{sequence}
GET	/api/v1/company/groups/{group}/sequences/{sequence}/relationships/sets
GET	/api/v1/company/groups/{group}/sets
GET	/api/v1/company/groups/{group}/sets/{set}
POST	/api/v1/company/groups/{group}/users
GET	/api/v1/company/groups/{group}/users
PATCH	/api/v1/company/groups/{group}/users/{user}
GET	/api/v1/company/groups/{group}/users/{user}
DELETE	/api/v1/company/groups/{group}/users/{user}/relationships/sets
POST	/api/v1/company/groups/{group}/users/{user}/relationships/sets
GET	/api/v1/company/groups/{group}/users/{user}/relationships/sets
GET	/api/v1/company/groups/{group}/users/{user}/reports

1.5.2 Sparse Fieldsets

A client MAY request that an endpoint returns only fields in the response on a per-type basis by including a `fields[TYPE]` parameter.

The value of the `fields` parameter MUST be a comma-separated (U+002C COMMA, “,”) list that refers to the name(s) of the fields to be returned.

Example: `GET /api/v1/company/users?fields[users]=last-name`

1.5.3 Sorting

Most endpoints support requests to sort the primary data with a sort query parameter. The value for `sort` MUST represent sort fields.

Moreover endpoints support multiple sort fields by allowing comma-separated (U+002C COMMA, “,”) sort fields.

The sort order for each sort field should be ascending unless it is prefixed with a minus (U+002D HYPHEN-MINUS, “-”), in which case it should be descending.

The server applies default sorting rules to top-level data if request parameter `sort` is not specified.

Example: `GET /api/v1/company/users?sort=-email`

1.5.4 Pagination

The TalentCards API uses a page-based strategy and the “page” query parameter is reserved for pagination. Clients should use it for pagination operations with query parameters such as `page[number]` and `page[size]` in the request. This applies to any endpoint that responds with a resource collection as primary data.

Example: `GET /api/v1/company/users?page[size]=15&page[number]=2`

The TalentCards API limits the number of resources returned in a response to a subset (“page”) of the whole set available and provides pagination links to traverse a paginated data set. Pagination links appear in the `links` object that corresponds to a collection. To paginate the primary data, pagination links are supplied in the top-level `links` object. To paginate an included collection returned in a compound document, pagination links are supplied in the corresponding `links` object.

Note: The example query parameters use unencoded `[` and `]` characters simply for readability. In practice, these characters must be percent-encoded, per the requirements in [4, RFC 3986].

1.5.5 Filtering

The filter query parameter is reserved for filtering data. Clients should use this key for filtering operations.

Example: `GET /api/v1/company/users?filter[name]=John`



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2.7	GET /api/v1/company/sequences/{sequence}/relationships/groups	22
2.8	GET /api/v1/company/sequences/{sequence}/relationships/sets	24
2.9	GET /api/v1/company/sets	25
2.10	GET /api/v1/company/sets/{set}	27
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3.7	GET /api/v1/company/groups/{group}/users/{user}/reports	49
3.8	GET /api/v1/company/groups/{group}/users/{user}/relationships/sets	50
3.9	POST /api/v1/company/groups/{group}/users/{user}/relationships/sets	52
3.10	DELETE /api/v1/company/groups/{group}/users/{user}/relationships/sets	53
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2. Account-wide Endpoints

The TalentCards API has two different levels of operation: Account and Group. Account level endpoints provide global generic information for your account related resources. This means the results are not filtered by group and some information might not be available in the response without making a more specific call.

2.1 Account info

Retrieves information about your account, including your current subscription plan, billing information, whether the account is suspended, etc.

2.1.1 Request URL

```
GET https://www.talentcards.io/api/v1/company
```

2.1.2 Success response

Listing 2.1: Account Info – Success response

```
{
  "type" : "companies",
  "id" : "1",
  "attributes" : {
    "suspended" : false,
    "name" : "My Company",
    "plan" : "Premium",
    "billing-name" : null,
    "billing-address" : null,
    "billing-period-ends-at" : "2018-03- 27T13: 45:10+ 00:00",
    "created-at" : "2018-02- 02T13: 57:28+ 00:00",
    "updated-at" : "2018-02- 27T13: 45:14+ 00:00"
  },
  "relationships" : {
    "admins" : {
      "type" : "admins",
      "id" : "1"
    },
    "groups" : {
      "data" : [
        {
          "type" : "groups",
          "id" : "1"
        },
        {
          "type" : "groups",
          "id" : "2"
        },
        {
          "type" : "groups",
          "id" : "3"
        }
      ]
    },
    "related" : {
      "self" : " https://talentcards.io/api/v1/company/groups"
    },
    "meta" : {
      "page_size" : 30,
      "total_count" : 3
    }
  },
}
```

```
{
  "users" : {
    "data" : [
      {
        "type" : "users",
        "id" : "2"
      }
    ],
    "links" : {
      "related" : " https://talentcards.io/api/v1/company/users"
    },
    "meta" : {
      "page_size" : 30,
      "total_count" : 1
    }
  },
  "links" : {
    "self" : " https://talentcards.io/api/v1/company"
  }
}
```

2.2 Authenticated User

Retrieves information about the authenticated administrator user.

2.2.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/me
```

2.2.2 Success response

Listing 2.2: Authenticated User – Success response

```
{
  "type" : "admins",
  "id" : "2",
  "attributes" : {
    "active" : true,
    "email" : "me@mycompany.com",
    "first-name" : "Name",
    "last-name" : "Surname",
    "last-login" : "2018-03- 26T06: 29:59+ 00:00",
    "created-at" : "2018-02- 02T13: 57:28+ 00:00",
    "updated-at" : "2018-03- 26T06: 29:59+ 00:00"
  },
  "relationships" : {
    "company" : {
      "data" : {
        "type" : "companies",
        "id" : "1"
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company"
      }
    }
  },
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/me"
  }
}
```

2.3 Users

Produces a listing of all your account's users.

2.3.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/users
```

2.3.2 Success response

Listing 2.3: Users – Success response

```
{
  "data" : [
    {
      "type" : "users",
      "id" : "2",
      "attributes" : {
        "enabled" : true,
        "email" : "john.doe@mycompany.com",
        "first-name" : "John",
        "last-name" : "Doe",
        "mobile" : null,
        "created-at" : "2018-01- 02T13: 57:28+ 00:00",
        "updated-at" : "2018-03- 02T16: 27:13+ 00:00"
      },
      "relationships" : {
        "company" : {
          "data" : {
            "type" : "companies",
            "id" : "1"
          },
          "links" : {
            "self" : "https://talentcards.io/api/v1/company/groups/2",
            "related" : "https://talentcards.io/api/v1/company/groups/2/users"
          }
        },
        "groups" : {
          "data" : {
            "type" : "groups",
            "id" : "1",
            "meta" : {
              "enabled" : true,
              "last-login" : "2018-03- 02T16: 27:13+ 00:00",
              "access-token" : "ABCDEFGHijkl",
              "tags" : [
                "a tag",
                "another tag"
              ]
            }
          },
          "links" : {
            "self" : "https://talentcards.io/api/v1/company/users/2/relationships/groups",
            "related" : "https://talentcards.io/api/v1/company/groups/1/users"
          }
        },
        "sets" : {
          "data" : [
            {
              "type" : "sets",
              "id" : "5"
            }
          ],
          "links" : {
            "self" : "https://talentcards.io/api/v1/company/users/2/relationships/sets",
            "related" : "https://talentcards.io/api/v1/company/groups/1/sets"
          }
        }
      }
    }
  ],
  "links" : {
    "self" : "https://talentcards.io/api/v1/company/users",
    "related" : "https://talentcards.io/api/v1/company/groups/1/users"
  }
}
```



```
{
  "meta" :{
    "page_size" :30,
    "total_count" :1
  }
},
"links" :{
  "self" : " https://talentcards.io/api/v1/company/users/2",
  "related" : " https://talentcards.io/api/v1/company/groups"
}
],
"links" :{
  "first" : " https://talentcards.io/api/v1/company/users?page%5Bnumber%5D=1",
  "last" : " https://talentcards.io/api/v1/company/users?page%5Bnumber%5D=1",
  "prev" :null,
  "next" :null
},
"meta" :{
  "current_page" :1,
  "from" :1,
  "last_page" :1,
  "path" : " https://talentcards.io/api/v1/company/users",
  "per_page" :30,
  "to" :1,
  "total" :1
}
}
```

IMPORTANT NOTE

User related endpoints now include a meta object inside each group relationship section. This contains the following group-specific fields for the current user:

enabled, last-login, access-token and tags

Bear in mind, certain fields **might not be always present**. For example, depending on whether the user has never signed-in, or if one does not have tags, the respective information will be omitted. Make sure you always check for the presence of such keys when parsing the API response.

2.4 User

Retrieves a single User.

2.4.1 Request URL

GET <https://www.talentcards.io/api/v1/company/users/{user}>

2.4.2 Request URL Parameters

You can request a single User by including the User's ID in the URL as shown in Table 2.1.

Table 2.1: User - URL parameters

Parameter	Required	Type	Description
{user}	Yes	Numeric	User identifier

2.4.3 Success response

Listing 2.4: User – Success response

```
{
  "type" : "users",
  "id" : "74",
  "attributes" : {
    "enabled" : false,
    "email" : null,
    "first-name" : "John",
    "last-name" : "Doe",
    "mobile" : "+12025550184",
    "created-at" : "2018-03- 19T10: 05:37+ 00:00",
    "updated-at" : "2018-03- 20T14: 44:51+ 00:00"
  },
  "relationships" : {
    "company" : {
      "data" : {
        "type" : "companies",
        "id" : "1"
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/groups/1",
        "related" : " https://talentcards.io/api/v1/company/groups/1/users"
      }
    },
    "groups" : {
      "data" : {
        "type" : "groups",
        "id" : "1",
        "meta" : {
          "enabled" : true,
          "last-login" : "2018-03- 02T16: 27:13+ 00:00",
          "access-token" : "ABCDEFGHijkl",
          "tags" : [
            "a tag",
            "another tag"
          ]
        }
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/users/74/relationships/groups",
        "related" : " https://talentcards.io/api/v1/company/groups/1/users"
      }
    },
    "sets" : {
      "data" : [

      ],
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/users/74/relationships/sets",
        "related" : " https://talentcards.io/api/v1/company/groups/1/sets"
      },
      "meta" : {
        "page_size" : 30,
        "total_count" : 0
      }
    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/users/74",
      "related" : " https://talentcards.io/api/v1/company/groups"
    }
  }
}
```

2.4.4 Error response

Listing 2.5: User – Error response

```
{
  "errors" : [
    {
      "status" : "404",
      "code" : 1204,
      "title" : "No resource matches for specified terms",
      "detail" : "Corresponds with HTTP 404. It was not possible to find a resource matching
↪ the parameters specified."
    }
  ]
}
```

2.5 Set Sequences

Produces a listing of all your account's Set Sequences.

