

# CATCH Library Lab Progress Report #2. [ June 1, 2013 ]

This is the second progress report on the CATCH Library Lab project.

## 1. Background work

- Researched front-end open-source UI and back-end storage solutions for the CATCH Hub
- Identified and hiring front-end and back-end developers and are in process of discussing and prioritizing final deliverables
- Researched back-end cloud servers and decided on Rackspace open cloud server for hub
- Gathered requirements for front-end UI modules

## 2. Development

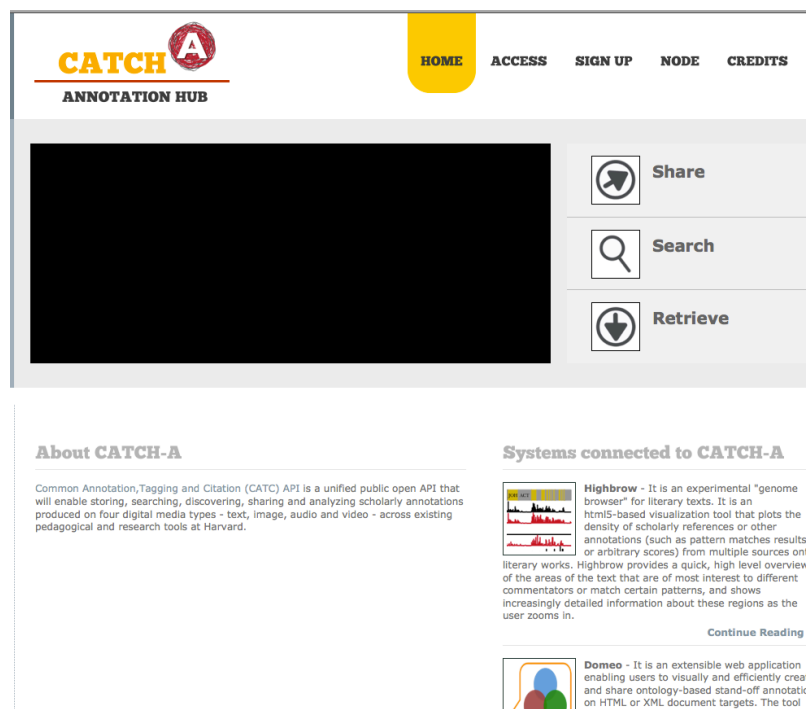
### a. Administrative Modules

#### CATCH Module

(<https://github.com/annotationsatharvard/catcha>)

An umbrella module that contains the public pages and loads the other modules such as AfSecurity and AfShared, and will load soon to be developed the Persistence (storage and retrieval of annotations) and Search modules.

Includes the public pages of the website (hub info, about and homepage) and allows to login with both username/password and OpenIDs. The login process relies on the AfSecurity module.



The screenshot shows the CATCH Annotation Hub website. At the top left is the CATCH logo with a red 'A' in a circle. To the right is a navigation menu with links: HOME (highlighted in yellow), ACCESS, SIGN UP, NODE, and CREDITS. Below the logo is the text 'ANNOTATION HUB'. The main content area is mostly black, suggesting a video player or a large image that failed to load. To the right of this area are three buttons: 'Share' with a share icon, 'Search' with a magnifying glass icon, and 'Retrieve' with a download icon. Below the main content area, there are two sections: 'About CATCH-A' and 'Systems connected to CATCH-A'. The 'About CATCH-A' section contains text about the Common Annotation, Tagging and Citation (CATC) API. The 'Systems connected to CATCH-A' section lists 'Highbrow' and 'Domeo' with small icons and brief descriptions. A 'Continue Reading >>' link is visible at the bottom right of the 'Systems connected to CATCH-A' section.

**CATCH** ANNOTATION HUB

HOME ACCESS **SIGN UP** NODE CREDITS

Sign Up for CATCH-A v. 0.1

First name\*  (max 255 chars)

Last name\*  (max 255 chars)

Display name\*  (max 255 chars)

Email\*  (valid email)

Affiliation\*  (max 255 chars)

Country\*  (valid country)

Username\*  (4-60 chars)

Password\*  (6-16 chars)

Re-type Password\*

\* Means agreeing with below terms and conditions

[CATCH-A :: Terms and Conditions](#)

**CATCH** ANNOTATION HUB

HOME **ACCESS** SIGN UP NODE CREDITS

Log in OpenID

Username:

Password:

Remember me

### AfSecurity Module

(<https://github.com/annotationframework/AfSecurity>).

