|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| URI | Type | | Input | Response |
| http://localhost:3000/ | **GET** | | --------- | 200 OK  *Atom feed pointing to /collection/* |
|  | **PUT** | | Any | 405 Method Not Allowed |
|  | **POST** | | Any | 405 Method Not Allowed |
|  | **DELETE** | | --------- | 405 Method Not Allowed |
|  | **HEAD** | | --------- | 200 OK (no response body) /  204 No Content |
| http://localhost:3000/collection | **GET** | | --------- | 200 OK  Content-Type: application/atom+xml  *Atom feed with entries representing individual collections and links pointing to operations allowed on these collections* |
| ?alt=xml | 200 OK  Content-Type: application/xml  *<collections>*  *<collection id='...'>*  *<author>Liz Smith</author>*  *<title>A collection of sky pictures</title>*  *<description>My favorite pics</description>*  *</collection>*  *<collection id='...'>*  *... all existing collections...*  *</collection>*  *</collections>* |
| ?alt=json | 200 OK  Content-Type: application/json  *Json representation of the XML above* |
|  | **PUT** | | Any | 405 Method Not Allowed |
|  | **POST** | | Atom entry with the name of the collection and its author (summary optional) | 201 Created  Location: http://localhost:3000/collection/{col\_ID} *+ atom feed representation of the created resource* |
|  | **POST** | | Invalid Input | 400 Bad Request  *(possibly return what was wrong in the body)* |
|  | **DELETE** | | --------- | 405 Method Not Allowed |
|  | **HEAD** | | --------- | 200 OK (no response body) /  204 No Content |
| http://localhost:3000/collection/{col\_ID}/ | **GET** | | col\_ID exists (no query string) | 200 OK  *Atom feed containing the collection details + links and entries representing individual images in the collection and links pointing to operations allowed on these images* |
| ?alt=xml | 200 OK  Content-Type: application/xml  *<collection id='...'>*  *<author>Liz Smith</author>*  *<title>A collection of sky pictures</title>*  *<description>My favorite pics</description>*  *</collection>* |
| ?alt=json | 200 OK  Content-Type: application/json  *Json representation of the XML above* |
|  | **GET** | | col\_ID does NOT exist | 404 Not Found |
|  | **PUT** | | Atom feed representation of the collection  Resource NOT modified since GET | 200 OK  *+ atom representation of the updated resource* OR  204 No Content |
|  | **PUT** | | Atom feed representation of the collection  Resource MODIFIED since GET | 409 Conflict  *+ current atom representation of the resource* |
|  | **PUT** | | Invalid format | 400 Bad Request  *(possibly return what was wrong in the body)* |
|  | **POST** | | image binary data *(multipart/form-data)* | 201 Created  Location: http://localhost:3000/collection/{col\_ID}  /image/{img\_ID}/ *+ atom feed representation of the created image resource* |
|  | **POST** | | Invalid Input | 400 Bad Request  *(possibly return what was wrong with the upload)* |
|  | **DELETE** | | col\_ID exists | 204 No Content |
|  | **DELETE** | | col\_ID does NOT exist | 404 Not Found |
|  | **HEAD** | | --------- or alt query string -> same as GET | 200 OK (no response body) /  204 No Content |
| http://localhost:3000/collection/{col\_ID}/image/{img\_ID} | **GET** | | --------- | 200 OK  *Atom Entry containing image details + links* |
| ?alt=xml | 200 OK  Content-Type: application/xml  *<image id='...'>*  *<author>Edward Stone</author>*  *<title>Wiki Editing Cat</title>*  *<description>A cat editing a Wikipedia article</description>*  *<path>http://localhost:3000/image/img12\_1.jpg</path>*  *</image>* |
| ?alt=json | 200 OK  Content-Type: application/json  *Json representation of the XML above* |
|  | **POST** | | Any | 405 Method Not Allowed |
|  | **PUT** | | new image binary data *(multipart/form-data)*  Resource NOT modified since GET | 200 OK  *+ atom representation of the updated resource*  OR  204 No Content |
|  | **PUT** | | Invalid format | 400 Bad Request  *(possibly return what was wrong with the upload)* |
|  | **DELETE** | | col\_ID and img\_ID exist | 204 No Content |
|  | **DELETE** | | col\_ID and/or img\_ID do NOT exist | 404 Not Found |
|  | **HEAD** | | --------- | 200 OK (no response body) /  204 No Content |
| http://localhost:3000/collection/{col\_ID}/comment | **GET** | | --------- | 200 OK  Content-Type: application/atom+xml  *Atom feed with entries representing individual comments associated with the collection and links pointing to operations allowed on these comments* |
| ?alt=xml | 200 OK  Content-Type: application/xml  *<collection id='...'>*  *<comment id='...'>*  *<author>Joe Black</author>*  *<content>what a lovely picture</content>*  *</comment>*  *<comment id='...'>*  *...other comments associated with the collection*  *</comment>*  *</collection>* |
| ?alt=json | 200 OK  Content-Type: application/json  *Json representation of the XML above* |
|  | **PUT** | | Any | 405 Method Not Allowed |