2.5.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/sequences
```

2.5.2 Success response

Listing 2.6: Set Sequences – Success response

```
{
  "data" : [
    {
      "type" : "sequences",
      "id" : "2",
      "attributes" : {
        "name" : "New set sequence 1",
        "created-at" : "2018-03- 06T14: 58:07+ 00:00",
        "updated-at" : "2018-03- 06T14: 58:07+ 00:00"
      },
      "relationships" : {
        "sets" : {
          "data" : [
            {
              "type" : "sets",
              "id" : "1"
            },
            {
              "type" : "sets",
              "id" : "2"
            }
          ],
          "links" : {
            "self" : "https://talentcards.io/api/v1/company/groups/1/sequences/2/relationships/sets",
            "related" : "https://talentcards.io/api/v1/company/groups/2/sets"
          },
          "meta" : {
            "page_size" : 30,
            "total_count" : 2
          }
        }
      },
      "links" : {
        "self" : "https://talentcards.io/api/v1/company/groups/1/sequences/2",
        "related" : "https://talentcards.io/api/v1/company/groups/1/sequences"
      }
    },
    {
      "type" : "sequences",
      "id" : "3",
      "attributes" : {
        "name" : "New set sequence 2",
        "created-at" : "2018-03- 06T14: 58:31+ 00:00",
        "updated-at" : "2018-03- 06T14: 58:31+ 00:00"
      },
      "relationships" : {
        "sets" : {
          "data" : [
            {
              "type" : "sets",
              "id" : "4"
            },
            {
              "type" : "sets",
              "id" : "5"
            }
          ],
          "links" : {
            "self" : "https://talentcards.io/api/v1/company/groups/1/sequences/3/relationships/sets",
            "related" : "https://talentcards.io/api/v1/company/groups/3/sets"
          },
          "meta" : {
            "page_size" : 30,
            "total_count" : 2
          }
        }
      }
    }
  ]
}
```

```

    }
  },
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/groups/1/sequences/3",
    "related" : " https://talentcards.io/api/v1/company/groups/1/sequences"
  }
},
],
"links" : {
  "first" : " https://talentcards.io/api/v1/company/sequences?page%5Bnumber%5D=1",
  "last" : " https://talentcards.io/api/v1/company/sequences?page%5Bnumber%5D=1",
  "prev" : null,
  "next" : null
},
"meta" : {
  "current_page" : 1,
  "from" : 1,
  "last_page" : 1,
  "path" : " https://talentcards.io/api/v1/company/sequences",
  "per_page" : 30,
  "to" : 2,
  "total" : 2
}
}

```

2.6 Set Sequence

Retrieves a single Set Sequence.

2.6.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/sequences/{sequence}
```

2.6.2 Request URL Parameters

You can request a single Sequence by including its ID in the URL as shown in Table 2.2.

Table 2.2: Set Sequence - URL parameters

Parameter	Required	Type	Description
{sequence}	Yes	Numeric	Sequence identifier

2.6.3 Success response

Listing 2.7: Set Sequence – Success response

```

{
  "type" : "sequences",
  "id" : "2",
  "attributes" : {
    "name" : "New set sequence",
    "created-at" : "2018-03- 06T14: 58:07+ 00:00",
    "updated-at" : "2018-03- 06T14: 58:07+ 00:00"
  },
  "relationships" : {
    "sets" : {
      "data" : [
        {
          "type" : "sets",
          "id" : "1"
        }
      ]
    }
  }
}

```

```

    },
    {
      "type" : "sets",
      "id" : "2"
    }
  ],
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/groups/1/sequences/2/relationships/sets",
    "related" : " https://talentcards.io/api/v1/company/groups/2/sets"
  },
  "meta" : {
    "page_size" : 30,
    "total_count" : 2
  }
}
},
"links" : {
  "self" : " https://talentcards.io/api/v1/company/groups/1/sequences/2",
  "related" : " https://talentcards.io/api/v1/company/groups/1/sequences"
}
}

```

2.6.4 Error response

Listing 2.8: Set Sequence – Error response

```

{
  "errors" : [
    {
      "status" : "404",
      "code" : 1204,
      "title" : "No resource matches for specified terms",
      "detail" : "Corresponds with HTTP 404. It was not possible to find a resource matching
↪ the parameters specified."
    }
  ]
}

```

2.7 Group related to Set Sequence

Retrieves the Group related to the specified Set Sequence.

2.7.1 Request URL

GET <https://www.talentcards.io/api/v1/company/sequences/{sequence}/relationships/groups>

2.7.2 Request URL Parameters

You can request the Group related to a specific Set Sequence by including the Sequence's ID in the URL as shown in Table 2.3.

Table 2.3: Group related to Set Sequence - URL parameters

Parameter	Required	Type	Description
{sequence}	Yes	Numeric	Sequence identifier

2.7.3 Success response

Listing 2.9: Group related to Set Sequence – Success response

```

{
  "type" : "groups",
  "id" : "1",
  "attributes" : {
    "name" : "Marketing",
    "active" : true,
    "access-token" : "AAPVGHDFLZHX",
    "settings" : {
      "appearance" : {
        "primary_color" : "#00529C",
        "second_color" : "#F16B32",
        "logo" : "logo_n_A_YtzL8VKfS70TM"
      },
      "tests" : {
        "enforce_success_score" : true,
        "success_score" : 70,
        "show_correct_answer" : true
      },
      "gamification" : {
        "leaderboards" : {
          "overall" : true,
          "monthly" : true
        }
      }
    },
    "leader-monthly" : 0,
    "leader-all" : 0,
    "created-at" : "2018-02- 02T13: 57:28+ 00:00",
    "updated-at" : "2018-03- 20T12: 29:50+ 00:00"
  },
  "relationships" : {
    "users" : {
      "data" : [
        {
          "type" : "users",
          "id" : "2"
        }
      ],
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/groups/1/relationships/users",
        "related" : " https://talentcards.io/api/v1/company/groups/1/users"
      },
      "meta" : {
        "item_limit" : 30,
        "count" : 1
      }
    },
    "sets" : {
      "data" : [
        {
          "type" : "sets",
          "id" : "1"
        },
        {
          "type" : "sets",
          "id" : "2"
        }
      ],
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/groups/1/relationships/sets",
        "related" : " https://talentcards.io/api/v1/company/groups/1/sets"
      },
      "meta" : {
        "item_limit" : 30,
        "count" : 2
      }
    }
  }
}

```

```

},
"sequences" : {
  "data" : [
    {
      "type" : "sequences",
      "id" : "2"
    }
  ],
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/groups/1/relationships/sequences",
    "related" : " https://talentcards.io/api/v1/company/sequences"
  },
  "meta" : {
    "item_limit" : 30,
    "count" : 1
  }
}
},
"links" : {
  "self" : " https://talentcards.io/api/v1/company/groups/1",
  "related" : " https://talentcards.io/api/v1/company/groups"
}
}

```

2.8 Sets of Set Sequence

Produces a listing of all Sets of a Set Sequence.

2.8.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/sequences/{sequence}/relationships/sets
```

2.8.2 Success response

Listing 2.10: Sets of Set Sequence – Success response

```

{
  "data" : [
    {
      "type" : "sets",
      "id" : "1",
      "attributes" : {
        "name" : "Self understanding",
        "description" : "Self-understanding pinpoints what an employee's likes, dislikes, strengths
↔ and other traits are, and inspires personal growth by helping him define his identity.
↔ Personality traits affects his behavior and overall success at work.",
        "enabled" : false,
        "single-sided" : false,
        "created-at" : "2018-02- 02T13: 57:28+ 00:00",
        "updated-at" : "2018-03- 21T09: 22:59+ 00:00"
      },
      "relationships" : {
        "groups" : {
          "data" : {
            "type" : "groups",
            "id" : "1"
          },
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/groups",
            "related" : " https://talentcards.io/api/v1/company/groups/1"
          }
        },
        "users" : {
          "data" : [

```



```

    {
      "type" : "users",
      "id" : "2"
    }
  ],
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/users",
    "related" : " https://talentcards.io/api/v1/company/groups/1/users"
  },
  "meta" : {
    "page_size" : 30,
    "total_count" : 1
  }
},
"sequences" : {
  "data" : {
    "type" : "sequences",
    "id" : "2"
  },
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
    "related" : " https://talentcards.io/api/v1/company/groups//sequences/2"
  }
}
},
"links" : {
  "self" : " https://talentcards.io/api/v1/company/sets/1",
  "related" : " https://talentcards.io/api/v1/company/sets"
}
}
],
"links" : {
  "first" : "
https://talentcards.io/api/v1/company/sequences/2/relationships/sets?page%5Bnumber%5D=1",
  "last" : "
https://talentcards.io/api/v1/company/sequences/2/relationships/sets?page%5Bnumber%5D=1",
  "prev" : null,
  "next" : null
},
"meta" : {
  "current_page" : 1,
  "from" : 1,
  "last_page" : 1,
  "path" : " https://talentcards.io/api/v1/company/sequences/2/relationships/sets",
  "per_page" : 30,
  "to" : 1,
  "total" : 1
}
}

```

2.9 Sets

Produces a listing of all your account's Sets.

2.9.1 Request URL

GET <https://www.talentcards.io/api/v1/company/sets>

2.9.2 Success response

Listing 2.11: Sets – Success response

