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# **ex-libris Documentation**

***Release 0.1***

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Contents:



## INSTALL

This is where you write how to get a new laptop to run this project.





## DEPLOY

This is where you describe how the project is deployed in production.



## DEVELOPING WITH DOCKER

You can develop your application in a [Docker](#) container for simpler deployment onto bare Linux machines later. This instruction assumes an [Amazon Web Services](#) EC2 instance, but it should work on any machine with Docker > 1.3 and [Docker compose](#) installed.

### 3.1 Setting up

Docker encourages running one container for each process. This might mean one container for your web server, one for Django application and a third for your database. Once you're happy composing containers in this way you can easily add more, such as a [Redis](#) cache.

The Docker compose tool (previously known as [fig](#)) makes linking these containers easy. An example set up for your cookiecutter-django project might look like this:

```
webapp/ # Your cookiecutter project would be in here
  Dockerfile
  ...
database/
  Dockerfile
  ...
webserver/
  Dockerfile
  ...
docker-compose.yml
```

Each component of your application would get its own [Dockerfile](#). The rest of this example assumes you are using the [base postgres image](#) for your database. Your database settings in *config/common.py* might then look something like:

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.postgresql_psycopg2',
        'NAME': 'postgres',
        'USER': 'postgres',
        'HOST': 'database',
        'PORT': 5432,
    }
}
```

The [Docker compose documentation](#) explains in detail what you can accomplish in the *docker-compose.yml* file, but an example configuration might look like this:

```
database:
  build: database
```

```
webapp:
  build: webapp:
  command: /usr/bin/python3.4 manage.py runserver 0.0.0.0:8000 # dev setting
  # command: gunicorn -b 0.0.0.0:8000 wsgi:application # production setting
  volumes:
    - webapp/your_project_name:/path/to/container/workdir/
  links:
    - database
webserver:
  build: webserver
  ports:
    - "80:80"
    - "443:443"
  links:
    - webapp
```

We'll ignore the webserver for now (you'll want to comment that part out while we do). A working Dockerfile to run your cookiecutter application might look like this:

```
FROM ubuntu:14.04
ENV REFRESHED_AT 2015-01-13

# update packages and prepare to build software
RUN ["apt-get", "update"]
RUN ["apt-get", "-y", "install", "build-essential", "vim", "git", "curl"]
RUN ["locale-gen", "en_GB.UTF-8"]

# install latest python
RUN ["apt-get", "-y", "build-dep", "python3-dev", "python3-imaging"]
RUN ["apt-get", "-y", "install", "python3-dev", "python3-imaging", "python3-pip"]

# prepare postgresQL support
RUN ["apt-get", "-y", "build-dep", "python3-psycopg2"]

# move into our working directory
# ADD must be after chown see http://stackoverflow.com/a/26145444/1281947
RUN ["groupadd", "python"]
RUN ["useradd", "python", "-s", "/bin/bash", "-m", "-g", "python", "-G", "python"]
ENV HOME /home/python
WORKDIR /home/python
RUN ["chown", "-R", "python:python", "/home/python"]
ADD ./ /home/python

# manage requirements
ENV REQUIREMENTS_REFRESHED_AT 2015-02-25
RUN ["pip3", "install", "-r", "requirements.txt"]

# uncomment the line below to use container as a non-root user
USER python:python
```

Running `sudo docker-compose build` will follow the instructions in your `docker-compose.yml` file and build the database container, then your webapp, before mounting your cookiecutter project files as a volume in the webapp container and linking to the database. Our example yaml file runs in development mode but changing it to production mode is as simple as commenting out the line using `runserver` and uncommenting the line using `gunicorn`.

Both are set to run on port `0.0.0.0:8000`, which is where the Docker daemon will discover it. You can now run `sudo docker-compose up` and browse to `localhost:8000` to see your application running.

## 3.2 Deployment

You'll need a webserver container for deployment. An example setup for [Nginx](#) might look like this:

```
FROM ubuntu:14.04
ENV REFRESHED_AT 2015-02-11

# get the nginx package and set it up
RUN ["apt-get", "update"]
RUN ["apt-get", "-y", "install", "nginx"]

# forward request and error logs to docker log collector
RUN ln -sf /dev/stdout /var/log/nginx/access.log
RUN ln -sf /dev/stderr /var/log/nginx/error.log
VOLUME ["/var/cache/nginx"]
EXPOSE 80 443

