
nlbsg

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Python wrapper for the NLB Open Web Services.

Currently supports the Catalogue Service.

**CHAPTER
ONE**

INSTALLATION

```
pip install nlbsg
```

CHAPTER

TWO

USAGE EXAMPLE

Creating a client:

```
from nlbsg import Client
from nlbsg.catalogue import STAGING_URL

API_KEY = 'secret_api_key'

client = Client(STAGING_URL, API_KEY)
```

Searching the catalogue:

```
>>> from nlbsg import MediaCode
>>> results = client.search('lord of the rings', author='tolkien', media_
->code=MediaCode.BOOKS, limit=3)
>>> for title in results.titles:
...     print(f'Title: {title.title_name}\nISBN: {title.isbn}\nPublished: {title.
->publish_year}\n')
...
Title: Beren and Luthien / by J.R.R. Tolkien ; edited by Christopher Tolkien ; with_
->illustrations by Alan Lee.
ISBN: 1328915336 (paperback)
Published: 2018

Title: Beren and lP@thien [electronic resource]. J. R. R Tolkien.
ISBN: 9780008214210 (electronic bk)
Published: 2017

Title: The fall of arthur [electronic resource]. J. R. R Tolkien.
ISBN: 9780007489954 (electronic bk)
Published: 2013
```

Getting title details:

```
>>> details = client.get_title_details(isbn='1328915336')
>>> details.title_detail.summary
"The epic tale of Beren and Luthien became an essential element in the evolution of_
->The Silmarillion, the myths and legends of J.R.R. Tolkien's First Age of the World._"
->Always key to the story is the fate that shadowed their love: Beren was a mortal_
->man, Luthien an immortal Elf. Her father, a great Elvish lord, imposed on Beren an_
->impossible task before he might wed Luthien: to rob the greatest of all evil beings,
->Melkor, of a Silmaril. Painstakingly restored from Tolkien's manuscripts and_
->presented for the first time as a continuous and standalone story, Beren and_
->Luthien reunites fans of The Hobbit and The Lord of the Rings with Elves and Men,_
->along with the rich landscape and creatures unique to Tolkien's Middle-earth._"
->Christopher Tolkien tells the story in his father's own words by giving it its original_
->form as well as prose and verse passages from later texts that illustrate_
->the narrative as it changed. -- from back cover." (continues on next page)
```

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Getting title availability:

```
>>> availability = client.get_availability_info(isbn='1328915336')
>>> for item in availability.items:
...     print(f'Branch: {item.branch_name}\nStatus: {item.status_desc}\n')
...
Branch: Ang Mo Kio Public Library
Status: Not On Loan

Branch: Bukit Batok Public Library
Status: On Loan

Branch: Bedok Public Library
Status: On Loan

Branch: Bishan Public Library
Status: Not On Loan

Branch: Bukit Panjang Public Library
Status: Not On Loan

Branch: Choa Chu Kang Public Library
Status: On Loan

Branch: Central Public Library
Status: Not On Loan

Branch: Clementi Public Library
Status: On Loan

Branch: Cheng San Public Library
Status: On Loan

Branch: Geylang East Public Library
Status: Not On Loan
```

2.1 nlbsg

2.1.1 nlbsg package

nlbsg.catalogue module

```
class nlbsg.catalogue.Client(wsdl, api_key)
```

```
get_availability_info(bid=None, isbn=None, sort=None, start=1, limit=10, set_id=None)
```

Check whether an item is available for loan. Either bid or isbn should be provided.

Parameters

- **bid** (Optional[str]) –
- **isbn** (Optional[str]) –

- **sort** (Union[str, Sort, None]) – By default, results are sorted by published year in descending order. Use PUBDATE to sort in ascending order instead, or TITLE to sort by title in ascending order, ignoring articles like “a”, “an” or “the”. These values can also be found in [constants.Sort](#).
- **start** (int) – Start pointer for returned records.
- **limit** (int) – Maximum records to be returned. This is capped at 100 records even if a number greater than 100 is specified.
- **set_id** (Optional[str]) – For use in pagination. This can be used with start to return the index position of the next record in the backend system

Return type [GetAvailabilityInfoResponse](#)

Returns

get_title_details (*bid=None, isbn=None*)

Get detailed information about an item. Either bid or isbn should be provided.

