Media Manager

Code Name: “Derby”

Prototype Deadline: 5/1/2015

Goals:

* Provide a user interface for users to upload images, pdfs, movies, and other files
* Allow users to easily link to or embed external media like YouTube or Flickr
* Provide methods to transform media – ideas: crop, resize, rotate, greyscale, pdf preview, convert to pdf
* Provide an interface to the file system that should be familiar to linux devs – ideas: use the user/group/anon file permission scheme
* Open source it?

Design Considerations

* Built to be included in projects as a composer dependency
* Derby Media Manager is being built to be “embedded” into a larger application, and will try to not make assumptions about the parent system.
* Derby will provide interfaces that will provide integration points for the larger system including persistence, caching, logging and other cross cutting concerns.
* This should allow Derby to be reused on different projects, and allow devs to adapt it to their specific case.
* Ability to store Media on separate server to allow for application to be containerized
* To prevent file lookups (on external servers) the “file system” will be database driven, with parent relationships to drive the tree structure.

Front-End UI

* Want to create something inspired by Google drive - simple and user friendly
* Maybe roll our own React frontend and expose through API?

Libraries to be used:

* PHPUnit
* Mockery – For mocks in unit tests
* Gaufrette – To abstract the file system
* Imagine – Image manipulation
* Adapters for Amazon S3, OpenCloud, Local, YouTube, Flickr