```
{
  "data" : [
    {
      "type" : "sets",
      "id" : "1",
      "attributes" : {
        "name" : "Self understanding",
        "description" : "Self-understanding pinpoints what an employee's likes, dislikes, strengths
↪ and other traits are, and inspires personal growth by helping him define his identity.
↪ Personality traits affects his behavior and overall success at work.",
        "enabled" : true,
        "single-sided" : false,
        "created-at" : "2018-02- 02T13: 57:28+ 00:00",
        "updated-at" : "2018-03- 21T09: 22:59+ 00:00"
      },
      "relationships" : {
        "groups" : {
          "data" : {
            "type" : "groups",
            "id" : "1"
          },
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/groups",
            "related" : " https://talentcards.io/api/v1/company/groups/1"
          }
        },
        "users" : {
          "data" : [
            {
              "type" : "users",
              "id" : "2"
            },
            {
              "type" : "users",
              "id" : "70"
            },
            {
              "type" : "users",
              "id" : "71"
            }
          ],
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/users",
            "related" : " https://talentcards.io/api/v1/company/groups/1/users"
          },
          "meta" : {
            "page_size" : 30,
            "total_count" : 3
          }
        },
        "sequences" : {
          "data" : {
            "type" : "sequences",
            "id" : "2"
          },
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
            "related" : " https://talentcards.io/api/v1/company/groups//sequences/2"
          }
        }
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/1",
        "related" : " https://talentcards.io/api/v1/company/sets"
      }
    }
  ]
}
```

```

],
"links" : {
  "first" : " https://talentcards.io/api/v1/company/sets?page%5Bnumber%5D=1",
  "last" : " https://talentcards.io/api/v1/company/sets?page%5Bnumber%5D=1",
  "prev" : null,
  "next" : null
},
"meta" : {
  "current_page" : 1,
  "from" : 1,
  "last_page" : 1,
  "path" : " https://talentcards.io/api/v1/company/sets",
  "per_page" : 30,
  "to" : 1,
  "total" : 1
}
}

```

2.10 Set

Retrieves a single Set.

2.10.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/sets/{set}
```

2.10.2 Request URL Parameters

You can retrieve a single Set by including the necessary parameters in the URL as shown in Table 2.4.

Table 2.4: Set - URL Parameters

Parameter	Required	Type	Description
{set}	Yes	Numeric	Set identifier

2.10.3 Success response

Listing 2.12: Set – Success response

```

{
  "type" : "sets",
  "id" : "1",
  "attributes" : {
    "name" : "Self understanding",
    "description" : "Self-understanding pinpoints what an employee's likes, dislikes, strengths and
    ↪ other traits are, and inspires personal growth by helping him define his identity.
    ↪ Personality traits affects his behavior and overall success at work.",
    "enabled" : true,
    "single-sided" : false,
    "created-at" : "2018-02- 02T13: 57:28+ 00:00",
    "updated-at" : "2018-03- 21T09: 22:59+ 00:00"
  },
  "relationships" : {
    "groups" : {
      "data" : {
        "type" : "groups",
        "id" : "1"
      },
      "links" : {

```

```

    "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/groups",
    "related" : " https://talentcards.io/api/v1/company/groups/1"
  },
},
"users" : {
  "data" : [
    {
      "type" : "users",
      "id" : "2"
    }
  ],
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/users",
    "related" : " https://talentcards.io/api/v1/company/groups/1/users"
  },
  "meta" : {
    "page_size" : 30,
    "total_count" : 1
  }
},
"sequences" : {
  "data" : {
    "type" : "sequences",
    "id" : "2"
  },
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
    "related" : " https://talentcards.io/api/v1/company/groups//sequences/2"
  }
},
},
"links" : {
  "self" : " https://talentcards.io/api/v1/company/sets/1",
  "related" : " https://talentcards.io/api/v1/company/sets"
}
}

```

2.10.4 Error response

Listing 2.13: Set – Error response

```

{
  "errors" : [
    {
      "status" : "404",
      "code" : 1204,
      "title" : "No resource matches for specified terms",
      "detail" : "Corresponds with HTTP 404. It was not possible to find a resource matching
↪ the parameters specified."
    }
  ]
}

```

2.11 Set Activate/Deactivate

Activates or deactivates a specific Set.

2.11.1 Request URL

```
PATCH https://www.talentcards.io/api/v1/company/sets/{set}
```

2.11.2 Request URL Parameters

You can update a specific Set by including the necessary parameters in the URL as shown in Table 2.5. For the time being only a Set's status can be updated through the API.

Table 2.5: Set Activate/Deactivate - URL parameters

Parameter	Required	Type	Description
{set}	Yes	Numeric	Set identifier

2.11.3 Request Body

Listing 2.14: Set Activate/Deactivate – Request body

```
{
  "data" : {
    "type" : "sets",
    "id" : 1,
    "attributes" : {
      "enabled" : false
    }
  }
}
```

2.11.4 Request Body Parameters

Table 2.6 lists all the request body parameters for updating a Set's status.

Table 2.6: User Update - URL parameters

Parameter	Required	Type	Description
data	Yes	Object	Request container
type	Yes	String	Resource type (must be equal to "sets")
attributes	Yes	Object	Resource attributes container
id	Yes*	String	Set identifier
enabled	Yes	Boolean	Set status

* The id field is required as per JSON:API standard[2].

2.11.5 Success response

When the resource is successfully updated, the server responds with a HTTP 200 status code. The response body is shown in Listing 2.15:

Listing 2.15: Set Activate/Deactivate - Success response

```

{
  "type" : "sets",
  "id" : "1",
  "attributes" : {
    "name" : "Self understanding",
    "description" : "Self-understanding pinpoints what an employee's likes, dislikes, strengths and
    ↳ other traits are, and inspires personal growth by helping him define his identity.
    ↳ Personality traits affects his behavior and overall success at work.",
    "enabled" : false,
    "single-sided" : false,
    "created-at" : "2018-02- 02T13: 57:28+ 00:00",
    "updated-at" : "2018-04- 04T07: 53:55+ 00:00"
  },
  "relationships" : {
    "groups" : {
      "data" : {
        "type" : "groups",
        "id" : "1"
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/groups",
        "related" : " https://talentcards.io/api/v1/company/groups/1"
      }
    },
    "users" : {
      "data" : [
        {
          "type" : "users",
          "id" : "2"
        }
      ],
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/users",
        "related" : " https://talentcards.io/api/v1/company/groups/1/users"
      },
      "meta" : {
        "page_size" : 30,
        "total_count" : 1
      }
    },
    "sequences" : {
      "data" : {
        "type" : "sequences",
        "id" : "2"
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
        "related" : " https://talentcards.io/api/v1/company/groups//sequences/2"
      }
    }
  },
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/sets/1",
    "related" : " https://talentcards.io/api/v1/company/sets"
  }
}

```

2.12 Users of Set

Produces a listing of all the Users associated with the specified Set.

2.12.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/sets/{set}/relationships/users
```

2.12.2 Success response

Listing 2.16: Users of Set – Success response

```
{
  "data" : [
    {
      "type" : "users",
      "id" : "73",
      "attributes" : {
        "enabled" : true,
        "email" : null,
        "first-name" : "John",
        "last-name" : "Doe",
        "mobile" : "+306999999999",
        "created-at" : "2018-03- 19T10: 05:09+ 00:00",
        "updated-at" : "2018-03- 19T10: 05:09+ 00:00"
      },
      "relationships" : {
        "company" : {
          "data" : {
            "type" : "companies",
            "id" : "1"
          },
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/groups/73",
            "related" : " https://talentcards.io/api/v1/company/groups/73/users"
          }
        },
        "groups" : {
          "data" : {
            "type" : "groups",
            "id" : "1"
          },
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/users/73/relationships/groups",
            "related" : " https://talentcards.io/api/v1/company/groups/1/users"
          }
        }
      },
      "sets" : {
        "data" : [
          {
            "type" : "sets",
            "id" : "1"
          },
          {
            "type" : "sets",
            "id" : "5"
          }
        ],
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/users/73/relationships/sets",
          "related" : " https://talentcards.io/api/v1/company/groups/1/sets"
        },
        "meta" : {
          "page_size" : 30,
          "total_count" : 5
        }
      }
    }
  ]
}
```

```

    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/users/73",
      "related" : " https://talentcards.io/api/v1/company/groups"
    }
  },
  {
    "type" : "users",
    "id" : "80",
    "attributes" : {
      "enabled" : true,
      "email" : "janedoe@example.com",
      "first-name" : "Jane",
      "last-name" : "Doe",
      "mobile" : "+306988888888",
      "created-at" : "2018-03- 19T10: 25:30+ 00:00",
      "updated-at" : "2018-03- 19T10: 25:30+ 00:00"
    },
    "relationships" : {
      "company" : {
        "data" : {
          "type" : "companies",
          "id" : "1"
        },
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/groups/80",
          "related" : " https://talentcards.io/api/v1/company/groups/80/users"
        }
      },
      "groups" : {
        "data" : {
          "type" : "groups",
          "id" : "1"
        },
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/users/80/relationships/groups",
          "related" : " https://talentcards.io/api/v1/company/groups/1/users"
        }
      },
      "sets" : {
        "data" : [
          {
            "type" : "sets",
            "id" : "1"
          },
          {
            "type" : "sets",
            "id" : "2"
          }
        ],
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/users/80/relationships/sets",
          "related" : " https://talentcards.io/api/v1/company/groups/1/sets"
        },
        "meta" : {
          "page_size" : 30,
          "total_count" : 2
        }
      }
    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/users/80",
      "related" : " https://talentcards.io/api/v1/company/groups"
    }
  }
],
"links" : {
  "first" : "
https://talentcards.io/api/v1/company/sets/1/relationships/users?page%5Bnumber%5D=1",
  "last" : "
https://talentcards.io/api/v1/company/sets/1/relationships/users?page%5Bnumber%5D=1",

```



```

    "prev" : null,
    "next" : null
  },
  "meta" : {
    "current_page" : 1,
    "from" : 1,
    "last_page" : 1,
    "path" : " https://talentcards.io/api/v1/company/sets/1/relationships/users",
    "per_page" : 30,
    "to" : 2,
    "total" : 2
  }
}

```

2.13 Groups

Produces a listing of all your account's Groups.

2.13.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/groups
```

2.13.2 Success response

Listing 2.17: Groups – Success response

```

{
  "data" : [
    {
      "type" : "groups",
      "id" : "1",
      "attributes" : {
        "name" : "Marketing",
        "active" : true,
        "access-token" : "AANOPTMODLZHX",
        "settings" : {
          "appearance" : {
            "primary_color" : "#00529C",
            "second_color" : "#F16B32",
            "logo" : "talentcards_n_A_YtzL8VKfS70TM"
          },
          "tests" : {
            "enforce_success_score" : true,
            "success_score" : 70,
            "show_correct_answer" : true
          },
          "gamification" : {
            "leaderboards" : {
              "overall" : true,
              "monthly" : true
            }
          }
        }
      },
      "leader-monthly" : 0,
      "leader-all" : 0,
      "created-at" : "2018-02- 02T13: 57:28+ 00:00",
      "updated-at" : "2018-03- 20T12: 29:50+ 00:00"
    },
    {
      "relationships" : {
        "users" : {
          "data" : [
            {
              "type" : "users",
              "id" : "70"
            }
          ]
        }
      }
    }
  ]
}