Parameters

- **bid** (Optional[str]) –
- **isbn** (Optional[str]) –

Return type [GetTitleDetailsResponse](#)

Returns

search (*keywords=None, author=None, subject=None, title=None, branch=None, media_code=None, language=None, sort=None, start=1, limit=10, set_id=None*)

Searches content according to search criteria.

Parameters

- **keywords** (Optional[str]) –
- **author** (Optional[str]) –
- **subject** (Optional[str]) –
- **title** (Optional[str]) –
- **branch** (Union[str, Branch, None]) – Include only results from a particular branch. See [constants.Branch](#) for possible values.
- **media_code** (Union[str, MediaCode, None]) – Include only results of a particular media type. See [constants.MediaCode](#) for possible values.
- **language** (Union[str, Language, None]) – Include only results in a particular language. See [constants.Language](#) for possible values.
- **sort** (Union[str, Sort, None]) – By default, results are sorted by published year in descending order. Use PUBDATE to sort in ascending order instead, or TITLE to sort by title in ascending order, ignoring articles like “a”, “an” or “the”. These values can also be found in [constants.Sort](#).
- **start** (int) – Start pointer for returned records.
- **limit** (int) – Maximum records to be returned. This is capped at 100 records even if a number greater than 100 is specified.
- **set_id** (Optional[str]) – For use in pagination. This can be used with start to return the index position of the next record in the backend system

Return type [SearchResponse](#)

Returns

nlbsg.constants module

```
class nlbsg.constants.Branch
    Bases: enum.Enum

    Branch Code and Branch Name Mapping
    http://www.nlb.gov.sg/labs/technical-documentation/#BranchCodeandBranchNameMapping

    ANG_MO_KIO_PUBLIC_LIBRARY = 'AMKPL'
    BEDOK_PUBLIC_LIBRARY = 'BEPL'
    BISHAN_PUBLIC_LIBRARY = 'BIPL'
    BUKIT_BATOK_PUBLIC_LIBRARY = 'BBPL'
    BUKIT_MERAH_PUBLIC_LIBRARY = 'BMPL'
    BUKIT_PANJANG_PUBLIC_LIBRARY = 'BPPL'
    CENTRAL_PUBLIC_LIBRARY = 'CLL'
    CHENG_SAN_PUBLIC_LIBRARY = 'CSPL'
    CHOA_CHU_KANG_PUBLIC_LIBRARY = 'CCKPL'
    CLEMENTI_PUBLIC_LIBRARY = 'CMPL'
    GEYLANG_EAST_PUBLIC_LIBRARY = 'GEPL'
    JURONG_REGIONAL_LIBRARY = 'JRL'
    JURONG_WEST_PUBLIC_LIBRARY = 'JWPL'
    LEE_KONG_CHIAN_REFERENCE_LIBRARY = 'LKCR'
    LEE_KONG_CHIAN_REFERENCE_LIBRARY_LEVEL_11 = '11LKCR'
    LEE_KONG_CHIAN_REFERENCE_LIBRARY_LEVEL_7 = '07LKCR'
    LEE_KONG_CHIAN_REFERENCE_LIBRARY_LEVEL_8 = '08LKCR'
    LEE_KONG_CHIAN_REFERENCE_LIBRARY_LEVEL_9 = '09LKCR'
    LIBRARY_AT_CHINATOWN = 'CNPL'
    LIBRARY_AT_ESPLANADE = 'EPPL'
    LIBRARY_AT_HARBOURFRONT = 'HBPL'
    LIBRARY_AT_ORCHARD = 'OCPL'
    LIBRARY_SUPPLY_CENTRE = 'LSC'
    LIBRARY_SUPPLY_CENTRE_FOR_AV = 'LSCAV'
    MARINE_PARADE_PUBLIC_LIBRARY = 'MPPL'
    MOBILE_BUS = 'MOLLEY'
    NL_HERITAGE = 'LOLC'
    PASIR_RIS_PUBLIC_LIBRARY = 'PRPL'
    QUEENSTOWN_PUBLIC_LIBRARY = 'QUPL'
```

```

SEMBAWANG_PUBLIC_LIBRARY = 'SBPL'
SENGKANG_PUBLIC_LIBRARY = 'SKPL'
SERANGOON_PUBLIC_LIBRARY = 'SRPL'
TAMPINES_REGIONAL_LIBRARY = 'TRL'
TOA_PAYOH_PUBLIC_LIBRARY = 'TPPL'
WOODLANDS_REGIONAL_LIBRARY = 'WRL'
YISHUN_PUBLIC_LIBRARY = 'YIPL'

class nlbsg.constants.Language
Bases: enum.Enum
An enumeration.

CHINESE = 'Chinese'
ENGLISH = 'English'
MALAY = 'Malay'
TAMIL = 'Tamil'

class nlbsg.constants.MediaCode
Bases: enum.Enum
Title Level Media Code and Media Description Mapping
http://www.nlb.gov.sg/labs/technical-documentation/#TitleLevelMediaCodeandMediaDescriptionMapping

BOOKS = 'BK'
COMPUTER_FILE = 'CF'
MAPS = 'MP'
MIXED_MATERIALS = 'MX'
MUSIC = 'MU'
SERIALS = 'SE'
VISUAL_MATERIALS = 'VM'

class nlbsg.constants.Sort
Bases: enum.Enum
An enumeration.

PUBDATE = 'PUBDATE'
TITLE = 'TITLE'