|  | **POST** | | Atom entry with the new comment | 201 Created  Location: http://localhost:3000/collection/{col\_ID}  /comment/{com\_ID}/ *+ atom entry representing of the newly-added comment resource* |
|  | **POST** | | Invalid Input | 400 Bad Request  *(possibly return what was wrong in the body)* |
|  | **DELETE** | | --------- | 204 No Content *Delete all comments associated with collection* |
|  | **HEAD** | | --------- | 200 OK (no response body) /  204 No Content |
| http://localhost:3000/collection/{col\_ID}/comment/{com\_ID} | **GET** | | --------- | 200 OK  *Atom Entry containing comment details + links* |
|  |  | | ?alt=xml | 200 OK  Content-Type: application/xml  *<comment id='...'>*  *<author>Joe Black</author>*  *<content>what a lovely picture</content>*  *</comment>* |
|  |  | | ?alt=json | 200 OK  Content-Type: application/json  *Json representation of the XML above* |
|  | **POST** | | Any | 405 Method Not Allowed |
|  | **PUT** | | Atom feed representation of the comment  Resource NOT modified since GET | 200 OK  *+ atom representation of the updated resource(comment)* |
|  | **PUT** | | Atom feed representation of the comment  Resource MODIFIED since GET | 409 Conflict  *+ current atom representation of the resource (comment)* |
|  | **PUT** | | Invalid format | 400 Bad Request  *(possibly return what was wrong in the body)* |
|  | **DELETE** | | col\_ID and com\_ID exist | 204 No Content  *(comment deleted)* |
|  | **DELETE** | | col\_ID and/or com\_ID do NOT exist | 404 Not Found |
|  | **HEAD** | | --------- | 200 OK (no response body) /  204 No Content |
| http://localhost:3000/collection/{col\_ID}/image/{img\_ID}/comment | | | All HTTP verbs (PUT, POST, GET, HEAD, DELETE) should work exactly the same as for ***http://localhost:3000/collection/{col\_ID}/comment*** . But in this case we are dealing with comments associated with an image rather than a collection . | |
| http://localhost:3000/collection/{col\_ID}/image/{img\_ID}/comment/{com\_ID} | | | All HTTP verbs (PUT, POST, GET, HEAD, DELETE) should work exactly the same as for ***http://localhost:3000/collection/{col\_ID}/comment/{com\_ID}*** . But in this case we are dealing with a comment associated with an image rather than a collection. | |
| http://localhost:3000/collection/{col\_ID}/metadata | | **GET** | --------- | 200 OK  Content-Type: application/atom+xml  *Atom feed with entries representing individual tags (metadata) associated with the collection and links pointing to operations allowed on these comments* |
| ?alt=xml | 200 OK  Content-Type: application/xml  *<collection id='...'>*  *<metadata id='...'>*  *<tag>lolcatz</tag>*  *</metadata>*  *<metadata id='...'>*  *...other tags associated with this collection*  *</metadata>*  *</collection>* |
| ?alt=json | 200 OK  Content-Type: application/json  *Json representation of the XML above* |
|  | | **PUT** | Any | 405 Method Not Allowed |
|  | | **POST** | Atom entry with a new tag | 201 Created  Location: http://localhost:3000/collection/{col\_ID}  /metadata/{tag\_ID}/ *+ atom entry representing of the newly-added tag resource* |
|  | | **POST** | Invalid Input | 400 Bad Request  *(possibly return what was wrong in the body)* |
|  | | **DELETE** | --------- | 204 No Content *Delete all tags associated with collection* |
|  | | **HEAD** | --------- | 200 OK (no response body) /  204 No Content |
| http://localhost:3000/collection/{col\_ID}/metadata/{tag\_ID} | | **GET** | --------- | 200 OK  *Atom Entry containing tag details + links* |
| ?alt=xml | 200 OK  Content-Type: application/xml  *<metadata id='...'>*  *<tag>lolcats</tag>*  *</metadata>* |
| ?alt=json | 200 OK  Content-Type: application/json  *Json representation of the XML above* |
|  | | **POST** | Any | 405 Method Not Allowed |
|  | | **PUT** | Atom feed representation of the tag  Resource NOT modified since GET | 200 OK  *+ atom representation of the updated resource(tag)* |
|  | | **PUT** | Atom feed representation of the comment  Resource MODIFIED since GET | 409 Conflict  *+ current atom representation of the resource (tag)* |
|  | | **PUT** | Invalid format | 400 Bad Request  *(possibly return what was wrong in the body)* |
|  | | **DELETE** | col\_ID and tag\_ID exist | 204 No Content  *(tag deleted)* |
|  | | **DELETE** | col\_ID and/or tag\_ID do NOT exist | 404 Not Found |
|  | | **HEAD** | --------- | 200 OK (no response body) /  204 No Content |
| http://localhost:3000/collection/{col\_ID}/image/{img\_ID}/metadata | | | All HTTP verbs (PUT, POST, GET, HEAD, DELETE) should work exactly the same as for ***http://localhost:3000/collection/{col\_ID}/metadata*** . But in this case we are dealing with tags associated with an image rather than a collection . | |
| http://localhost:3000/collection/{col\_ID}/image/{img\_ID}/meatadata/{tag\_ID} | | | All HTTP verbs (PUT, POST, GET, HEAD, DELETE) should work exactly the same as for ***http://localhost:3000/collection/{col\_ID}/metadata/{tag\_ID}*** . But in this case we are dealing with a tag associated with an image rather than a collection. | |