```

```

    },
    {
      "type" : "users",
      "id" : "71"
    }
  ],
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/groups/1/relationships/users",
    "related" : " https://talentcards.io/api/v1/company/groups/1/users"
  },
  "meta" : {
    "item_limit" : 30,
    "count" : 2
  }
},
"sets" : {
  "data" : [
    {
      "type" : "sets",
      "id" : "1"
    },
    {
      "type" : "sets",
      "id" : "2"
    }
  ],
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/groups/1/relationships/sets",
    "related" : " https://talentcards.io/api/v1/company/groups/1/sets"
  },
  "meta" : {
    "item_limit" : 30,
    "count" : 2
  }
},
"sequences" : {
  "data" : [
    {
      "type" : "sequences",
      "id" : "2"
    },
    {
      "type" : "sequences",
      "id" : "3"
    }
  ],
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/groups/1/relationships/sequences",
    "related" : " https://talentcards.io/api/v1/company/sequences"
  },
  "meta" : {
    "item_limit" : 30,
    "count" : 2
  }
}
},
"links" : {
  "self" : " https://talentcards.io/api/v1/company/groups/1",
  "related" : " https://talentcards.io/api/v1/company/groups"
}
],
"links" : {
  "first" : " https://talentcards.io/api/v1/company/groups?page%5Bnumber%5D=1",
  "last" : " https://talentcards.io/api/v1/company/groups?page%5Bnumber%5D=1",
  "prev" : null,
  "next" : null
},
"meta" : {
  "current_page" : 1,

```

```
{
  "from" : 1,
  "last_page" : 1,
  "path" : "https://talentcards.io/api/v1/company/groups",
  "per_page" : 30,
  "to" : 1,
  "total" : 1
}
```

2.14 Group

Retrieves a single Group.

2.14.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/groups/{group}
```

2.14.2 Request URL Parameters

You can request a single Group by including its ID in the URL as shown in Table 2.7.

Table 2.7: Group - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier

2.14.3 Success response

Listing 2.18: Group – Success response

```
{
  "type" : "groups",
  "id" : "1",
  "attributes" : {
    "name" : "Marketing",
    "active" : true,
    "access-token" : "AANOPTMODLZHX",
    "settings" : {
      "appearance" : {
        "primary_color" : "#00529C",
        "second_color" : "#F16B32",
        "logo" : "talentcards_n_A_YtzL8VKfS70TM"
      },
      "tests" : {
        "enforce_success_score" : true,
        "success_score" : 70,
        "show_correct_answer" : true
      },
      "gamification" : {
        "leaderboards" : {
          "overall" : true,
          "monthly" : true
        }
      }
    },
    "leader-monthly" : 0,
    "leader-all" : 0,
    "created-at" : "2018-02- 02T13: 57:28+ 00:00",
    "updated-at" : "2018-03- 20T12: 29:50+ 00:00"
  },
}
```

```
"relationships" : {
  "users" : {
    "data" : [
      {
        "type" : "users",
        "id" : "70"
      },
      {
        "type" : "users",
        "id" : "71"
      }
    ],
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/groups/1/relationships/users",
      "related" : " https://talentcards.io/api/v1/company/groups/1/users"
    },
    "meta" : {
      "item_limit" : 30,
      "count" : 2
    }
  },
  "sets" : {
    "data" : [
      {
        "type" : "sets",
        "id" : "1"
      },
      {
        "type" : "sets",
        "id" : "2"
      }
    ],
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/groups/1/relationships/sets",
      "related" : " https://talentcards.io/api/v1/company/groups/1/sets"
    },
    "meta" : {
      "item_limit" : 30,
      "count" : 2
    }
  },
  "sequences" : {
    "data" : [
      {
        "type" : "sequences",
        "id" : "2"
      },
      {
        "type" : "sequences",
        "id" : "3"
      }
    ],
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/groups/1/relationships/sequences",
      "related" : " https://talentcards.io/api/v1/company/sequences"
    },
    "meta" : {
      "item_limit" : 30,
      "count" : 2
    }
  }
},
"links" : {
  "self" : " https://talentcards.io/api/v1/company/groups/1",
  "related" : " https://talentcards.io/api/v1/company/groups"
}
}
```

2.14.4 Error response

Listing 2.19: Group – Error response

```
{
  "errors" : [
    {
      "status" : "404",
      "code" : 1204,
      "title" : "No resource matches for specified terms",
      "detail" : "Corresponds with HTTP 404. It was not possible to find a resource matching
↪ the parameters specified."
    }
  ]
}
```

3. Group specific Endpoints

Group level endpoints filter results based on the requested Group and, in many cases, provide extended information for resources that are configured by Group.

3.1 Users of Group

Produces a listing of all the Users from the specified Group.

3.1.1 Request URL

```
GET /api/v1/company/groups/{group}/users
```

3.1.2 Success response

Listing 3.1: Users of Group – Success response

```
{
  "data" : [
    {
      "type" : "users",
      "id" : "2",
      "attributes" : {
        "enabled" : true,
        "email" : "johndoe@example.com",
        "first-name" : "John",
        "last-name" : "Doe",
        "mobile" : null,
        "created-at" : "2018-01- 02T13: 57:28+ 00:00",
        "updated-at" : "2018-03- 02T16: 27:13+ 00:00"
      },
      "relationships" : {
        "groups" : {
          "data" : [
            {
              "type" : "groups",
              "id" : "1",
              "meta" : {
                "enabled" : true,
                "last-login" : "2018-03- 02T16: 27:13+ 00:00",
                "access-token" : "ABCDEFGHIJKL",
                "tags" : [
                  "a tag",
                  "another tag"
                ]
              }
            }
          ]
        }
      },
      "links" : {
        "self" : "https://talentcards.test/api/v1/company/users/2/relationships/groups"
      },
      "meta" : {
        "page_size" : 30,
        "total_count" : 1
      }
    },
    {
      "sets" : {
        "data" : [
          {
            "type" : "sets",
            "id" : "1"
          }
        ]
      }
    }
  ]
}
```

```
    ],
    "links" :{
      "self" : " https://talentcards.io/api/v1/company/users/2/relationships/sets"
    },
    "meta" :{
      "page_size" :30,
      "total_count" :1
    }
  }
},
"links" :{
  "self" : " https://talentcards.io/api/v1/company/users/2",
  "related" : " https://talentcards.io/api/v1/company/groups/1"
}
},
"links" :{
  "first" : " https://talentcards.io/api/v1/company/groups/1/users?page%5Bnumber%5D=1",
  "last" : " https://talentcards.io/api/v1/company/groups/1/users?page%5Bnumber%5D=1",
  "prev" :null,
  "next" :null
},
"meta" :{
  "current_page" :1,
  "from" :1,
  "last_page" :1,
  "path" : " https://talentcards.io/api/v1/company/groups/1/users",
  "per_page" :30,
  "to" :1,
  "total" :1
}
}
```

3.2 User of Group

Retrieves a single User that belongs to the specified Group.

3.2.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/groups/{group}/users/{user}
```

3.2.2 Request URL Parameters

You can request a single User by including the User's ID in the URL as shown in Table 3.1.

Table 3.1: User of Group - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier
{user}	Yes	Numeric	User identifier

3.2.3 Success response

Listing 3.2: User of Group – Success response

```
{
  "type" : "users",
  "id" : "3",
  "attributes" :{
```

```

    "enabled" :false,
    "email" : "johndoe@example.com",
    "first-name" : "John",
    "last-name" : "Doe",
    "mobile" :null,
    "created-at" : "2018-03- 19T10: 05:37+ 00:00",
    "updated-at" : "2018-03- 20T14: 44:51+ 00:00"
  },
  "relationships" :{
    "groups" :{
      "data" :[
        {
          "type" : "groups",
          "id" : "2",
          "meta" :{
            "enabled" :false,
            "last-login" : "2018-03- 20T14: 44:51+ 00:00",
            "access-token" : "EFGHIJKLMNOP",
            "tags" :[
              "tag",
              "different tag"
            ]
          }
        }
      ]
    },
    "links" :{
      "self" : " https://talentcards.test/api/v1/company/users/3/relationships/groups"
    },
    "meta" :{
      "page_size" :30,
      "total_count" :1
    }
  },
  "sets" :{
    "data" :[

    ],
    "links" :{
      "self" : " https://talentcards.io/api/v1/company/users/3/relationships/sets"
    },
    "meta" :{
      "page_size" :30,
      "total_count" :0
    }
  }
},
"links" :{
  "self" : " https://talentcards.io/api/v1/company/users/3",
  "related" : " https://talentcards.io/api/v1/company/groups/2"
}
}

```

3.2.4 Error response

Listing 3.3: User of Group – Error response

```

{
  "errors" : [
    {
      "status" : "404",
      "code" : 1204,
      "title" : "No resource matches for specified terms",
      "detail" : "Corresponds with HTTP 404. It was not possible to find a resource matching
↪ the parameters specified."
    }
  ]
}

```


3.3 Set Sequences related to Group

Produces a listing of all the Set Sequences related to the specified Group.

3.3.1 Request URL

```
GET /api/v1/company/groups/{group}/relationships/sequences
```

3.3.2 Request URL Parameters

You can request all the Set Sequences of a specific Group by including its ID in the URL as shown in Table 3.2.

