

# The Impact of Next Generation Learning Object Repositories (LOR) on Healthcare Education

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Link: <http://z.umn.edu/medbiq2016lordemo>

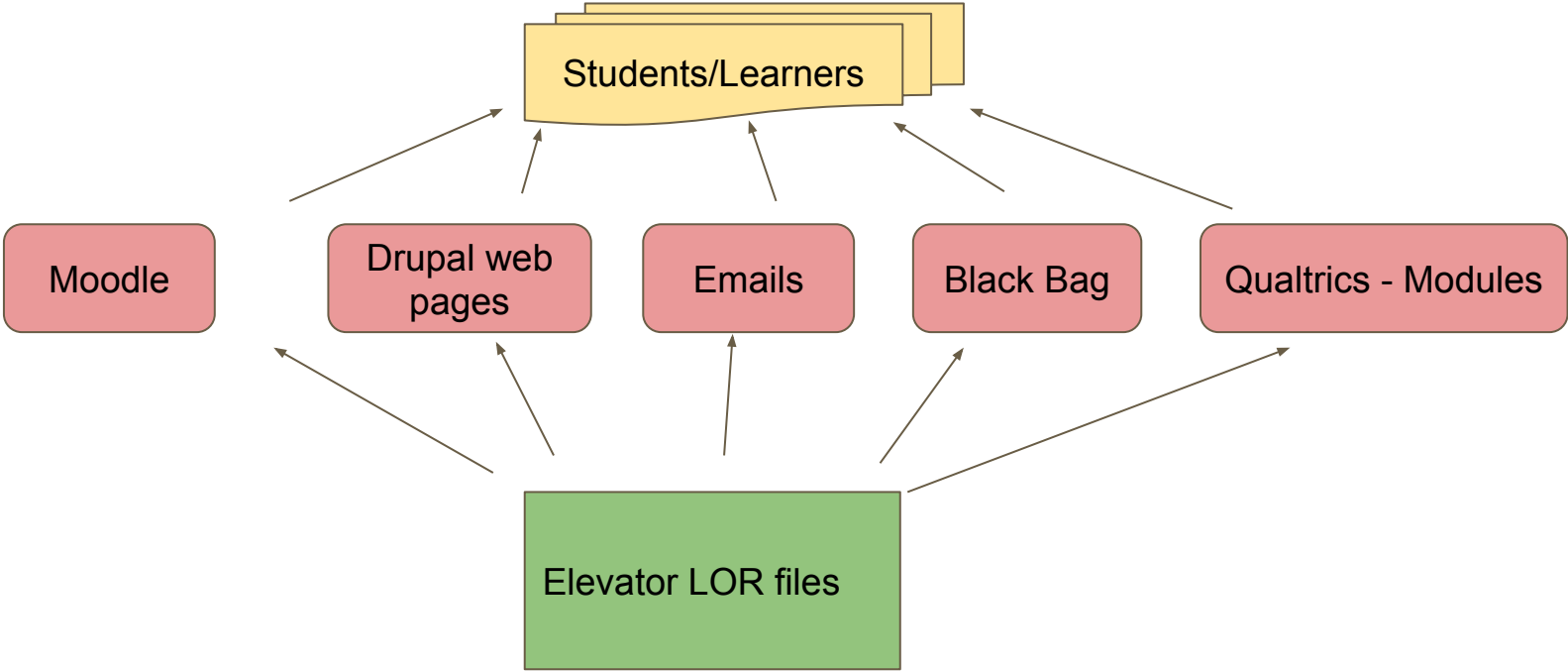
# Elevator-Demonstration Overview

- Describe Elevator (environment and software)
- Demonstrate Elevator (E) with Healthcare-Education materials (first explore Learner-Facing E; second describe Instructor-Facing E)
  - tens/hundred of learning objects, in pilot-phase use
  - E's relationship (eg embedding) with other systems (LMSs, Drupal, Qualtrics, etc)
  - E's Media Types, Players, Workflow
- Demonstrate Elevator with non-Healthcare-Education materials
  - hundreds of thousands of learning objects, in daily use
  - Focus on Search
- You can explore Elevator yourselves
  - [www.elevatorapp.net](http://www.elevatorapp.net); <http://github.com/umn-latis/elevator>; [mcfa0086@umn.edu](mailto:mcfa0086@umn.edu)

# Need for an LOR in Healthcare Education, “Elevator” as a Tool

- What are “Learning Objects” that need a “Repository?”
  - A “library” of educational resources (of many types), for use and re-use, described with flexibly-created metadata, powerfully searchable, powerfully viewable, relatively inexpensive
  - These Learning Objects need Digital Asset Management (often DAM) Systems
- Elevator is a software environment and tool which is:
  - **Open Source:** (Github)
  - **Mobile Friendly:** (all devices, HTML5, all browser-based, no plug-ins/etc)
  - **Cloud-Based:** (AWS storage/processing now, see [z.umn.edu/awseucate](https://z.umn.edu/awseucate); others possible)
  - **Dynamic Metadata:** (searchable; flexible creation types; post hoc editing;)
  - **File-Format Agnostic:** (Images/Video, Documents, Raw Data Sets, Proprietary Formats, etc)
  - **Elevator output:** is embeddable in many environments (LMS’s, Moodle/BlackBag/etc; Drupal web pages; Google Sites; Qualtrics/Insight-Modules; etc)