# Atom Pub Documents

## GET http://localhost:3000/

### Response:

<service xmlns=″http://www.w3.org/2007/app″

xmlns:atom=″http://www.w3.org/2005/Atom″>

<workspace>

<atom:title>Image Catalog</atom:title>

<collection href='http://localhost:3000/collection'>

<atom:title>A service for collection management</atom:title>

<accept>application/atom+xml;type=entry</accept>

</collection>  
 </workspace>  
</service>

## GET http://localhost:3000/collection

### Response:

<feed xmlns='http://www.w3.org/2005/Atom' xmlns:app=″http://www.w3.org/2007/app >

<id>http://vac.co.uk/collection</id>

<title type='text'>Image Collections</title>

<updated>2012-12-18T16:25:00+00:00</updated>

<app:collection href='http://localhost:3000/collection'>

<title>Image Collections Service</title>

<app:accept>application/atom+xml;type=entry</app:accept>

</app:collection>

<entry>

<id>http://vac.co.uk/collection/12</id>

<updated>2012-12-18T16:25:00Z</updated>

<app:edited>2010-03-29T13:00:30Z</app:edited>

<author>

<name>Edd Stone</name>

</author>

<title type='text'>A collection of the best lolcats</title>

<summary>My own personal collection of favourite lolcatz</summary>

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12' />

<link rel='edit-media' type='application/atom+xml' href='http://localhost:3000/collection/12/image' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/comment' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/metadata' />

</entry>

<entry>

... Other entries representing collections of images

</entry>

</feed>

## POST http://localhost:3000/collection

### Post Body:

<entry xmlns='http://www.w3.org/2005/Atom'>

<author>

<name>Liz Smith</name>

</author>

<title type='text'>A collection of sky pictures</title>

<summary>My favourite pictures of the skies in the UK</summary>

</entry>

### Response:

201 Created  
Location: http://localhost:3000/collection/15/

<entry xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>

<id>http://vac.co.uk/collection/15</id>

<updated>2012-12-13T13:55:21Z</updated>

<app:edited>2012-12-13T13:55:21Z</app:edited>

<author>

<name>Liz Smith</name>

</author>

<title type='text'>A collection of sky pictures</title>

<summary>My favourite pictures of the skies in the UK</summary>

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/15?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/15?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/15' />

<link rel='edit-media' type='application/atom+xml' href='http://localhost:3000/collection/15/image' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/15/comment' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/metadata' />