Table 3.2: Set Sequences related to Group - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier

3.3.3 Success response

Listing 3.4: Set Sequences related to Group – Success response

```
{
  "data" : [
    {
      "type" : "sequences",
      "id" : "2",
      "attributes" : {
        "name" : "New set sequence 1",
        "created-at" : "2018-03- 06T14: 58:07+ 00:00",
        "updated-at" : "2018-03- 06T14: 58:07+ 00:00"
      },
      "relationships" : {
        "sets" : {
          "data" : [
            {
              "type" : "sets",
              "id" : "1"
            }
          ],
          "links" : {
            "self" : "
https://talentcards.io/api/v1/company/groups/1/sequences/2/relationships/sets",
            "related" : " https://talentcards.io/api/v1/company/groups/2/sets"
          },
          "meta" : {
            "page_size" : 30,
            "total_count" : 1
          }
        }
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/groups/1/sequences/2",
        "related" : " https://talentcards.io/api/v1/company/groups/1/sequences"
      }
    },
    {
      "type" : "sequences",
      "id" : "3",
      "attributes" : {
        "name" : "New set sequence 2",
        "created-at" : "2018-03- 06T14: 58:31+ 00:00",
        "updated-at" : "2018-03- 06T14: 58:31+ 00:00"
      },
    }
  ],
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/groups/1/sequences",
    "related" : " https://talentcards.io/api/v1/company/groups/1/sequences"
  }
}
```

```

    "relationships" : {
      "sets" : {
        "data" : [
          {
            "type" : "sets",
            "id" : "4"
          }
        ],
        "links" : {
          "self" : "
https://talentcards.io/api/v1/company/groups/1/sequences/3/relationships/sets",
          "related" : " https://talentcards.io/api/v1/company/groups/3/sets"
        },
        "meta" : {
          "page_size" : 30,
          "total_count" : 1
        }
      }
    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/groups/1/sequences/3",
      "related" : " https://talentcards.io/api/v1/company/groups/1/sequences"
    }
  },
  "links" : {
    "first" : "
https://talentcards.io/api/v1/company/groups/1/relationships/sequences?page%5Bnumber%5D=1",
    "last" : "
https://talentcards.io/api/v1/company/groups/1/relationships/sequences?page%5Bnumber%5D=1",
    "prev" : null,
    "next" : null
  },
  "meta" : {
    "current_page" : 1,
    "from" : 1,
    "last_page" : 1,
    "path" : " https://talentcards.io/api/v1/company/groups/1/relationships/sequences",
    "per_page" : 30,
    "to" : 2,
    "total" : 2
  }
}

```

3.4 Sets related to Group

Produces a listing of all the Sets related to the specified Group.

3.4.1 Request URL

```
GET /api/v1/company/groups/{group}/relationships/sets
```

3.4.2 Request URL Parameters

You can request all the Sets related to a specific Group by including its ID in the URL as shown in Table 3.3.

Table 3.3: Sets related to Group - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier

3.4.3 Success response

Listing 3.5: Sets related to Group – Success response

```

{
  "data" : [
    {
      "type" : "sets",
      "id" : "1",
      "attributes" : {
        "name" : "Self understanding",
        "description" : "Self-understanding pinpoints what an employee's likes, dislikes, strengths
        ↪ and other traits are, and inspires personal growth by helping him define his identity.
        ↪ Personality traits affects his behavior and overall success at work.",
        "enabled" : false,
        "single-sided" : false,
        "created-at" : "2018-02- 02T13: 57:28+ 00:00",
        "updated-at" : "2018-03- 21T09: 22:59+ 00:00"
      },
      "relationships" : {
        "groups" : {
          "data" : {
            "type" : "groups",
            "id" : "1"
          },
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/groups",
            "related" : " https://talentcards.io/api/v1/company/groups/1"
          }
        },
        "users" : {
          "data" : [
            {
              "type" : "users",
              "id" : "2"
            }
          ],
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/users",
            "related" : " https://talentcards.io/api/v1/company/groups/1/users"
          },
          "meta" : {
            "page_size" : 30,
            "total_count" : 1
          }
        },
        "sequences" : {
          "data" : {
            "type" : "sequences",
            "id" : "2"
          },
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
            "related" : " https://talentcards.io/api/v1/company/groups/1/sequences/2"
          }
        }
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/1",
        "related" : " https://talentcards.io/api/v1/company/sets"
      }
    },
    {
      "type" : "sets",
      "id" : "2",
      "attributes" : {
        "name" : "D-day",
        "description"
        : "During World War II (1939-1945), the Battle of Normandy, which lasted from June 1944 to
        ↪ August 1944, resulted in the Allied liberation of Western Europe from Nazi Germany's

```

```

↪ control. The invasion was one of the largest amphibious military assaults in history. The
↪ Normandy landings have been called the beginning of the end of war in Europe.",
    "enabled" : false,
    "single-sided" : false,
    "created-at" : "2018-02- 02T13: 57:28+ 00:00",
    "updated-at" : "2018-03- 06T14: 58:07+ 00:00"
  },
  "relationships" : {
    "groups" : {
      "data" : {
        "type" : "groups",
        "id" : "1"
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/groups",
        "related" : " https://talentcards.io/api/v1/company/groups/1"
      }
    },
    "users" : {
      "data" : [
        {
          "type" : "users",
          "id" : "2"
        }
      ],
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/users",
        "related" : " https://talentcards.io/api/v1/company/groups/1/users"
      },
      "meta" : {
        "page_size" : 30,
        "total_count" : 1
      }
    },
    "sequences" : {
      "data" : {
        "type" : "sequences",
        "id" : "2"
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
        "related" : " https://talentcards.io/api/v1/company/groups/1/sequences/2"
      }
    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/sets/2",
      "related" : " https://talentcards.io/api/v1/company/sets"
    }
  },
  "links" : {
    "first" : "
https://talentcards.io/api/v1/company/groups/1/relationships/sets?page%5Bnumber%5D=1",
    "last" : "
https://talentcards.io/api/v1/company/groups/1/relationships/sets?page%5Bnumber%5D=1",
    "prev" : null,
    "next" : null
  },
  "meta" : {
    "current_page" : 1,
    "from" : 1,
    "last_page" : 1,
    "path" : " https://talentcards.io/api/v1/company/groups/1/relationships/sets",
    "per_page" : 30,
    "to" : 2,
    "total" : 2
  }
}

```

3.5 User Create

Creates a new User in the specified Group.

3.5.1 Request URL

```
POST https://www.talentcards.io/api/v1/company/groups/{group}/users
```

3.5.2 Request URL Parameters

You can create a new User in a specific Group by including the Group's ID in the URL as shown in Table 3.4.

Table 3.4: User Create - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier

3.5.3 Request Body

Listing 3.6: User Create – Request body

```
{
  "data" : {
    "type" : "users",
    "attributes" : {
      "first-name" : "John",
      "last-name" : "Doe",
      "email" : "john@example.com",
      "mobile" : "2025550183",
      "mobile_country" : "US",
      "enabled" : true
    }
  }
}
```

3.5.4 Request Body Parameters

Table 3.5 lists all the request body parameters for creating a User.

Table 3.5: User Create - Body parameters

Parameter	Required	Type	Description
data	Yes	Object	Request container
type	Yes	String	Resource type. Must be equal to “users”
attributes	Yes	Object	Resource attributes container
first-name	Yes	String	User name
last-name	Yes	String	User surname
email	Yes*	String	User email
mobile	Yes**	String	User mobile without international code prefix
mobile_country	Yes***	String	ISO 3166-1 alpha-2 country code [3]
enabled	Yes	Boolean	User status

* The email field is required when there is no mobile field supplied.

** The mobile field is required when there is no email field supplied.

*** The mobile_country field is required when there is a mobile field supplied.

3.5.5 Success response

When the resource is successfully created the server responds with a HTTP 201 status code. The response’s location header indicates the link for the newly created resource in addition to the links object in the response body. The response body is shown in Listing 3.7.

Listing 3.7: User Create – Success response

```
{
  "type" : "users",
  "id" : "109",
  "attributes" : {
    "enabled" : true,
    "email" : "johndoe@example.com",
    "first-name" : "John",
    "last-name" : "Doe",
    "mobile" : "+12025550183",
    "created-at" : "2018-03- 30T09: 07:25+ 00:00",
    "updated-at" : "2018-03- 30T09: 07:25+ 00:00"
  }
}
```

```

},
"relationships" : {
  "sets" : {
    "data" : [
      {
        "type" : "sets",
        "id" : "1"
      }
    ],
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/users/109/relationships/sets"
    },
    "meta" : {
      "page_size" : 30,
      "total_count" : 1
    }
  }
},
"links" : {
  "self" : " https://talentcards.io/api/v1/company/users/109",
  "related" : " https://talentcards.io/api/v1/company/groups/1"
}
}

```

3.6 User Activate/Deactivate

Activates or deactivates a single User from the specified Group.

3.6.1 Request URL

PATCH <https://www.talentcards.io/api/v1/company/groups/{group}/users/{user}>

3.6.2 Request URL Parameters

You can update a User's status in specific Group by including the necessary parameters in the URL as shown in Table 3.6. In version v1, only a User's status can be updated through the API.

Table 3.6: User Activate/Deactivate - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier
{user}	Yes	Numeric	User identifier

3.6.3 Request Body

Listing 3.8: User Activate/Deactivate – Request Body

```

{
  "data" : {
    "type" : "users",
    "id" : 72,
    "attributes" : {
      "enabled" : false
    }
  }
}

```

3.6.4 Request Body Parameters

Table 3.7 lists all the request body parameters for updating a User's status.

Table 3.7: User Activate/Deactivate - Body parameters

Parameter	Required	Type	Description
data	Yes	Object	Request container
type	Yes	String	Resource type. Must be equal to "users"
attributes	Yes	Object	Resource attributes container
id	Yes*	String	User identifier
enabled	Yes	Boolean	User status

* The id field is required as per JSON:API standard[2].

3.6.5 Success response

When the resource is successfully updated the server responds with a HTTP 200 status code. The response body is shown in Listing 3.9:

Listing 3.9: User Activate/Deactivate - Success response

```
{
  "type" : "users",
  "id" : "74",
  "attributes" : {
    "enabled" : false,
    "email" : null,
    "first-name" : "John",
    "last-name" : "Doe",
    "mobile" : "+12025550184",
    "created-at" : "2018-03- 19T10: 05:37+ 00:00",
    "updated-at" : "2018-04- 03T12: 02:26+ 00:00"
  },
  "relationships" : {
    "sets" : {
      "data" : [],
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/users/74/relationships/sets"
      },
      "meta" : {
        "page_size" : 30,
        "total_count" : 0
      }
    }
  },
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/users/74",
    "related" : " https://talentcards.io/api/v1/company/groups/1"
  }
}
```


3.7 User Reports

Retrieves the reports for a single User from the specified Group.