# load nginx conf
ADD ./site.conf /etc/nginx/sites-available/your_cookiecutter_project
RUN ["ln", "-s", "/etc/nginx/sites-available/your_cookiecutter_project", "/etc/nginx/sites-enabled/your_cookiecutter_project"]
RUN ["rm", "-rf", "/etc/nginx/sites-available/default"]

#start the server
CMD ["nginx", "-g", "daemon off;"]
```

That Dockerfile assumes you have an Nginx conf file named *site.conf* in the same directory as the webserver Dockerfile. A very basic example, which forwards traffic onto the development server or gunicorn for processing, would look like this:

```
# see http://serverfault.com/questions/577370/how-can-i-use-environment-variables-in-nginx-conf#comment730384_577370
upstream localhost {
    server webapp_1:8000;
}
server {
    location / {
        proxy_pass http://localhost;
    }
}
```

Running *sudo docker-compose build webserver* will build your server container. Running *sudo docker-compose up* will now expose your application directly on *localhost* (no need to specify the port number).

## 3.3 Building and running your app on EC2

All you now need to do to run your app in production is:

- Create an empty EC2 Linux instance (any Linux machine should do).
- Install your preferred source control solution, Docker and Docker compose on the news instance.
- Pull in your code from source control. The root directory should be the one with your *docker-compose.yml* file in it.
- Run *sudo docker-compose build* and *sudo docker-compose up*.

- Assign an [Elastic IP address](#) to your new machine.
- Point your domain name to the elastic IP.

**Be careful with Elastic IPs** because, on the AWS free tier, if you assign one and then stop the machine you will incur charges while the machine is down (presumably because you're preventing them allocating the IP to someone else).

## 3.4 Security advisory

The setup described in this instruction will get you up-and-running but it hasn't been audited for security. If you are running your own setup like this it is always advisable to, at a minimum, examine your application with a tool like [OWASP ZAP](#) to see what security holes you might be leaving open.

## API ENDPOINTS

### 4.1 User

**GET** `/user/`  
All users.

**Example request:**

```
GET /user/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

**Example response:**

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "id": 1,
    "username": "17f2554e-bb8a-43ca-9b1c-11c3daf450d8"
  },
  {
    "id": 2,
    "username": "eb661b31-a894-4fa4-a847-89bbcb842dea"
  }
]
```

#### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

#### Status Codes

- **200 OK** – no error

### 4.2 Book

**GET** `/book/`  
All books owned by the current user.

**Example request:**

```
GET /book/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

**Example response:**

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "id": 1,
    "title": "Emma",
    "owner": "example_user",
    "author": {
      "id": 1,
      "name": "Jane Austen"
    },
    "publisher": {
      "id": 1,
      "name": "John Murray"
    },
    "series": {
      "id": 1,
      "name": "The Complete Jane Austen"
    },
    "edition": "1st",
    "year": "1815"
  }
]
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **200 OK** – no error

**POST /book/**

Create a new book owned by the current user.

**Example request:**

```
POST /book/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "title": "Moby-Dick; or, the Whale",
  "author": {
    "name": "Herman Melville"
  },
  "publisher": {
```



```

    "name": "Richard Bentley"
  },
  "series": {
    "name": "Works on Whaling"
  },
  "edition": "1st",
  "year": "1851"
}

```

**Example response:**

```

HTTP/1.1 201 CREATED
Content-Type: application/json

{
  "id": 2,
  "title": "Moby-Dick; or, the Whale",
  "owner": "example_user",
  "author": {
    "id": 2,
    "name": "Herman Melville"
  },
  "publisher": {
    "id": 2,
    "name": "Richard Bentley"
  },
  "series": {
    "id": 2,
    "name": "Works on Whaling"
  },
  "edition": "1st",
  "year": "1851"
}

```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **201 Created** – created successfully

**GET** `/book/` (int: *book\_id*) /

A particular book owned by the current user.