</entry>

## GET http://localhost:3000/collection/{col\_ID}/ (http://localhost:3000/collection/12/)

### Response:

<feed xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>

<id>http://vac.co.uk/collection/12</id>

<updated>2012-12-18T16:25:00Z</updated>

<app:edited>2012-12-18T16:25:00Z</app:edited>

<title type='text'>A collection of the best lolcats</title>

<summary>My own personal collection of favourite lolcatz</summary>

<app:collection href='http://localhost:3000/collection/12'>

<title>A collection of the best lolcats </title>

<app:accept>multipart/form-data</app:accept>

</app:collection>

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/comment' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/metadata' />

<entry>

<id>http://vac.co.uk/collection/12/image/1</id>

<updated>2012-12-18T16:25:00Z</updated>

<app:edited>2012-12-18T16:25:00Z</app:edited>

<author>

<name>Edd Stone</name>

</author>

<title type='text'>wiki\_cat.jpg</title>

<content type='image/jpeg' src='http://localhost:3000/image/img12\_1.jpg' /> // that's the actual image

<link rel='edit-media' type='application/atom+xml' href='http://localhost:3000/collection/12/image/1' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/image/1/comment/' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/metadata' />

</entry>

<entry>

... Other Images ...

</entry>

</feed>

## PUT http://localhost:3000/collection/{col\_ID} (http://localhost:3000/collection/12)

### Put Body:

<entry xmlns='http://www.w3.org/2005/Atom'>

<title type='text'>A collection of the best lolcats</title>

<summary>My own personal collection of favourite lolcatz XXX</summary>

</entry>

### Response:

<entry xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>

<id>http://vac.co.uk/collection/12/image/1</id>

<updated>2012-12-19T11:15:46Z</updated>

<app:edited>2012-12-19T11:15:46Z</app:edited> // update time server-side

<author>

<name>Edward Stone</name>

</author>

<title type='text'>A collection of the best lolcats</title>

<summary>My own personal collection of favourite lolcatz XXX</summary>

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12' />

<link rel='edit-media' type='application/atom+xml' href='http://localhost:3000/collection/12/metadata' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/comment' />

</entry>

## POST http://localhost:3000/collection/{col\_ID} (http://localhost:3000/collection/12)

### Request:

Content-Type: multipart/form-data; boundary=BOUNDARY\_KEY

-- BOUNDARY\_KEY

Content-Disposition: form-data; name="title"

*...title (text - name of the image)... e.g.* Lovely cat

-- BOUNDARY\_KEY

Content-Disposition: form-data; name="summary"

*...summary (text - description of the image)... e.g.* This is my lovely cat Tom

-- BOUNDARY\_KEY

Content-Disposition: form-data; name="image"; filename="imgOfaCat.jpg"

Content-Type: image/jpeg // could be image/png or image/gif

*...binary image data...*

-- BOUNDARY\_KEY --

**Note:** Only the binary image data is required; the other two fields are optional. If there is no title provided we will use the image filename as the title. The summary field in ATOM is not compulsory - we can leave it out

### Response:

201 Created  
Location: http://localhost:3000/collection/12/image/1

<entry xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>  
 <id>http://vac.co.uk/collection/12/image/1</id>

<updated>2012-12-19T11:15:46Z</updated> // added server-side

<app:edited>2012-12-19T11:15:46Z</app:edited>

<author>

<name>Edward Stone</name> // inherited from the collection record

</author>

<title>Lovely cat</title>

<summary>This my lovely cat Tom</summary>

<content type='image/jpeg' src='http://localhost:3000/public/images/img12\_1.jpg' /> // link to the image file

<link rel='edit-media' type='application/atom+xml' href='http://localhost:3000/collection/12/image/1' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/image/1/comment' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/image/1/metadata' />  
</entry>

## GET http://localhost:3000/collection/{col\_ID}/image/{img\_ID} (http://localhost:3000/collection/12/image/1)

### Request:

200 OK  
  
<entry xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>  
 <id>http://vac.co.uk/collection/12/image/1</id>

<updated>2012-12-19T11:15:46Z</updated>

<app:edited>2012-12-19T11:15:46Z</app:edited>

<author>

<name>Edward Stone</name>

</author>

<title>Lovely cat</title>

<summary>This is my lovely cat Tom</summary>

<content type='image/jpeg' src='http://localhost:3000/public/images/img12\_1.jpg' />

<link rel='edit-media' type='application/atom+xml' href='http://localhost:3000/collection/12/image/1' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/image/1/comment' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/image/1/metadata' />  
</entry>

## PUT http://localhost:3000/collection/{col\_ID}/image/{img\_ID} (http://localhost:3000/collection/12/image/1)

### Request:

Exactly the same as the initial **POST http://localhost:3000/collection/{col\_ID}/image.** However, in this case ALL the fields are optional. Whatever data is sent will be updated and the rest will remain unchanged. If no data at all (or wrong data) is sent then 400 Bad Request should be returned.