3.7.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/groups/{group}/users/{user}/reports
```

3.7.2 Request URL Parameters

You can retrieve all the reports for a specific User that belongs to a specific Group by including the necessary parameters in the URL as shown in Table 3.8.

Table 3.8: User Reports - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier
{user}	Yes	Numeric	User identifier

3.7.3 Success response

Listing 3.10: User Reports – Success response

```
{
  "data" : [
    {
      "type" : "sequence-reports",
      "id" : "2",
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/groups/1/sequences/2",
        "related" : " https://talentcards.io/api/v1/company/groups/1/users/74"
      },
      "meta" : {
        "reports" : [
          {
            "type" : "set-reports",
            "id" : "1",
            "links" : {
              "self" : " https://talentcards.io/api/v1/company/groups/1/sets/1",
              "related" : " https://talentcards.io/api/v1/company/groups/1/sets"
            },
            "meta" : {
              "report" : {
                "set-tests" : 3,
                "finished-tests" : 0,
                "progress" : 0,
                "cards" : 4,
                "tests" : 3,
                "started-at" : null,
                "completed-at" : null
              }
            }
          }
        ]
      }
    }
  ],
  {
    "type" : "set-reports",
    "id" : "1",
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/groups/1/sets/1",
      "related" : " https://talentcards.io/api/v1/company/groups/1/sets"
```

```

    },
    "meta" : {
      "report" : {
        "set-tests" : 3,
        "finished-tests" : 0,
        "progress" : 0,
        "cards" : 4,
        "tests" : 3,
        "started-at" : null,
        "completed-at" : null
      }
    }
  ],
  "links" : {
    "first" : "
https://talentcards.io/api/v1/company/groups/1/users/74/reports?page%5Bnumber%5D=1",
    "last" : " https://talentcards.io/api/v1/company/groups/1/users/74/reports?page%5Bnumber%5D=1",
    "prev" : null,
    "next" : null
  },
  "meta" : {
    "current_page" : 1,
    "from" : 1,
    "last_page" : 1,
    "path" : " https://talentcards.io/api/v1/company/groups/1/users/74/reports",
    "per_page" : 25,
    "to" : 2,
    "total" : 2
  }
}

```

3.8 Sets of User

Retrieves all the Sets associated with a single User from the specified Group.

3.8.1 Request URL

GET <https://www.talentcards.io/api/v1/company/groups/{group}/users/{user}/relationships/sets>

3.8.2 Request URL Parameters

You can retrieve a specific User's Sets by including the necessary parameters in the URL as shown in Table 3.9.

Table 3.9: Sets of User - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier
{user}	Yes	Numeric	User identifier

3.8.3 Success response

When the resources are successfully retrieved the server responds with a HTTP 200 status code. The response body is shown in Listing 3.11:

Listing 3.11: Sets of User – Success response

```
{
```

```

"data" : [
  {
    "type" : "sets",
    "id" : "1",
    "attributes" : {
      "name" : "Self understanding",
      "description" : "Self-understanding pinpoints what an employee's likes, dislikes, strengths
↪ and other traits are, and inspires personal growth by helping him define his identity.
↪ Personality traits affects his behavior and overall success at work.",
      "enabled" : true,
      "single-sided" : false,
      "created-at" : "2018-02- 02T13: 57:28+ 00:00",
      "updated-at" : "2018-04- 04T07: 53:55+ 00:00"
    },
    "relationships" : {
      "groups" : {
        "data" : {
          "type" : "groups",
          "id" : "1"
        },
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/groups",
          "related" : " https://talentcards.io/api/v1/company/groups/1"
        }
      },
      "users" : {
        "data" : [
          {
            "type" : "users",
            "id" : "2"
          }
        ],
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/users",
          "related" : " https://talentcards.io/api/v1/company/groups/1/users"
        },
        "meta" : {
          "page_size" : 30,
          "total_count" : 2
        }
      },
      "sequences" : {
        "data" : {
          "type" : "sequences",
          "id" : "2"
        },
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
          "related" : " https://talentcards.io/api/v1/company/groups/1/sequences/2"
        }
      }
    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/sets/1",
      "related" : " https://talentcards.io/api/v1/company/sets"
    }
  },
  {
    "type" : "sets",
    "id" : "2",
    "attributes" : {
      "name" : "D-day",
      "description"
      : "During World War II (1939-1945), the Battle of Normandy, which lasted from June 1944 to
↪ August 1944, resulted in the Allied liberation of Western Europe from Nazi Germany's
↪ control. The invasion was one of the largest amphibious military assaults in history. The
↪ Normandy landings have been called the beginning of the end of war in Europe.",
      "enabled" : false,
      "single-sided" : false,
      "created-at" : "2018-02- 02T13: 57:28+ 00:00",
      "updated-at" : "2018-03- 06T14: 58:07+ 00:00"
    }
  }
]

```

```

    },
    "relationships" : {
      "groups" : {
        "data" : {
          "type" : "groups",
          "id" : "1"
        },
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/groups",
          "related" : " https://talentcards.io/api/v1/company/groups/1"
        }
      },
      "users" : {
        "data" : [
          {
            "type" : "users",
            "id" : "2"
          }
        ],
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/users",
          "related" : " https://talentcards.io/api/v1/company/groups/1/users"
        },
        "meta" : {
          "page_size" : 30,
          "total_count" : 1
        }
      },
      "sequences" : {
        "data" : {
          "type" : "sequences",
          "id" : "2"
        },
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
          "related" : " https://talentcards.io/api/v1/company/groups/1/sequences/2"
        }
      }
    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/sets/2",
      "related" : " https://talentcards.io/api/v1/company/sets"
    }
  },
  "links" : {
    "first" : "
https://talentcards.io/api/v1/company/groups/1/users/2/relationships/sets?page%5Bnumber%5D=1",
    "last" : "
https://talentcards.io/api/v1/company/groups/1/users/2/relationships/sets?page%5Bnumber%5D=1",
    "prev" : null,
    "next" : null
  },
  "meta" : {
    "current_page" : 1,
    "from" : 1,
    "last_page" : 1,
    "path" : " https://talentcards.io/api/v1/company/groups/1/users/2/relationships/sets",
    "per_page" : 30,
    "to" : 2,
    "total" : 2
  }
}

```

3.9 User Assign Sets

Associates the submitted Sets with a single User from the specified Group.

3.9.1 Request URL

POST <https://www.talentcards.io/api/v1/company/groups/{group}/users/{user}/relationships/sets>

3.9.2 Request URL Parameters

Table 3.10 lists all the required URL parameters of the request.

Table 3.10: User Assign Sets - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier
{user}	Yes	Numeric	User identifier

3.9.3 Request Body

Listing 3.12: User Assign Sets – Request body

```
{
  "data" : [
    { "type" : "sets", "id" : "1" }
  ]
}
```

3.9.4 Request Body Parameters

Table 3.11 lists all the request body parameters for assigning Sets to a User of a specific Group.

Table 3.11: User Assign Sets - Body Parameters

Parameter	Required	Type	Description
data	Yes	Object	Request container
type	Yes*	String	Resource type(must be equal to “sets”)
id	Yes*	String	Set identifier

* For each object inside the data array

3.9.5 Success response

When the resource is successfully updated, the server will respond with a HTTP 204 No Content status code.

3.10 User Unassign Sets

Deassociates the submitted Sets from the requested User from the specified Group.

3.10.1 Request URL

DELETE <https://www.talentcards.io/api/v1/company/groups/{group}/users/{user}/relationships/sets>

Table 3.12: User Unassign Sets - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier
{user}	Yes	Numeric	User identifier

3.10.2 Request URL Parameters

Table 3.12 lists all the required URL parameters of the request.

3.10.3 Request Body

Listing 3.13: User Unassign Sets – Request body

```
{
  "data" : [
    { "type" : "sets", "id" : "1" },
    { "type" : "sets", "id" : "2" }
  ]
}
```

3.10.4 Request Body Parameters

Table 3.13 lists all the request body parameters for unassigning Sets from a User of a specific Group.

Table 3.13: User Unassign Sets - Body Parameters

Parameter	Required	Type	Description
data	Yes	Object	Request container
type	Yes*	String	Resource type (must be equal to “sets”)
id	Yes*	String	Set identifier

* For each object inside the data array

3.10.5 Success response

When the resource is successfully updated the server responds with a HTTP 204 No Content status code.

3.11 Set Sequences of Group

Produces a listing of all the Set Sequences from the specified Group.

3.11.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/groups/{group}/sequences
```

3.11.2 Success response

Listing 3.14: Set Sequences of Group – Success response

```
{
  "data" : [
    {
      "type" : "sequences",
      "id" : "2",
      "attributes" : {
        "name" : "New set sequence 1",
        "created-at" : "2018-03- 06T14: 58:07+ 00:00",
        "updated-at" : "2018-03- 06T14: 58:07+ 00:00"
      },
      "relationships" : {
        "sets" : {
          "data" : [
            {
              "type" : "sets",
              "id" : "1"
            },
            {
              "type" : "sets",
              "id" : "2"
            }
          ]
        },
        "links" : {
          "self" : "https://talentcards.io/api/v1/company/groups/1/sequences/2/relationships/sets",
          "related" : "https://talentcards.io/api/v1/company/groups/2/sets"
        },
        "meta" : {
          "page_size" : 30,
          "total_count" : 2
        }
      }
    },
    {
      "type" : "sequences",
      "id" : "3",
      "attributes" : {
        "name" : "New set sequence 2",
        "created-at" : "2018-03- 06T14: 58:31+ 00:00",
        "updated-at" : "2018-03- 06T14: 58:31+ 00:00"
      },
      "relationships" : {
        "sets" : {
          "data" : [
            {
              "type" : "sets",
              "id" : "4"
            }
          ]
        },
        "links" : {
          "self" : "https://talentcards.io/api/v1/company/groups/1/sequences/2",
          "related" : "https://talentcards.io/api/v1/company/groups/1/sequences"
        }
      }
    }
  ],
  "links" : {
    "self" : "https://talentcards.io/api/v1/company/groups/1/sequences/2",
    "related" : "https://talentcards.io/api/v1/company/groups/1/sequences"
  },
  "meta" : {
    "page_size" : 30,
    "total_count" : 2
  }
}
```

```

        "id" : "5"
      },
    ],
    "links" : {
      "self" : "
https://talentcards.io/api/v1/company/groups/1/sequences/3/relationships/sets",
      "related" : " https://talentcards.io/api/v1/company/groups/3/sets"
    },
    "meta" : {
      "page_size" : 30,
      "total_count" : 2
    }
  }
},
"links" : {
  "self" : " https://talentcards.io/api/v1/company/groups/1/sequences/3",
  "related" : " https://talentcards.io/api/v1/company/groups/1/sequences"
}
}
],
"links" : {
  "first" : " https://talentcards.io/api/v1/company/groups/1/sequences?page%5Bnumber%5D=1",
  "last" : " https://talentcards.io/api/v1/company/groups/1/sequences?page%5Bnumber%5D=1",
  "prev" : null,
  "next" : null
},
"meta" : {
  "current_page" : 1,
  "from" : 1,
  "last_page" : 1,
  "path" : " https://talentcards.io/api/v1/company/groups/1/sequences",
  "per_page" : 30,
  "to" : 2,
  "total" : 2
}
}
}

```

3.12 Set Sequence of Group

Retrieves a single Set Sequence from a single Group.