**Example request:**

```

GET /book/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

```

**Example response:**

```

HTTP/1.1 200 OK
Content-Type: application/json

```

```
{
  "id": 1,
  "title": "Emma",
  "owner": "example_user",
  "author": {
    "id": 1,
    "name": "Jane Austen"
  },
  "publisher": {
    "id": 1,
    "name": "John Murray"
  },
  "series": {
    "id": 1,
    "name": "The Complete Jane Austen"
  },
  "edition": "1st",
  "year": "1815"
}
```

### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

### Status Codes

- **200 OK** – no error

**PUT** `/book/` (**int:** *book\_id*) /

Update a particular book owned by the current user.

### Example request:

```
PUT /book/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "title": "Emma: a Novel in Three Volumes",
  "author": {
    "name": "Jane Austen"
  },
  "publisher": {
    "name": "John Murray"
  },
  "series": {
    "name": "The Incomplete Jane Austen"
  },
  "edition": "1st",
  "year": "1815"
}
```

### Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
```

```
{
  "id": 1,
  "title": "Emma: a Novel in Three Volumes",
  "owner": "example_user",
  "author": {
    "id": 1,
    "name": "Jane Austen"
  },
  "publisher": {
    "id": 1,
    "name": "John Murray"
  },
  "series": {
    "id": 1,
    "name": "The Incomplete Jane Austen"
  },
  "edition": "1st",
  "year": "1815"
}
```

### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

### Status Codes

- **200 OK** – no error

### PATCH /book/ (int: book\_id) /

Partial-update a particular book owned by the current user.

#### Example request:

```
PATCH /book/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "title": "Emma: my favorite book",
  "series": {
    "name": "Yet more Jane Austen"
  }
}
```

#### Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "id": 1,
  "title": "Emma: my favorite book",
  "owner": "example_user",
  "author": {
    "id": 1,
```

```
{
  "name": "Jane Austen"
},
"publisher": {
  "id": 1,
  "name": "John Murray"
},
"series": {
  "id": 1,
  "name": "Yet more Jane Austen"
},
"edition": "1st",
"year": "1815"
}
```

#### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

#### Status Codes

- **200 OK** – no error

#### **DELETE** /book/ (int: book\_id) /

Remove a particular book owned by the current user.

#### Example request:

```
DELETE /book/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

#### Example response:

```
HTTP/1.1 204 No Content
Content-Type: application/json
```

#### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

#### Status Codes

- **204 No Content** – successfully deleted

## 4.3 Author

#### **GET** /author/

All authors attached to books the current user owns.

#### Example request:

```
GET /author/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

**Example response:**

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "id": 1,
    "name": "Jane Austen"
  },
  {
    "id": 2,
    "name": "Herman Melville"
  }
]
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **200 OK** – no error

**POST /author/**

Create a new author.

**Example request:**

```
POST /book/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "name": "Edith Wharton"
}
```

**Example response:**

```
HTTP/1.1 201 CREATED
Content-Type: application/json

{
  "id": 3,
  "name": "Edith Wharton"
}
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header

- **Authorization** – required bearer token for authentication

#### Status Codes

- **201 Created** – created successfully

**GET** `/author/` (**int:** `author_id`) /

A particular author owned by the current user.

#### Example request:

```
GET /author/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

#### Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "Jane Austen"
}
```

#### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

#### Status Codes

- **200 OK** – no error

**PUT** `/author/` (**int:** `author_id`) /

Update a particular author owned by the current user.

#### Example request:

```
PUT /author/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "name": "The Incomparable Jane Austen"
}
```

#### Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "The Incomparable Jane Austen"
}
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **200 OK** – no error

**PATCH /author/ (int: author\_id) /**

Partial-update a particular author owned by the current user.

**Example request:**

```
PATCH /author/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "name": "Another Jane Austen"
}
```

**Example response:**

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "Another Jane Austen"
}
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **200 OK** – no error

**DELETE /author/ (int: author\_id) /**

Remove a particular author owned by the current user.

**Example request:**

```
DELETE /author/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

**Example response:**

```
HTTP/1.1 204 No Content
Content-Type: application/json
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

#### Status Codes

- **204 No Content** – successfully deleted

## 4.4 Publisher

### GET /publisher/

All publishers attached to books the current user owns.

#### Example request:

