Evolving with Agile into a New Technical Landscape: Cultivating a Sustainable DAMS Ecosystem

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Today’s Agenda

- Goals in making the DAMS
- Implementing Agile Methodology
- System Architecture
- Functionality and Workflow
The Setting

- 1980’s - University of Texas led development standards
- 2010’s - Disperse and varied digital collections
- 2017 - began DAMS development
The Goal

- A continuous streamlined process and series of applications that allow for the efficient and scalable Digitization, Preservation, Curation and Discovery of assets.

University of Texas at Austin Digital Stewardship
UT Libraries’ Agile

- Two Squads, Two Agile Methodologies
- Iteration towards the MVP (Minimum Viable Product)
The Human Aspect

Frank D. Welch collection
Chose open source products for their extensibility, cost, and the committed communities.
Modular Design

- Separate interfaces for UT Library Digital Asset Stewards and Public Access
- Smaller code bases, more manageable deployments
- Long term extensibility
Basic Architecture

- Asset Staging
- Asset
- Workload Automation Application
- Internal Ingest, Curation and Preservation DAMS Interface - Islandora 7
- Publish
- SOLR cloud
- IIIF Manifest Generator
- IIIF Image Server
- IIIF Manifest Server
- Published Assets Database and REST Interface
- Publicly Accessable DAMS Interface - blacklight
Automated Ingest

- Currently:
  - continually running with safeguards
  - a 400 page book ingests in about an hour
  - robust logging and monitoring
  - OCR

Relaciones Geográficas of Mexico and Guatemala, 1577-1585
Internal DAMS Interface
Display

- Transition in technology from VMs to docker, php to python/ruby
- docker made experimentation with IIIF image servers easy
- Features:
  - IIIF manifests with complete metadata
  - citations
  - downloads
Constantly Evolving

Covers from UT’s South Asian Popular and Pulp Fiction Collection

Mutual trust and accountability between stewards, leaders and technologists

Flexibility in our systems and staff to accommodate changes in direction regularly
Acknowledgements

- UT Austin Libraries Access Systems
- UT Austin Libraries IT
- UT Austin Libraries Benson Latin American Collection
- UT Austin Libraries Alexander Architectural Archives
- UT Austin Libraries Digital Stewardship
- UT Austin Central IT
- The many open source contributors who make this possible
Tell Me More

**METADATA:** Our DAMS uses a custom MODs metadata schema that is the result of years of careful consideration, contact lib-digitalcollections@utlists.utexas.edu

**UT Austin Collections:** https://collections.lib.utexas.edu/

**Agile Manifesto:** http://agilemanifesto.org/
Citations

**image slide 2:** E. R. Denmark (Editor), Fred H. Sorrow (manager (advertising)), H. E. Harman, Jr. (manager (business)). Southern Architect and Building News, Volume 55, no. 11, November 1929 - University of Texas Libraries Collections. 1929-11-01. https://collections.lib.utexas.edu/catalog/utlarch:db7989a4-2ab1-4eed-8511-ef8ff2a7f5f

**image slide 5:** Robert Leon White (architect), Cret, Paul Philippe, 1876-1945 (consulting architect), University of Texas at Austin (client). University of Texas Hogg Auditorium (Austin, Tex.): sheet 2 basement plan and details - University of Texas Libraries Collections. 1932-01-11. https://collections.lib.utexas.edu/catalog/utlarch:4a8a4e0a-c211-412b-833e-6c0885441af6

**Image slide 6:** no attribution (no attribution). ¡Atención pueblo de Guatemala, atención! - University of Texas Libraries Collections. 1944-10. https://collections.lib.utexas.edu/catalog/utlarch:1f52c956-2b9c-4c5e-9eca-569f662fd17

**image slide 7:** Atlantic Terra Cotta Company (New York, N.Y.) (collector), not attributed (photographer), Ayres and Ayres, Architects (architectural firm). Smith-Young Tower (San Antonio, Tex.): elevated exterior view, corner perspective - University of Texas Libraries Collections. undated. https://collections.lib.utexas.edu/catalog/utlarch:bfef9df59-d0c1-46a6-8c45-0026a345642b

**video slide 10:** intellectual property of the University of Texas Libraries

**image slide 11:** Manuel, Herschel Thurman, b. 1887 (collector). Segregated schools scrapbook page 2 - University of Texas Libraries Collections. 1920s. https://collections.lib.utexas.edu/catalog/utlarch:3f20957-72e9-4f8a-28b-a7f1387838d1

**image slide 12:** Villalongin, Carlos, 1872-1936 (contributor). Photograph of Elisa García López - University of Texas Libraries Collections. 1920. https://collections.lib.utexas.edu/catalog/utlarch:1743300a-d0a-4733-93c7-39938dc9314a

**image slide 13:** Welch, Frank D., 1927-2017 (architect), John Dorn (client). Shelter for John Dorn, The Birthday (Sterling County, Tex.): perspective sketch - University of Texas Libraries Collections. 1965. https://collections.lib.utexas.edu/catalog/utlarch:c3e676c8-4366-4f2d-ad79-4860ec071864

**image slide 14:** https://collections.lib.utexas.edu/ University of Texas Libraries Collections

**image slide 15:** തന്ത്രീകരണം കാരണാധികാരി (Author), Kunnamkarikkalamp, Tahkaccan (Author), Unknown artist (Creator). പുസ്തകം (പുസ്തകം) - University of Texas Libraries Collections. 2008. https://collections.lib.utexas.edu/catalog/utlgs:14d13c5b-1704-4be3-8548-b6203838d31e