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# NNELS API v1.1 Documentation

Version 0.5 used Services and Services Views.

Version 1.x uses RESTful framework.

## Resources exposed:

- Auth - /login-token/, /refresh-token/
- Users - /users/
- Repo\_Items - /repo\_items/
- FileResources - /file\_resources/
- Search - /basic\_search/ - **Under construction**

## Current Testing Server

Host	dev.nnels.ca
Base Endpoint	api
Example	<a href="https://dev.nnels.ca/api/[:[v1.x/]resource]/">https://dev.nnels.ca/api/[:[v1.x/]resource]/</a>

## 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.

## 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\"
property.\"
        }
    },
    "type": [],
    "expires_in": {
        "data": {
            "type": "integer",
            "required": false
        },
        "info": {
            "label": "Expire",
            "description": "Authentication token \"expire\"
property.\"
        }
    },
    "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://staging.nnels.ca/api/v1.0/users/117"
}
}
```

## SEARCH API (Full-text)

Coming soon.

## REPO\_ITEMS

Note: Uses UUID primarily, not NID

### Specific Repo Item Request example

```
GET /api/v1.0/repo_items[:nid] 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

file\_resources 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.



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