
nlbsg

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Python wrapper for the [NLB Open Web Services](#).

Currently supports the [Catalogue Service](#).

INSTALLATION

```
pip install nlbsg
```


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 (continues on next page)
↳original form as well as prose and verse passages from later texts that illustrate
↳the narrative as it changed. -- from back cover."
```

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 = 'LKCRLL'
LEE_KONG_CHIAN_REFERENCE_LIBRARY_LEVEL_11 = '11LKCRLL'
LEE_KONG_CHIAN_REFERENCE_LIBRARY_LEVEL_7 = '07LKCRLL'
LEE_KONG_CHIAN_REFERENCE_LIBRARY_LEVEL_8 = '08LKCRLL'
LEE_KONG_CHIAN_REFERENCE_LIBRARY_LEVEL_9 = '09LKCRLL'
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'
```

```

SEMAWANG_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 nlbgs.constants.Language
```

```
Bases: enum.Enum
```

```
An enumeration.
```

```
CHINESE = 'Chinese'
```

```
ENGLISH = 'English'
```

```
MALAY = 'Malay'
```

```
TAMIL = 'Tamil'
```

```
class nlbgs.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 nlbgs.constants.Sort
```

```
Bases: enum.Enum
```

```
An enumeration.
```

```
PUBDATE = 'PUBDATE'
```

```
TITLE = 'TITLE'
```

nlbgs.types module

```
class nlbgs.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 nlbgs.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
)

```


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