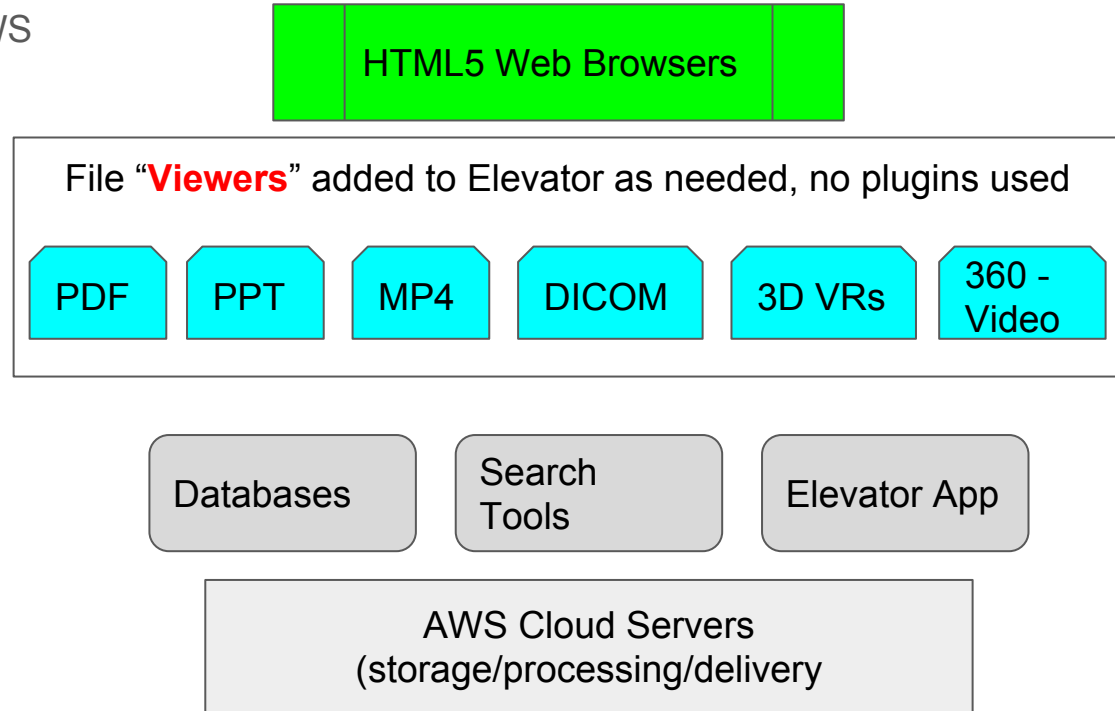
# Elevator - Sharing Learning “Object files”



# Elevator LOR File Viewer Model (non-HIPAA/FERPA)

- Elevator “holds” ***any*** file type on AWS
- Lets you attach own Metadata
- Lets you search metadata
- Plays (also Shares downloads assets)
- Powerful archival tools

**ELEVATOR:** Provides “Web Viewers” for advanced file types that are simple to use and AVOID complex “extra’s” like... Java, .NET, “Plugins,” etc)



# Let's Demonstrate now, from Drupal and Qualtrics (similar to a Learner's point of view)

- Drupal Page & Elevator - Examples:  
URL: <http://z.umn.edu/mb2016drupal>
  - Radiology/DICOM Images
  - Pathology/Whole-Slide-Images
  - 360-Videos
- Qualtrics & Elevator - Examples:  
URL: <https://z.umn.edu/mb2016qualtrics>
  - Thoracic 3D manipulatable image
  - Cranial 3D interactive DICOM Radiology Image
  - 2D and 3D videos
- Questions/Feedback

# Working with Elevator Directly (similar to an Instructor's point of view)

- Elevator Home view:
  - Collections (viewing all Collection Names; enter MedBiq 2016 Collection)
  - Editing Templates/Assets (view several; actually Edit one)
- Questions?

# University of Minnesota-wide Elevator Collections/Assets

University of Minnesota Elevator Collections/Assets link:

<http://dcl.elevator.umn.edu>

University of Minnesota Medical School Pilot Elevator Collections/Assets link:

<http://medschool.elevator.umn.edu>



# Future (near-term, mostly) topics for Elevator

- **Under continuing development, more work needed:**
  - better batch import/export;
  - better batch metadata;
  - simpler UI and workflow;
  - some browser-display problems;
  - More powerful permissions;
  - ELSE?

# Questions/Comments?

## For additional Elevator information:

- [www.elevatorapp.net](http://www.elevatorapp.net)
  - An overview
  - 24-minute screen-recorded presentation from Colin McFadden, Elevator's developer
  - "Getting Started," with Github instructions
  - Roadmap for some future developments
  - Integrating Elevator with Moodle
  - "Help," User Guide, and FAQ materials
- Colin McFadden, [mcfa0086@umn.edu](mailto:mcfa0086@umn.edu)