```

nlbsg.types module

```

class nlbsg.types.GetAvailabilityInfoResponse(status,      message,      error_message,
                                              next_record_position, set_id, items)

```

Returned by [Client.get_availability_info](#).

Variables

- **status** (*str*) –
- **message** (*str*) –

- **error_message** (*Optional[str]*) –
- **next_record_position** (*Optional[int]*) –
- **set_id** (*Optional[str]*) –
- **items** (*Optional[Iterable[Item]]*) –

Example `GetAvailabilityInfoResponse`:

```
GetAvailabilityInfoResponse(
    status='OK',
    message='Operation completed successfully',
    error_message=None,
    next_record_position=2,
    set_id='3709',
    items=tuple([
        Item(
            item_no='B33315114J',
            branch_id='AMKPL',
            branch_name='Ang Mo Kio Public Library',
            location_code='_____',
            location_desc='Adult Lending',
            call_number='English      TOL -[FN]',
            status_code='S',
            status_desc='Not On Loan',
            media_code=None,
            media_desc='Book',
            status_date='06/09/2018',
            due_date=None,
            cluster_name=None,
            category_name=None,
            collection_code=None,
            collection_min_age_limit=None
        ),
        Item(
            item_no='B33315118C',
            branch_id='BBPL',
            branch_name='Bukit Batok Public Library',
            location_code='_____',
            location_desc='Adult Lending',
            call_number='English      TOL -[FN]',
            status_code='C',
            status_desc='On Loan',
            media_code=None,
            media_desc='Book',
            status_date='08/11/2018',
            due_date='08/11/2018',
            cluster_name=None,
            category_name=None,
            collection_code=None,
            collection_min_age_limit=None
        )
    ])
)
```

```
class nlbsg.types.GetTitleDetailsResponse(status, message, error_message, title_detail)
Returned by Client.get_title_details.
```

Variables

- **status** (*str*) -
- **message** (*str*) -
- **error_message** (*Optional[str]*) -
- **title_detail** (*Optional[TitleDetail]*) -