It allows for:

- Registration of Users and Groups
- Registration of System that can interact with the CATCH hub
- Management/moderations of accounts/groups and systems requests

The AfSecurity module allows for three kinds of users' roles: administrators/managers/users. Each role gives access to different administration features.

The participation of a user to a group can also be qualified by a role (I could be the administrator of a group or a simple member)

The registry of the systems that can interact with the Hub can include, for each system, one or more administrators, the list of the groups and/or users that the external system can access the annotation of. A flag that determines if the external system can access the whole pool of the public annotations or not. We still need to add the parameter that force the streamed annotation to be anonymized.

Home :: Administration Dashboard My Profile :: Logout

**Administrator**

**Administer Users**

List Users

List Roles

Search Users

Create User

**Administer Groups**

List Groups

Search Groups

Create Group

**Administer Systems**

List Systems

Search Systems

Create System

**Moderation Queues**

Past Users Account Requests

Moderate Account Requests

### User Creation

Title  (max 255 chars)

First name\*  (max 255 chars)

Middle name  (max 255 chars)

Last name\*  (max 255 chars)

Display name\*  (max 255 chars)

Email\*  (valid email)

Affiliation\*  (max 255 chars)

Country\*  (valid country)

Username\*  (8-60 chars)

Password\*  (6-16 chars)

Re-type Password\*  (6-16 chars)

Role  Administrator  Manager  User

Account Status  New account  Active account

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Home :: Administration Dashboard My Profile :: Logout

**Administrator**

**Administer Users**

List Users

List Roles

Search Users

Create User

**Administer Groups**

List Groups

Search Groups

Create Group

**Administer Systems**

List Systems

Search Systems

Create System

**Moderation Queues**

Past Users Account Requests

Moderate Account Requests

### Users List - total# 5

Username	Name	Adm	Mgr	Usr	Member Since	Last updated	Status	Actions
admin	White Jack (Dr. White)	Y	Y	Y	06/02/2013 08:23	06/02/2013 08:23	Active	<a href="#">Edit</a> <a href="#">Lock</a> <a href="#">Disable</a> <a href="#">Reset password</a>
david	Copperfield David (Dr. Copperfield)		Y	Y	06/02/2013 08:45	06/02/2013 08:45	Active	<a href="#">Edit</a> <a href="#">Lock</a> <a href="#">Disable</a> <a href="#">Reset password</a>
karlo	Zelzz Karlo (Dr. Z)			Y	06/02/2013 09:01	06/02/2013 09:01	Active	<a href="#">Edit</a> <a href="#">Lock</a> <a href="#">Disable</a> <a href="#">Reset password</a>
robert	Law Robert (Dr. Law)			Y	06/02/2013 08:51	06/02/2013 08:51	Active	<a href="#">Edit</a> <a href="#">Lock</a> <a href="#">Disable</a> <a href="#">Reset password</a>
user	Smith John (Dr. Smith)			Y	06/02/2013 08:23	06/02/2013 08:23	Active	<a href="#">Edit</a> <a href="#">Lock</a> <a href="#">Disable</a> <a href="#">Reset password</a>

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Home :: Administration Dashboard My Profile :: Logout

**Administrator**

**Administer Users**

- List Users
- List Roles
- Search Users**
- Create User

**Administer Groups**

- List Groups
- Search Groups
- Create Group

**Administer Systems**

- List Systems
- Search Systems
- Create System

**Moderation Queues**

- Past Users Account Requests
- Moderate Account Requests

**Users Search**

Last Name:  First Name:  or by Display Name:

Username	Name (Display name)	Adm	Mgr	Usr	Member Since	Status
david	David Copperfield (Dr. Copperfield)	false	true	true	2013-06-03T00:45:34Z	Active

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Home :: Administration Dashboard My Profile :: Logout

**Administrator**

**Administer Users**

- List Users
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- Search Users
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**Administer Groups**

- List Groups**
- Search Groups
- Create Group

**Administer Systems**

- List Systems
- Search Systems
- Create System

**Moderation Queues**

- Past Users Account Requests
- Moderate Account Requests

**Groups List - total# 1**

Name	Short	Description	Created on	Last updated	Status	#Members	Actions
Harvard	HL	Harvard Library Labs	06/02/2013 10:04	06/02/2013 10:04	Active	1	<input type="button" value="Edit"/> <input type="button" value="Lock"/> <input type="button" value="Disable"/>

