

## Functional Reqs

1. Tag Management  
(Create, delete, update)
2. Attach tags  
(content agnostic)
3. Top tags

Extended req:  
1. Efficient search

## Non-Functional Reqs

1. Availabilty
2. Performant
3. Scale (large)

## API contracts

Public:

`createTag(dev_key,  
tagName, created_at)`

`deleteTag(dev_key,  
tagName)`

`updateTag(dev_key,  
tagName, newTagData)`

`attachingTags(dev_key,  
tagName, rscData:  
List)`

`getTopTags()`

private:

`getTagsForRsc(rsdData)`

`getRscsForTag(tagName)`

## Data Model (Cassandra)

`tag_table`

`tag_name text  
created_by text  
created_at timestamp`

`tags_by_rsc`

`rsc_id bit_int K  
tag_name C  
tagget_at timestamp  
tagged_by text`

`rscs_by_tag`

`tag_name text K  
rsc_id big_int C  
metadata...`