Example *GetTitleDetailsResponse*:

```
GetTitleDetailsResponse(
    status='OK',
    message='Operation completed successfully',
    error_message=None,
    title_detail=TitleDetail(
        bid='203125808',
        title_name='Beren and Luthien / by J.R.R. Tolkien ; edited by Christopher Tolkien ; with illustrations by Alan Lee.',
        author='Tolkien, J. R. R.',
        other_authors='Tolkien, J. R. R. (John Ronald Reuel), 1892-1973|Tolkien, Christopher|Lee, Alan',
        publisher=None,
        physical_desc='288 pages (pages numbered 8-288) :chiefly color illustrations ; 21 cm',
        subjects=(
            'Middle Earth (Imaginary place) Fiction',
            'Elves Fiction',
            'Fantasy fiction'
        ),
        summary="The epic tale of Beren and Luthien became an essential element in the evolution of The Silmarillion, the myths and legends of J.R.R. Tolkien's First Age of the World. Always key to the story is the fate that shadowed their love: Beren was a mortal man, Luthien an immortal Elf. Her father, a great Elvish lord, imposed on Beren an impossible task before he might wed Luthien: to rob the greatest of all evil beings, Melkor, of a Silmaril. Painstakingly restored from Tolkien's manuscripts and presented for the first time as a continuous and standalone story, Beren and Luthien reunites fans of The Hobbit and The Lord of the Rings with Elves and Men, along with the rich landscape and creatures unique to Tolkien's Middle-earth. Christopher Tolkien tells the story in his father's own words by giving its original form as well as prose and verse passages from later texts that illustrate the narrative as it changed. -- from back cover.",
        notes="First published by Harper Collins Publishers 2017. Includes abstractsThe epic tale of Beren and Luthien became an essential element in the evolution of The Silmarillion, the myths and legends of J.R.R. Tolkien's First Age of the World. Always key to the story is the fate that shadowed their love: Beren was a mortal man, Luthien an immortal Elf. Her father, a great Elvish lord, imposed on Beren an impossible task before he might wed Luthien: to rob the greatest of all evil beings, Melkor, of a Silmaril. Painstakingly restored from Tolkien's manuscripts and presented for the first time as a continuous and standalone story, Beren and Luthien reunites fans of The Hobbit and The Lord of the Rings with Elves and Men, along with the rich landscape and creatures unique to Tolkien's Middle-earth. Christopher Tolkien tells the story in his father's own words by giving its original form as well as prose and verse passages from later texts that illustrate the narrative as it changed. -- from back cover.",
        isbn='1328915336 (paperback)',
        issn=None,
        n_title_name=None,
)
```

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```

        n_author=None,
        n_publisher=None
    )
)

```

```

class nlbsg.types.Item(item_no, branch_id, branch_name, location_code, location_desc,
                      call_number, status_code, status_desc, media_code, media_desc, sta-
                      tus_date, due_date, cluster_name, category_name, collection_code,
                      collection_min_age_limit, available)

```

Part of *GetAvailabilityInfoResponse*.

Variables

- **item_no** (*str*) –
- **branch_id** (*str*) –
- **branch_name** (*str*) –
- **location_code** (*str*) –
- **location_desc** (*str*) –
- **call_number** (*str*) –
- **status_code** (*str*) –
- **status_desc** (*str*) –
- **media_code** (*Optional[str]*) –
- **media_desc** (*str*) –
- **status_date** (*str*) –
- **due_date** (*Optional[str]*) –
- **cluster_name** (*Optional[str]*) –
- **category_name** (*Optional[str]*) –
- **collection_code** (*Optional[str]*) –
- **collection_min_age_limit** (*Optional[str]*) –
- **available** (*bool*) –

Example *Item*:

```

Item(
    item_no='B33315118C',
    branch_id='BBPL',
    branch_name='Bukit Batok Public Library',
    location_code='____',
    location_desc='Adult Lending',
    call_number='English      TOL -[FN]',
    status_code='C',
    status_desc='On Loan',
    media_code=None,
    media_desc='Book',
    status_date='08/11/2018',
    due_date='08/11/2018',
    cluster_name=None,
)

```

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```
category_name=None,
collection_code=None,
collection_min_age_limit=None,
available=False,
)
```

```
class nlbsg.types.SearchResponse(status, message, error_message, total_records,
                                 next_record_position, set_id, titles)
```

Returned by `Client.search`.

Variables

- **status** (`str`) –
- **message** (`str`) –
- **error_message** (`Optional[str]`) –
- **total_records** (`Optional[int]`) –
- **next_record_position** (`Optional[int]`) –
- **set_id** (`Optional[str]`) –
- **titles** (`Optional[Iterable[Title]]`) –

Example `SearchResponse`:

```
SearchResponse(
    status='OK',
    message='Operation completed successfully',
    error_message=None,
    total_records=52,
    next_record_position=4,
    set_id='PGE3676',
    titles=tuple([
        Title(
            bid='203125808',
            isbn='1328915336 (paperback)',
            title_name='Beren and Luthien / by J.R.R. Tolkien ; edited by Christopher Tolkien ; with illustrations by Alan Lee.',
            author='Tolkien, J. R. R. (John Ronald Reuel), 1892-1973',
            publish_year='2018',
            media_code='BK',
            media_desc='Books'
        ),
        Title(
            bid='204576140',
            isbn='9780008214210 (electronic bk)',
            title_name='Beren and l@thien [electronic resource]. J. R. R. Tolkien.',
            author='Tolkien, J. R. R.',
            publish_year='2017',
            media_code='BK',
            media_desc='Books'
        )
    ])
)
```

```
class nlbsg.types.Title(bid, isbn, title_name, author, publish_year, media_code, media_desc)
Part of SearchResponse.
```