```
GET /publisher/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

#### Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "id": 1,
    "name": "John Murray"
  },
  {
    "id": 2,
    "name": "Richard Bentley"
  }
]
```

#### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

#### Status Codes

- **200 OK** – no error

### POST /publisher/

Create a new publisher.

#### Example request:

```
POST /book/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "name": "D. Appleton & Co."
}
```



**Example response:**

```

HTTP/1.1 201 CREATED
Content-Type: application/json

{
  "id": 3,
  "name": "D. Appleton & Co."
}

```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **201 Created** – created successfully

**GET** `/publisher/` (**int:** *publisher\_id*) /  
A particular publisher owned by the current user.

**Example request:**

```

GET /publisher/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

```

**Example response:**

```

HTTP/1.1 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "John Murray"
}

```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **200 OK** – no error

**PUT** `/publisher/` (**int:** *publisher\_id*) /  
Update a particular publisher owned by the current user.

**Example request:**

```

PUT /publisher/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

```

```
{
  "name": "John Murray Co."
}
```

**Example response:**

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "John Murray Co."
}
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **200 OK** – no error

**PATCH /publisher/ (int: publisher\_id) /**

Partial-update a particular publisher owned by the current user.

**Example request:**

```
PATCH /publisher/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "name": "Another John Murray"
}
```

**Example response:**

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "Another John Murray"
}
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **200 OK** – no error

**DELETE** `/publisher/` (*int: publisher\_id*) /

Remove a particular publisher owned by the current user.

**Example request:**

```
DELETE /publisher/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

**Example response:**

```
HTTP/1.1 204 No Content
Content-Type: application/json
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

**Status Codes**

- **204 No Content** – successfully deleted

## 4.5 Series

**GET** `/series/`

All series attached to books the current user owns.

**Example request:**

```
GET /series/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

**Example response:**

```
HTTP/1.1 200 OK
Content-Type: application/json

[
  {
    "id": 1,
    "name": "The Incomplete Jane Austen"
  },
  {
    "id": 2,
    "name": "Works on Whaling"
  }
]
```

**Request Headers**

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

### Status Codes

- 200 OK – no error

### POST /series/

Create a new series.

#### Example request:

```
POST /book/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "name": "New York Society in the 1890's"
}
```

#### Example response:

```
HTTP/1.1 201 CREATED
Content-Type: application/json

{
  "id": 3,
  "name": "New York Society in the 1890's"
}
```

### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

### Status Codes

- 201 Created – created successfully

### GET /series/ (int: series\_id) /

A particular series owned by the current user.

#### Example request:

```
GET /series/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

#### Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "The Incomplete Jane Austen"
}
```

### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

#### Status Codes

- **200 OK** – no error

**PUT** `/series/ (int: series_id) /`

Update a particular series owned by the current user.

#### Example request:

```
PUT /series/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "name": "The Complete Jane Austen"
}
```

#### Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "id": 1,
  "name": "The Complete Jane Austen"
}
```

#### Request Headers

- **Accept** – the response content type depends on *Accept* header
- **Authorization** – required bearer token for authentication

#### Status Codes

- **200 OK** – no error

**PATCH** `/series/ (int: series_id) /`

Partial-update a particular series owned by the current user.

#### Example request:

```
PATCH /series/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef

{
  "name": "Another Jane Austen Collection"
}
```

#### Example response:

```
HTTP/1.1 200 OK
Content-Type: application/json
```

```
{
  "id": 1,
  "name": "Another Jane Austen Collection"
}
```

#### Request Headers

- *Accept* – the response content type depends on *Accept* header
- *Authorization* – required bearer token for authentication

#### Status Codes

- *200 OK* – no error

#### **DELETE** `/series/` (*int: series\_id*) /

Remove a particular series owned by the current user.

#### Example request:

```
DELETE /series/1/ HTTP/1.1
Host: api.exlibris.ink
Accept: application/json
Authorization: Token 01234567-89ab-cdef-0123-456789abcdef
```

#### Example response:

```
HTTP/1.1 204 No Content
Content-Type: application/json
```

#### Request Headers

- *Accept* – the response content type depends on *Accept* header
- *Authorization* – required bearer token for authentication

#### Status Codes

- *204 No Content* – successfully deleted

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