### Response:

200 OK  
Updated entry feed - structure same as **GET http://localhost:3000/collection/{col\_ID}/image/{img\_ID}**

## GET http://localhost:3000/collection/{col\_ID}/comment (http://localhost:3000/collection/12/comment)

**GET http://localhost/collection/{col\_ID}/image/{img\_ID}/comment**  should respond similarly but the links and data need to be associated with image

### Response:

<feed xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>

<id>http://vac.co.uk/collection/12/comment</id>

<updated>2012-12-18T16:25:00Z</updated>

<app:edited>2012-12-18T16:25:00Z </app:edited>

<title type='text'>A collection of the best lolcats</title>

<summary>My own personal collection of favourite lolcatz</summary>

<content>Comments on this collection<content>

<app:collection href='http://localhost:3000/collection/12/comment'>

<title>Collection comments service</title>

<app:accept>application/atom+xml;type=entry</app:accept>

</app:collection>

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/comment?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/comment?alt=json' />

<entry>

<id>http://vac.co.uk/collection/12/comment/3</id>

<updated>2012-12-18T16:25:00Z</updated>

<app:edited>2012-12-18T16:25:00Z </app:edited>

<author>

<name>Liz Smith</name> // comment author

</author>

<title type='text'>This cat looks like my cat</title> // comment body

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/comment/3?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/comment/3?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/comment/3' />

</entry>

<entry>

*... Other comments ...*

</entry>

</feed>

## POST http://localhost:3000/collection/{col\_ID}/comment (http://localhost:3000/collection/12/comment)

**POST http://localhost/collection/{col\_ID}/image/{img\_ID}/comment**  post body exactly the same and the response should have the correct links

### Post Body:

<entry xmlns='http://www.w3.org/2005/Atom'>

<author>

<name>Liz Smith</name>

</author>

<title type='text'>This cat looks like my cat</title>

</entry>

### Response:

201 Created  
Location: http://localhost:3000/collection/12/comment/3

<entry xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>

<id>http://vac.co.uk/collection/12/comment/3</id> // id added server-side

<updated>2012-12-18T16:25:00Z</updated> // date added server-side

<app:edited>2012-12-18T16:25:00Z </app:edited>

<author>

<name>Liz Smith</name> // comment author

</author>

<title type='text'>This cat looks like my cat</title> // comment body

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/comment/3?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/comment/3?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/comment/3' />

</entry>

## GET http://localhost:3000/collection/{col\_ID}/comment/{com\_ID} (http://localhost:3000/collection/12/comment/3)

**GET http://localhost/collection/{col\_ID}/image/{img\_ID}/comment**  **/{com\_ID}** the same again with the correct links and data

### Response:

200 OK

<entry xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>

<id>http://vac.co.uk/collection/12/comment/3</id>   
 <updated>2012-12-18T16:25:00Z</updated>

<app:edited>2012-12-18T16:25:00Z </app:edited>

<author>

<name>Liz Smith</name>

</author>

<title type='text'>This cat looks like my cat</title>

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/comment/3?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/comment/3?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/comment/3' />

</entry>

## PUT http://localhost:3000/collection/{col\_ID}/comment/{com\_ID} (http://localhost:3000/collection/12/comment/3)

**PUT http://localhost/collection/{col\_ID}/image/{img\_ID}/comment/{com\_ID}**  body exactly the same and the response should have the correct links

### Put Body:

<entry xmlns='http://www.w3.org/2005/Atom'>

<author>

<name>Liz Smith</name>

</author>

<title type='text'>This cat looks like my cat, but he is not that skilled</title> // edited comment body

</entry>

### Response:

200 OK

<entry xmlns='http://www.w3.org/2005/Atom'>

<id>http://vac.co.uk/collection/12/comment/3</id>

<updated>2012-12-18T17:38:22Z</updated> // date updated server-side

<app:edited>2012-12-18T17:38:22Z</app:edited>

<author>

<name>Liz Smith</name>

</author>

<title type='text'>This cat looks like my cat, but he is not that skilled</title> // edited comment body

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/comment/3?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/comment/3?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/comment/3' />