Variables

- **bid**(str) –
- **isbn**(str) –
- **title_name**(str) –
- **author**(str) –
- **publish_year**(str) –
- **media_code**(str) –
- **media_desc**(str) –

Example *Title*:

```
Title(
    bid='203125808',
    isbn='1328915336 (paperback)',
    title_name='Beren and Luthien / by J.R.R. Tolkien ; edited by Christopher
    ↪Tolkien ; with illustrations by Alan Lee.',
    author='Tolkien, J. R. R. (John Ronald Reuel), 1892-1973',
    publish_year='2018',
    media_code='BK',
    media_desc='Books'
)
```

```
class nlbsg.types.TitleDetail(bid, title_name, author, other_authors, publisher, physical_desc,
                               subjects, summary, notes, isbn, issn, n_title_name, n_author,
                               n_publisher)
Part of GetTitleDetailsResponse.
```

Variables

- **bid**(str) –
- **title_name**(str) –
- **author**(str) –
- **other_authors**(str) –
- **publisher**(Optional[str]) –
- **physical_desc**(str) –
- **subjects**(Iterable[str]) –
- **summary**(str) –
- **notes**(str) –
- **isbn**(str) –
- **issn**(Optional[str]) –
- **n_title_name**(Optional[str]) –
- **n_author**(Optional[str]) –
- **n_publisher**(Optional[str]) –

Example *TitleDetail*:

```

TitleDetail(
    bid='203125808',
    title_name='Beren and Luthien / by J.R.R. Tolkien ; edited by Christopher Tolkien ; with illustrations by Alan Lee.',
    author='Tolkien, J. R. R.',
    other_authors='Tolkien, J. R. R. (John Ronald Reuel), 1892-1973|Tolkien, Christopher|Lee, Alan',
    publisher=None,
    physical_desc='288 pages (pages numbered 8-288) :chiefly color illustrations ; 21 cm',
    subjects=(
        'Middle Earth (Imaginary place) Fiction',
        'Elves Fiction',
        'Fantasy fiction'
    ),
    summary="The epic tale of Beren and Luthien became an essential element in the evolution of The Silmarillion, the myths and legends of J.R.R. Tolkien's First Age of the World. Always key to the story is the fate that shadowed their love: Beren was a mortal man, Luthien an immortal Elf. Her father, a great Elvish lord, imposed on Beren an impossible task before he might wed Luthien: to rob the greatest of all evil beings, Melkor, of a Silmaril. Painstakingly restored from Tolkien's manuscripts and presented for the first time as a continuous and standalone story, Beren and Luthien reunites fans of The Hobbit and The Lord of the Rings with Elves and Men, along with the rich landscape and creatures unique to Tolkien's Middle-earth. Christopher Tolkien tells the story in his father's own words by giving its original form as well as prose and verse passages from later texts that illustrate the narrative as it changed. -- from back cover.",
    notes="First published by Harper Collins Publishers 2017. Includes abstractsThe epic tale of Beren and Luthien became an essential element in the evolution of The Silmarillion, the myths and legends of J.R.R. Tolkien's First Age of the World. Always key to the story is the fate that shadowed their love: Beren was a mortal man, Luthien an immortal Elf. Her father, a great Elvish lord, imposed on Beren an impossible task before he might wed Luthien: to rob the greatest of all evil beings, Melkor, of a Silmaril. Painstakingly restored from Tolkien's manuscripts and presented for the first time as a continuous and standalone story, Beren and Luthien reunites fans of The Hobbit and The Lord of the Rings with Elves and Men, along with the rich landscape and creatures unique to Tolkien's Middle-earth. Christopher Tolkien tells the story in his father's own words by giving its original form as well as prose and verse passages from later texts that illustrate the narrative as it changed. -- from back cover.",
    isbn='1328915336 (paperback)',
    issn=None,
    n_title_name=None,
    n_author=None,
    n_publisher=None
)

```

**CHAPTER
THREE**

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PYTHON MODULE INDEX

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