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## AfShared Module

(<https://github.com/annotationframework/AfShared>)

Contains the templates of the graphic element and contains the default settings of the application. Includes some basic utilities and shared CSS material

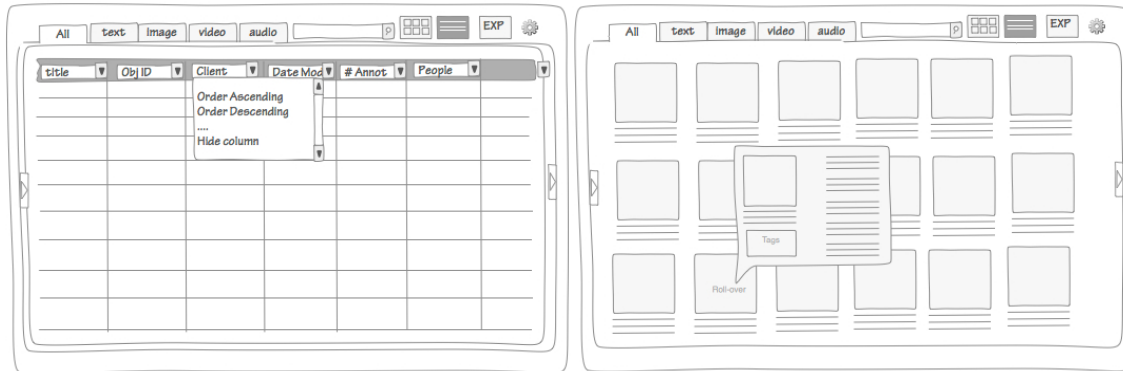
### b. Stand-alone annotation UI modules

Produced design document for 3 front-end interoperable javascript UI modules along with corresponding wireframes. These modules retrieve and display baseline information (metadata) about annotated objects and annotations.

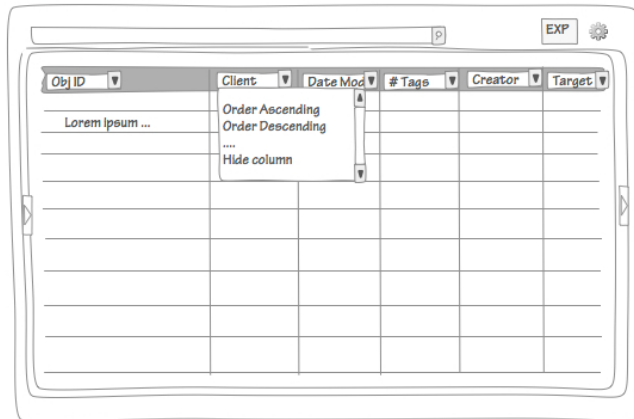
All modules allow exporting the data displayed in multiple open formats.

Grid-list view of annotated objects [ AnnotationObjectGrid.js ]

This is a stand-alone grid-list module that allows the connection to the annotation hub and retrieve a list of annotation objects based on the results of a search query. The modules has two view states grid and list view. Data in the views are customizable by showing or hiding data columns.

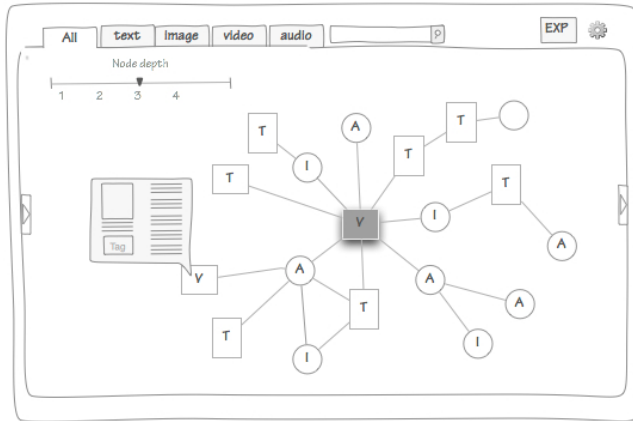


List view of annotations [ AnnotationList.js ]



This is a standalone module that allows the connection to the annotation hub and retrieve a list of annotations based on the selection of an individual annotated object or the results of a search query (search UI based on Annotator.js for example). When used in conjunction with the AnnotationObjectGrid.js module (see above) it will display the data associated with the selected annotated object in AnnotationObjectGrid.js.