3.12.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/groups/{group}/sequences/{sequence}
```

3.12.2 Request URL Parameters

You can request a specific Set Sequence from a specific Group by including the necessary parameters in the URL as shown in Table 3.14.

Table 3.14: Set Sequence of Group - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier
{sequence}	Yes	Numeric	Set Sequence identifier

3.12.3 Success response

Listing 3.15: Set Sequence of Group – Success response

```
{
  "type" : "sequences",
  "id" : "2",
  "attributes" : {
    "name" : "New set sequence",
    "created-at" : "2018-03- 06T14: 58:07+ 00:00",
    "updated-at" : "2018-03- 06T14: 58:07+ 00:00"
  },
  "relationships" : {
    "sets" : {
      "data" : [
        {
          "type" : "sets",
          "id" : "1"
        },
        {
          "type" : "sets",
          "id" : "2"
        }
      ]
    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/groups/1/sequences/2/relationships/sets",
      "related" : " https://talentcards.io/api/v1/company/groups/2/sets"
    },
    "meta" : {
      "page_size" : 30,
      "total_count" : 2
    }
  }
},
"links" : {
  "self" : " https://talentcards.io/api/v1/company/groups/1/sequences/2",
  "related" : " https://talentcards.io/api/v1/company/groups/1/sequences"
}
}
```

3.12.4 Error response

Listing 3.16: Set Sequence of Group – Error response

```
{
  "errors" : [
    {
      "status" : "404",
      "code" : 1204,
      "title" : "No resource matches for specified terms",
      "detail" : "Corresponds with HTTP 404. It was not possible to find a resource matching
↪ the parameters specified."
    }
  ]
}
```

3.13 Sets related to Set Sequence

Retrieves all the Sets related to a single Set Sequence from the specified Group.

3.13.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/groups/{group}/sequences/{sequence}/relationships/sets
```

3.13.2 Success response

Listing 3.17: Sets related to Set Sequence – Success response

```
{
  "data" : [
    {
      "type" : "sets",
      "id" : "1",
      "attributes" : {
        "name" : "Self understanding",
        "description" : "Self-understanding pinpoints what an employee's likes, dislikes, strengths
        ↳ and other traits are, and inspires personal growth by helping him define his identity.
        ↳ Personality traits affects his behavior and overall success at work.",
        "enabled" : false,
        "single-sided" : false,
        "created-at" : "2018-02- 02T13: 57:28+ 00:00",
        "updated-at" : "2018-03- 21T09: 22:59+ 00:00"
      },
      "relationships" : {
        "groups" : {
          "data" : {
            "type" : "groups",
            "id" : "1"
          },
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/groups",
            "related" : " https://talentcards.io/api/v1/company/groups/1"
          }
        },
        "users" : {
          "data" : [
            {
              "type" : "users",
              "id" : "2"
            }
          ],
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/users",
            "related" : " https://talentcards.io/api/v1/company/groups/1/users"
          },
          "meta" : {
            "page_size" : 30,
            "total_count" : 1
          }
        },
        "sequences" : {
          "data" : {
            "type" : "sequences",
            "id" : "2"
          },
          "links" : {
            "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
            "related" : " https://talentcards.io/api/v1/company/groups//sequences/2"
          }
        }
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/1",

```

```

    "related" : " https://talentcards.io/api/v1/company/sets"
  }
},
"links" : {
  "first" : "
https://talentcards.io/api/v1/company/sequences/2/relationships/sets?page%5Bnumber%5D=1",
  "last" : "
https://talentcards.io/api/v1/company/sequences/2/relationships/sets?page%5Bnumber%5D=1",
  "prev" : null,
  "next" : null
},
"meta" : {
  "current_page" : 1,
  "from" : 1,
  "last_page" : 1,
  "path" : " https://talentcards.io/api/v1/company/sequences/2/relationships/sets",
  "per_page" : 30,
  "to" : 1,
  "total" : 1
}
}

```

3.14 Sets of Group

Produces a listing of all the Sets from the specified Group.

3.14.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/groups/{group}/sets
```

3.14.2 Request URL Parameters

You can request all the Sets from a specific Group by including the necessary parameters in the URL as shown in Table 3.15.

Table 3.15: Sets of Group

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier

3.14.3 Success response

Listing 3.18: Sets of Group – Success response

```

{
  "data" : [
    {
      "type" : "sets",
      "id" : "4",
      "attributes" : {
        "name" : "Dinosaurs",
        "description" : "Dinosaurs appeared in the Upper Triassic, about 231 million years ago. By
↳ the early Jurassic they were the top land vertebrates, and dominated most environments on
↳ land. They continued until their sudden extinction 66 million years ago. Birds are the
↳ descendants of theropod dinosaurs; all the terrestrial dinosaurs are extinct.",
        "enabled" : true,
        "single-sided" : false,
        "created-at" : "2018-02- 02T13: 57:28+ 00:00",
        "updated-at" : "2018-03- 06T14: 58:31+ 00:00"
      }
    }
  ]
}

```

```

    },
    "relationships" : {
      "groups" : {
        "data" : {
          "type" : "groups",
          "id" : "1"
        },
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/4/relationships/groups",
          "related" : " https://talentcards.io/api/v1/company/groups/1"
        }
      },
      "users" : {
        "data" : [
          {
            "type" : "users",
            "id" : "2"
          }
        ],
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/4/relationships/users",
          "related" : " https://talentcards.io/api/v1/company/groups/1/users"
        },
        "meta" : {
          "page_size" : 30,
          "total_count" : 1
        }
      },
      "sequences" : {
        "data" : {
          "type" : "sequences",
          "id" : "3"
        },
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/3/relationships/sequences",
          "related" : " https://talentcards.io/api/v1/company/groups/1/sequences/3"
        }
      }
    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/sets/4",
      "related" : " https://talentcards.io/api/v1/company/sets"
    }
  },
  {
    "type" : "sets",
    "id" : "5",
    "attributes" : {
      "name" : "History of music",
      "description" : "Music is found in every known culture, past and present, varying widely
↪ between times and places. Since all people of the world, including the most isolated tribal
↪ groups, have a form of music, it may be concluded that music is likely to have been
↪ present in the ancestral population prior to the dispersal of humans around the world.",
      "enabled" : true,
      "single-sided" : false,
      "created-at" : "2018-02- 02T13: 57:28+ 00:00",
      "updated-at" : "2018-03- 06T14: 58:31+ 00:00"
    },
    "relationships" : {
      "groups" : {
        "data" : {
          "type" : "groups",
          "id" : "1"
        },
        "links" : {
          "self" : " https://talentcards.io/api/v1/company/sets/5/relationships/groups",
          "related" : " https://talentcards.io/api/v1/company/groups/1"
        }
      },
      "users" : {

```

```
    "data" : [
      {
        "type" : "users",
        "id" : "2"
      }
    ],
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/sets/5/relationships/users",
      "related" : " https://talentcards.io/api/v1/company/groups/1/users"
    },
    "meta" : {
      "page_size" : 30,
      "total_count" : 1
    }
  },
  "sequences" : {
    "data" : {
      "type" : "sequences",
      "id" : "3"
    },
    "links" : {
      "self" : " https://talentcards.io/api/v1/company/sets/3/relationships/sequences",
      "related" : " https://talentcards.io/api/v1/company/groups/1/sequences/3"
    }
  },
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/sets/5",
    "related" : " https://talentcards.io/api/v1/company/sets"
  }
},
"links" : {
  "first" : " https://talentcards.io/api/v1/company/groups/1/sets?page%5Bnumber%5D=1",
  "last" : " https://talentcards.io/api/v1/company/groups/1/sets?page%5Bnumber%5D=1",
  "prev" : null,
  "next" : null
},
"meta" : {
  "current_page" : 1,
  "from" : 1,
  "last_page" : 1,
  "path" : " https://talentcards.io/api/v1/company/groups/1/sets",
  "per_page" : 30,
  "to" : 5,
  "total" : 5
}
}
```

3.15 Set of Group

Retrieves a single Set from the specified Group.

3.15.1 Request URL

```
GET https://www.talentcards.io/api/v1/company/{groups}/{group}/sets/{set}
```

3.15.2 Request URL Parameters

You can request a specific Set that belongs to a specific Group by including the necessary parameters in the URL as shown in Table 3.16.

Table 3.16: Set of Group - URL parameters

Parameter	Required	Type	Description
{group}	Yes	Numeric	Group identifier
{set}	Yes	Numeric	Sequence identifier

3.15.3 Success response

Listing 3.19: Set of Group – Success response

```
{
  "type" : "sets",
  "id" : "1",
  "attributes" : {
    "name" : "Self understanding",
    "description" : "Self-understanding pinpoints what an employee's likes, dislikes, strengths and
    ↳ other traits are, and inspires personal growth by helping him define his identity.
    ↳ Personality traits affects his behavior and overall success at work.",
    "enabled" : false,
    "single-sided" : false,
    "created-at" : "2018-02- 02T13: 57:28+ 00:00",
    "updated-at" : "2018-03- 21T09: 22:59+ 00:00"
  },
  "relationships" : {
    "groups" : {
      "data" : {
        "type" : "groups",
        "id" : "1"
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/groups",
        "related" : " https://talentcards.io/api/v1/company/groups/1"
      }
    },
    "users" : {
      "data" : [
        {
          "type" : "users",
          "id" : "2"
        }
      ],
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/1/relationships/users",
        "related" : " https://talentcards.io/api/v1/company/groups/1/users"
      },
      "meta" : {
        "page_size" : 30,
        "total_count" : 1
      }
    }
  }
}
```

```
    },
    "sequences" : {
      "data" : {
        "type" : "sequences",
        "id" : "2"
      },
      "links" : {
        "self" : " https://talentcards.io/api/v1/company/sets/2/relationships/sequences",
        "related" : " https://talentcards.io/api/v1/company/groups/1/sequences/2"
      }
    }
  },
  "links" : {
    "self" : " https://talentcards.io/api/v1/company/sets/1",
    "related" : " https://talentcards.io/api/v1/company/sets"
  }
}
```

3.15.4 Error response

Listing 3.20: Set of Group – Error response

```
{
  "errors" : [
    {
      "status" : "404",
      "code" : 1204,
      "title" : "No resource matches for specified terms",
      "detail" : "Corresponds with HTTP 404. It was not possible to find a resource matching
↪ the parameters specified."
    }
  ]
}
```



Consuming the API

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4. API Library

We have prepared a PHP library to get you started consuming the API. The API library is designed with a fluent interface with the goal of making the readability of the source code close to that of ordinary written prose, thus making it easier to read and write.

4.1 Requirements

You will need to make sure your project meets the following requirements:

- PHP version ≥ 5.4

4.2 Installation

The API Library code is available at our corporate github repository. You will be able to automatically include it in your composer compatible project by running the following command at your project root folder from the terminal.