</entry>

Metadata (tags) should work exactly the same as comments but we have to do content negotiation here (xml and json) ... for comments, those alternate links are optional - we don't have to implement them (but it should be quite easy as we do it for tags anyway and we might get some extra marks for that)

## GET http://localhost:3000/collection/{col\_ID}/metadata (http://localhost:3000/collection/12/metadata)

**GET http://localhost/collection/{col\_ID}/image/{img\_ID}/metadata**  should respond similarly but the links and data need to be associated with image

### Response:

<feed xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>

<id>http://vac.co.uk/collection/12/metadata</id>

<updated>2012-12-18T16:25:00Z</updated>

<app:edited>2012-12-18T16:25:00Z </app:edited>

<title type='text'>A collection of the best lolcats</title>

<summary>My own personal collection of favourite lolcatz</summary>

<content>Collection metadata (tags)<content>

<app:collection href='http://localhost:3000/collection/12/metadata'>

<title>Tagging service this collection</title>

<app:accept>application/atom+xml;type=entry</app:accept>

</app:collection>

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/metadata?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/metadata?alt=json' />

<entry>

<id>http://vac.co.uk/collection/12/metadata/3</id>

<updated>2012-12-18T16:25:00Z</updated>

<app:edited>2012-12-18T16:25:00Z</app:edited>

<author>

<name>Liz Smith</name> // inherit from the collection author

</author>

<title type='text'>lolcats</title> // that is the tag

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/metadata/3?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/metadata/3?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/metadata/3' />

</entry>

<entry>

*... Other tags ...*

</entry>

</feed>

## POST http://localhost:3000/collection/{col\_ID}/metadata (http://localhost:3000/collection/12/metadata)

**POST http://localhost/collection/{col\_ID}/image/{img\_ID}/metadata**  post body exactly the same and the response should have the correct links

### Post Body:

<entry xmlns='http://www.w3.org/2005/Atom'>

<title type='text'>lolcats</title>

</entry>

### Response:

201 Created  
Location: http://localhost:3000/collection/12/metadata/3

<entry xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>

<id>http://vac.co.uk/collection/12/metadata/3</id> // id added server-side

<updated>2012-12-18T16:25:00Z</updated> // date added server-side

<app:edited>2012-12-18T16:25:00Z </app:edited>

<author>

<name>Liz Smith</name> // author inherited from the collection

</author>

<title type='text'>lolcats</title> // the tag

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/metadata/3?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/metadata/3?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/metadata/3' />

</entry>

## GET http://localhost:3000/collection/{col\_ID}/metadata/{tag\_ID} (http://localhost:3000/collection/12/metadata/3)

**GET http://localhost/collection/{col\_ID}/image/{img\_ID}/metadata**  **/{tag\_ID}** the same again with the correct links and data

### Response:

200 OK

<entry xmlns='http://www.w3.org/2005/Atom' xmlns:app='http://www.w3.org/2007/app'>

<id>http://vac.co.uk/collection/12/metadata/3</id>   
 <updated>2012-12-18T16:25:00Z</updated>

<app:edited>2012-12-18T16:25:00Z </app:edited>

<author>

<name>Liz Smith</name>

</author>

<title type='text'>lolcats</title>

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/metadata/3?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/metadata/3?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/metadata/3' />

</entry>

## PUT http://localhost:3000/collection/{col\_ID}/metadata/{tag\_ID} (http://localhost:3000/collection/12/metadata/3)

**PUT http://localhost/collection/{col\_ID}/image/{img\_ID}/metadata/{tag\_id}**  body exactly the same and the response should have the correct links

### Put Body:

<entry xmlns='http://www.w3.org/2005/Atom'>

<title type='text'>lolcatz</title> // edited tag body

</entry>

### Response:

200 OK

<entry xmlns='http://www.w3.org/2005/Atom'>

<id>http://vac.co.uk/collection/12/metadata/3</id>

<updated>2012-12-18T17:38:22Z</updated> // date updated server-side

<app:edited>2012-12-18T17:38:22Z</app:edited>

<author>

<name>Liz Smith</name>

</author>

<title type='text'>lolcatz</title> // edited tag

<link rel='alternate' type='application/xml' href='http://localhost:3000/collection/12/metadata/3?alt=xml' />

<link rel='alternate' type='application/json' href='http://localhost:3000/collection/12/metadata/3?alt=json' />

<link rel='edit' type='application/atom+xml' href='http://localhost:3000/collection/12/metadata/3' />

</entry>