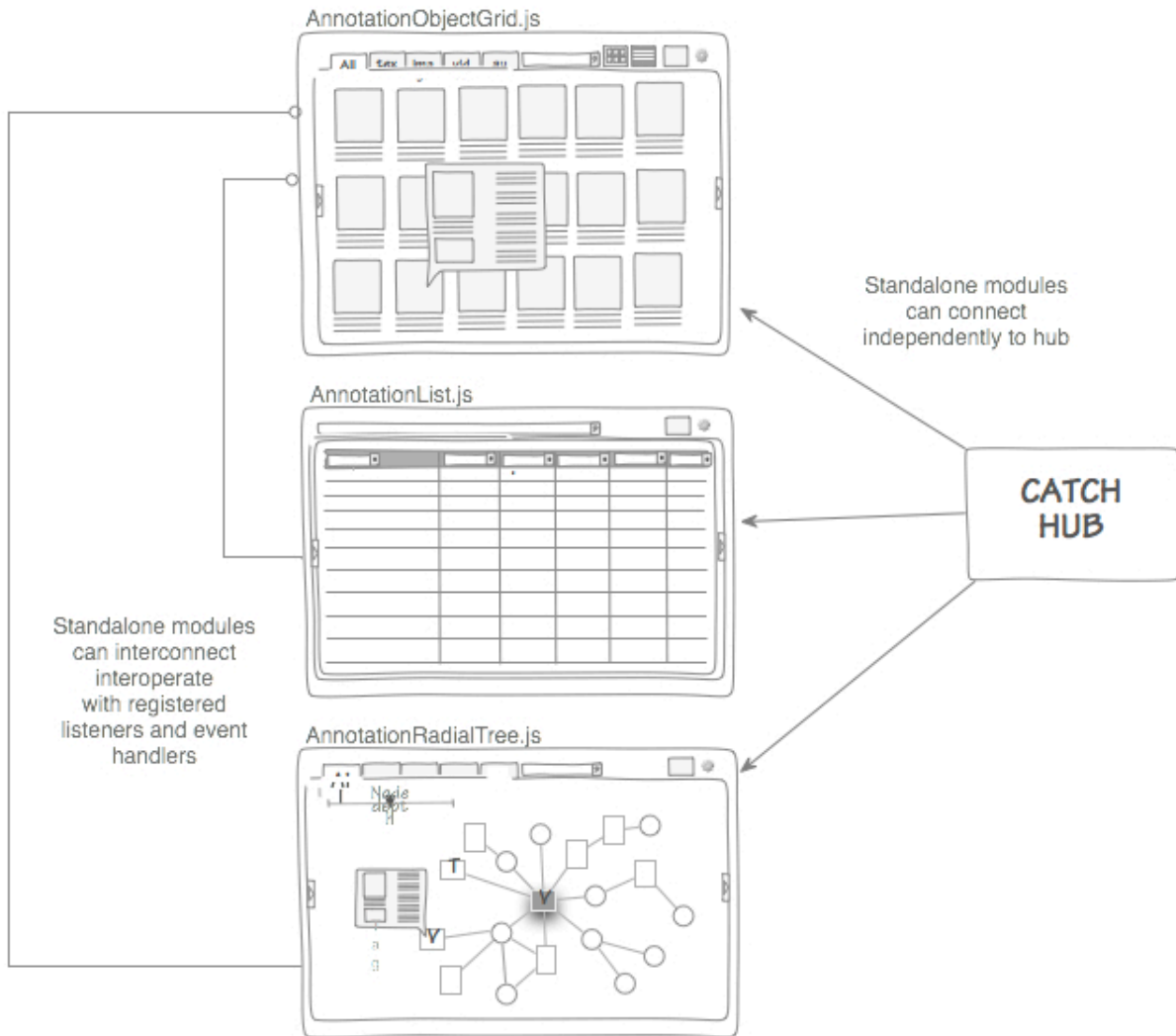
Radial Node Connection of annotated objects and annotation [ AnnotationRadialTree.js ]



