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NNELS API v1.x Documentation

Version 0.5 used Services and Services Views.
Version 1.x uses RESTful framework.

Current Testing Server

| | |
|---------------|---|
| Host | dev.nnels.ca |
| Base Endpoint | api |
| Example | https://dev.nnels.ca/api/v[:version.minor]/[:resource]/ |

Notes

- Authenticate against the <api_endpoint>/login-token/ resource with Basic Authentication to gain **access_token**
- Bear the **access_token** for authorization for all other requests before its expiry period.
- Refresh against <api_endpoint>/refresh-token/ with the **refresh_token** supplied by initial authentication
- If receiving uid 0 back from a specific user request, this means your access token expired.

Discover Resources and their versions

To discover a list of available resources and the latest version for each, issue:

```
GET /api/
Host: [:current host]
```

AuthN

Request Example

Use Basic Auth to encode username:pass

```
GET /api/login-token HTTP/1.1
Host: dev.nnels.ca
Authorization: Basic dGVzdC1hY2NvdW50m5vdFJlYWw=
```

Response structure

```
{
  "data": [
    {
```

```
    "access_token": {
      "data": {
        "type": "text",
        "required": false
      },
      "info": {
        "label": "Token",
        "description": "Authentication token \"token\""
      }
    },
    "expires_in": {
      "data": {
        "type": "integer",
        "required": false
      },
      "info": {
        "label": "Expire",
        "description": "Authentication token \"expire\""
      }
    },
    "refresh_token": {
      "info": {
        "label": "Refresh token",
        "description": "Token used to get a new access token
once it is expired."
      }
    }
  ],
  "self": {
    "title": "Self",
    "href": "https://dev.nnels.ca/api/login-token"
  }
}
```

AuthZ

Set access-token header with value for subsequent requests.

Refresh Token

After expires_in reaches 0, a new access_token can be requested with:

```
GET /api/refresh-token/[:refresh_token] HTTP/1.1
```

```
Host: dev.nnels.ca
```

USERS

- User can request information about self with `users/me`
- Administrator can request information about specific users by their ID: `v1.1/users/[:id]`
- Or a users listing: `v1.1/users/`

User Request example

```
GET /api/users/me HTTP/1.1
Host: dev.nnels.ca
access-token: [:access-token]
```

Response structure

```
{
  "data": [
    {
      "id": {
        "info": {
          "label": "ID",
          "description": "Base ID for the entity."
        },
        "data": {
          "type": "integer",
          "required": true,
          "read_only": true,
          "cardinality": 1
        }
      },
      "label": {
        "info": {
          "label": "Label",
          "description": "The label of the resource."
        },
        "data": {
          "type": "string",
          "read_only": false,
          "cardinality": 1,
          "required": false,
          "size": 255
        }
      },
      "self": [],
      "mail": {
        "data": {
```

```
        "type": "text",
        "required": true
    },
    "info": {
        "label": "Email",
        "description": "The email address of the user account."
    }
}
}
],
"self": {
    "title": "Self",
    "href": "https://dev.nnels.ca/api/v1.0/users/117"
}
}
```

BASIC SEARCH

Keyword Search v1.1

URL-encode keyword string.

```
GET /api/basic_search/[:keyword1]+[:keyword2]+[:keyword3] HTTP/1.1
Host: dev.nnels.ca
Authorization: Basic dGVzdC1hY2NvdW50m5vdFJlYWw=
```

REPO_ITEMS v1.0

Specific Repo Item Request example

With node ID (nid)

```
GET /api/v1.0/repo_items/[:nid] HTTP/1.1
Host: dev.nnels.ca
access-token: [:access-token]
```

Alternate load by UUID (uuid)

```
GET /api/v1.0/repo_items/uuid=[:uuid]?loadByFieldName=uuid HTTP/1.1
Host: dev.nnels.ca
access-token: [:access-token]
```

Response structure

```
{
  "data": [
    {
      "label": {
        "info": {
          "label": "Label",
          "description": "The label of the resource."
        },
        "data": {
          "type": "string",
          "required": false,
          "read_only": false,
          "cardinality": 1,
          "size": 255
        },
        "form_element": {
          "type": "textfield",
          "default_value": "",
          "placeholder": "",
          "size": 255,
          "allowed_values": null,
          "title": "label",
          "description": "The label of the resource."
        }
      },
      "creators": {
        "info": {
          "label": "Creator",
          "description": ""
        },
        "form_element": {
          "allowed_values": [],
          "default_value": null,
          "type": "text_textfield",
          "title": "creators"
        }
      },
      "languages": {
        "info": {
          "label": "Language",
          "description": ""
        },
        "form_element": {
          "default_value": [
            {
              "value": "eng"
            }
          ],
          "type": "options_buttons",
          "title": "languages"
        }
      }
    }
  ]
}
```

```
    },
    "isbn": {
      "info": {
        "label": "ISBN",
        "description": ""
      },
      "form_element": {
        "allowed_values": [],
        "default_value": null,
        "type": "text_textfield",
        "title": "isbn"
      }
    },
    "uuid": {
      "data": {
        "type": "text",
        "required": false
      },
      "info": {
        "label": "UUID",
        "description": "The universally unique ID."
      }
    },
    "published_date": {
      "info": {
        "label": "Date",
        "description": ""
      },
      "form_element": {
        "allowed_values": [],
        "default_value": null,
        "type": "field_collection_embed",
        "title": "published_date"
      }
    },
    "file_resources": {
      "data": {
        "type": "integer",
        "required": false
      },
      "info": {
        "label": "Node ID",
        "description": "The unique ID of the node."
      }
    }
  }
},
"self": {
  "title": "Self",
  "href": "https://dev.nnels.ca/api/v1.0/repo_items/6804"
}
```



```
}
```

Notes

- The **file_resources** field contains signed S3 URIs to the files available for download for this title. This is excluded from cache and so will be regenerated upon each GET request.
- Issue GET against /repo-items/?range=N for a listing of N repo items.
- Follow root links element for paging URIs (self, first, previous, last, next)

From:

<https://wiki.libraries.coop/> - **BC Libraries Coop wiki**

Permanent link:

https://wiki.libraries.coop/doku.php?id=public:nnels:nnels_api_docs_v1



Last update: **2019/05/14 10:56**