```
composer require epignosis/talentcards-api-wrapper
```

4.3 Configuration

This guide will walk you through the process of configuring the API Library for using it in your project.

4.3.1 Getting your API token

The first thing you should do after installing the library in your project is to get the API access token. For step by step instructions you can take a look at the following article in our knowledge database:

```
http://help.talentcards.io/generic/how-to-integrate-with-another-system
```

Once you have the API key you can create a new instance of the API Library and set the access key with its “setKey” method.

4.3.2 Client Initialization

Next you have to pass the client object as a parameter into the TalentCards factory object as shown in listing 4.1.

Listing 4.1: API Library Configuration

```
<?php

use Epignosis\TalentCards\Client;
use Epignosis\TalentCards\Factory;

$client = new Client;

$client->setKey('TOKEN_HERE');

$talentCards = new Factory($client);
```

The Factory object can instantiate two wrapper objects, one for account level endpoints and one for group level endpoints. You access them by chaining the respective methods to the Factory object as shown in Listing 4.2.

Listing 4.2: API Library methods

```
<?php
// Account level wrapper
$account = $talentCards->account();

// Group level wrapper
$group = $talentCards->group();
```

In Tables 4.1 and 4.2 there is a comprehensive list of all available methods for each object, and their mapping to the actual API endpoints.

Table 4.1: API Library - Account level mappings

Method	Endpoint
info()	/company
me()	/company/me
groups()	/company/groups
users()	/company/users
sequences()	/company/sequences
sets()	/company/sets

Table 4.2: API Library - Group level mappings

Method	Endpoint
users()	/company/group/{groupId}/users
sequences()	/company/{groupId}/sequences
sets()	/company/{groupId}/sets

4.4 RESTful API interface

The final step to make the request, is to chain one of the RESTful methods and provide it with any parameters or data as necessary. In Table 4.3 you can find all the chainable methods that can be used to make an API call. Refer to Listing 5.4 to see the supported methods for each object.

Table 4.3: API Library - RESTful interface

Method Definition	Description
all(\$parameters)	Returns a collection of resources
find(\$id, \$parameters)	Returns a single resource by its Identifier
related(\$type, \$id, \$parameters)	Returns a collection of related resources
update(\$id, \$data)	Updates a single resource ¹
create(\$data)	Creates a resource ²
enroll(\$id, \$data)	Associates data with the resource ³
disenroll(\$id, \$data)	Dissociates the provided data from the resource ³

¹ Only for Set/User Activate/Deactivate.

² Only for User Create.

³ Only for User Assign/Unassign Sets.

5. Examples

In this chapter we will examine some specific examples of using the API library to interact with the API.

5.1 Filtering Users

Let us imagine that you want to find all users with a first name of “John”. You can easily accomplish this by passing a “filter” query parameter along with your request to the API.

As you can see in Listing 5.1 the “account” method on the TalentCards factory instance has to be called, and then you have to chain the users() method. As a last step chain the all() method and pass the query variable as a parameter.

Listing 5.1: API Library: Filtering Users

```
<?php

use Epignosis\TalentCards\Client;
use Epignosis\TalentCards\Factory;

$key = 'TOKEN_HERE';

$client = new Client;
$client->setKey($key);
$talentCards = new Factory($client);

$query = [
    'filter' => [
        'first-name' => 'John',
    ],
];

try {
    $response = $talentCards->account()->users()->all($query);

    if (! count($response['data'])) {
        echo 'No Users matched your query'.PHP_EOL;
        exit;
    }

    foreach ($response['data'] as $u) {
        echo $u['attributes']['last-name'].' '.$u['attributes']['first-name'].PHP_EOL;
    }
} catch (\Exception $e) {
    echo $e->getMessage();
    exit;
}
```

5.2 Finding all Users of a Group

Let's assume that we don't have the Group's identifier available. We will look it up using the Group's name instead.

As shown in Listing 5.2, call the “account” method on the TalentCards factory instance and then chain the “groups” and “all” methods passing the query variable as a parameter on the latter. This will return an array of data representing the “MyGroup” Group.

Call the “group” method on the TalentCards factory together with the Group's identifier we retrieved from the previous look-up. This will filter all further requests by the specified Group.

To get the results simply chain the “users” and the “all” methods to the group object.

Listing 5.2: Finding all Users of a Group

```
<?php

use Epignosis\TalentCards\Client;
use Epignosis\TalentCards\Factory;

$key = 'TOKEN_HERE';

$client = new Client;
$client->setKey($key);
$talentCards = new Factory($client);

/** @var \Epignosis\TalentCards\Account $account */
$account = $talentCards->account();

$query = [
    'filter' => [
        'name' => 'MyGroup',
    ],
];

try {

    $groups = $account->groups()->all($query);

    if (! count($groups['data'])) {
        echo 'No Groups matched your query'.PHP_EOL;
        exit;
    }

    $groupId = $groups['data'][0]['id'];
    $group = $talentCards->group($groupId);
    $users = $group->users()->all();

    if (! count($users['data'])) {
        echo 'No Users matched your query'.PHP_EOL;
        exit;
    }

    foreach ($users['data'] as $u) {
        echo $u['attributes']['last-name'].' '.$u['attributes']['first-name'].PHP_EOL;
    }
} catch (\Exception $e) {
    echo $e->getMessage();
    exit;
}
```

5.3 Creating a User

The following source code shows an example of how to use the TalentCards API library to create a User.

Listing 5.3: Creating a User

```
<?php

use Epignosis\TalentCards\Client;
use Epignosis\TalentCards\Factory;

$key = 'TOKEN_HERE';

$client = new Client;
$client->setKey($key);
$talentCards = new Factory($client);

$request_body = [
    'type' => 'users',
    'attributes' => [
        'first-name' => 'John',
        'last-name' => 'Doe',
        'email' => 'johnd@example.com',
        'mobile' => '2025550260',
        'mobile_country' => 'US',
        'enabled' => true,
    ],
];

$group_id = '1';

try {
    $group = $talentCards->group($group_id);

    $group->users()->create($request_body);
} catch (\Exception $e) {
    $e->getMessage();
    exit;
}
```

5.4 Available methods

The following source code shows an extended example of how to use the API library to consume the TalentCards API.

Listing 5.4: Examples - Available methods

```
<?php

use Epignosis\TalentCards\Client;
use Epignosis\TalentCards\Factory;

try {
    $key = 'TOKEN_HERE';

    $client = new Client;

    $client->setKey($key);

    $talentCards = new Factory($client);

    $acc = $talentCards->account();

    $grp = $talentCards->group('1');

    /**
     * Account level requests
     */

    $accountInfo = $acc->info();

    $authenticatedUser = $acc->me();

    $accountGroups = $acc->groups()->all([]);

    $accountGroup = $acc->groups()->find('1', []);

    $queryString = [
        'filter' => ['first-name' => 'John'],
        'sort'   => ['-email'],
        'fields' => [
            'users' => [
                'last-name',
                'email',
            ],
        ],
    ];

    $accountUsers = $acc->users()->all($queryString);

    $accountUser = $acc->users()->find('2', []);

    $accountUserSets = $acc->users()->related('sets', '2', []);

    $accountSequences = $acc->sequences()->all([]);

    $accountSequence = $acc->sequences()->find('2', []);

    $accountSequenceSets = $acc->sequences()->related('sets', '2', []);

    $accountSequenceGroup = $acc->sequences()->related('groups', '2', []);

    $accountSets = $acc->sets()->all([]);

    $accountSet = $acc->sets()->find('3', []);
}
```

```

$setData = [
    'type'      => 'sets',
    'id'        => '3',
    'attributes' => ['enabled' => true],
];

$accountSetUpdate = $acc->sets()->update('3', $setData);

$accountSetUsers = $acc->sets()->related('users', '3', []);

$accountSetGroup = $acc->sets()->related('groups', '3', []);

/**
 * Group level requests
 */

$groupUsers = $grp->users()->all([]);

$groupUser = $grp->users()->find('2', []);

$groupUserReport = $grp->users()->reportsFor('2');

$groupUserSets = $grp->users()->related('sets', '2', []);

$createData = [
    'type'      => 'users',
    'attributes' => [
        'first-name' => 'John',
        'last-name'  => 'Doe',
        'email'       => 'johnd@example.com',
        'mobile'      => '2025550233',
        'mobile_country' => 'US',
        'enabled'     => true,
    ],
];

$groupUserCreate = $grp->users()->create($createData);

$userData = [
    'type'      => 'users',
    'id'        => '2',
    'attributes' => ['enabled' => true],
];

$groupUserUpdate = $grp->users()->update('2', $userData);

$sets = [
    ['type' => 'sets', 'id' => '1'],
    ['type' => 'sets', 'id' => '2'],
    ['type' => 'sets', 'id' => '3'],
    ['type' => 'sets', 'id' => '4'],
    ['type' => 'sets', 'id' => '5'],
];

$groupUserAssignSets = $grp->users()->enroll('2', $sets);

$groupUserUnassignSets = $grp->users()->disenroll('2', $sets);

$groupSequences = $grp->sequences()->all([]);

$groupSequence = $grp->sequences()->find('2', []);

$groupSets = $grp->sets()->all();

$groupSet = $grp->sets()->find('3', []);
} catch (\Exception $e) {
    echo $e->getMessage();
    exit;
}

```


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