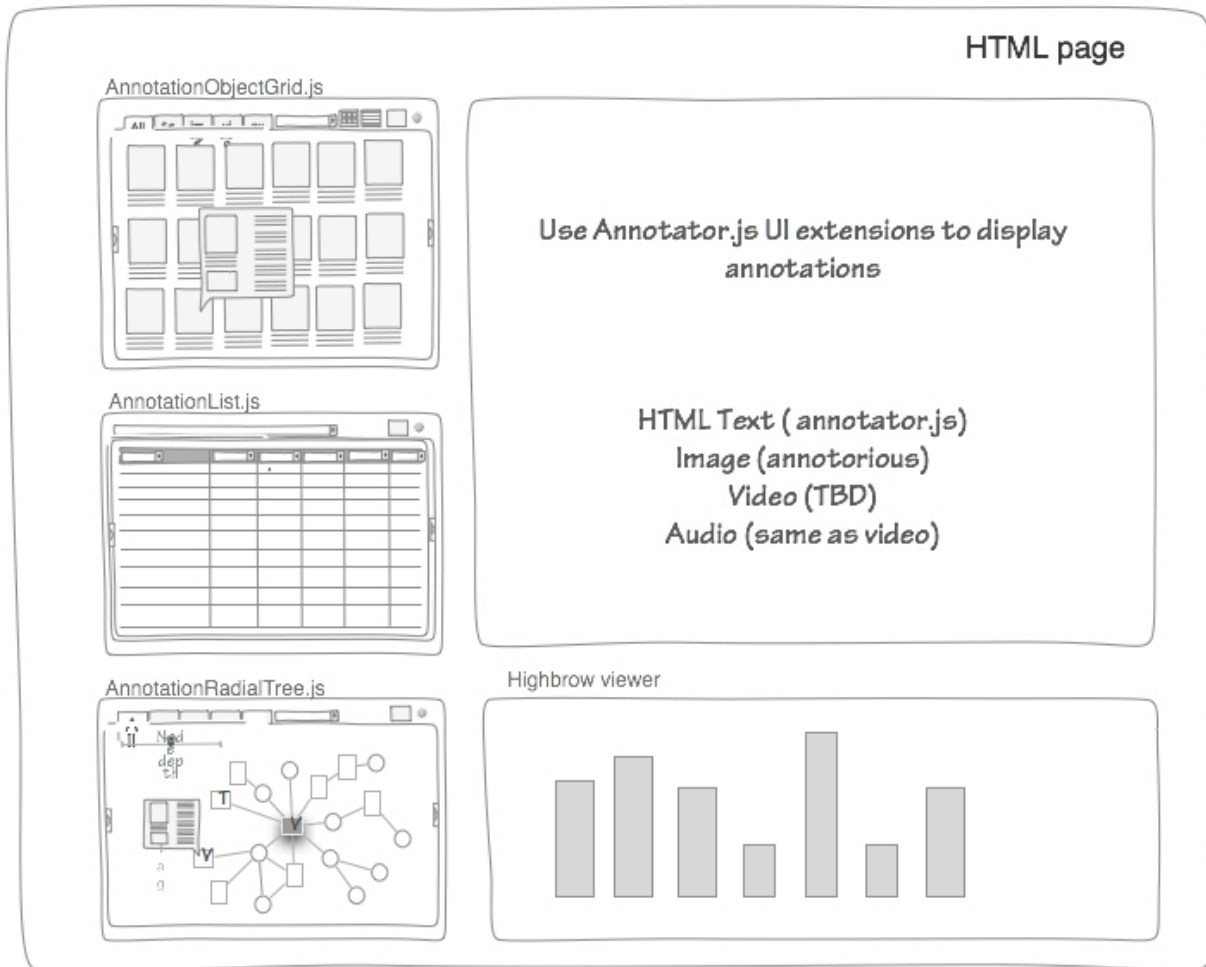
This is a visualization module that shows the relationship between annotated objects and annotations. Two dimensional display of icons of annotated objects in a radial map or radial tree with lines connecting to annotation icons that expand outward. The view displays the objects based on the query search. The UI also allows to reveal connected annotated objects by degrees of freedom (various levels of connections).

### UI Module interoperability and interdependence

Each module can connect independently to the back-end database hub, or can be self-standing. If more than one module is to be used on a same Web page, there will be an API to interoperate by simply registering the modules. This will allow changes in one module to be reflected in the other modules.



## UI Module interoperability in a Web Page



### 3. Planning

For this phase we will focus on implementing the above mentioned designs for the stand-alone Javascript UI modules.

On the administrative end we are planning the development of:

- Persistence (storage and retrieval of annotations)
- Search modules (searching annotations)

### 4. Expenses

- Rackspace cloud server: \$42
- Expenses for front and back-end developers will begin this next phase. These upcoming expenses will consume the majority of the CATCH budget