Curation
Define and enforce management and preservation requirements
Facilitate authenticity verification for all artifacts and collections
Facilitate rights management for all artifacts and collections
Identify or flag materials that might need redaction
Identify or flag redundancy or duplicates
Provide aging information on artifacts and collections.
Provide workflow capabilities
Support export capabilities to common file types
Support the use of dark archival (non-sharable) archives
Support the use of verified and unverified tags
The use of artifacts and collections must adhere to donation restrictions

Ingestion
Allow bulk upload in variety of formats
Allow users to add to the collections
Capture GIS information for relevant artifacts or collections
Provide automated classification of artifacts
Provide capability to update a collection automatically
Provide import capabilities for common file types

Metadata
Allow for specific schemas for different disciplines
Allow tags to be defined/customized to the researcher's reading
Freeform categorization - owner / viewer / creator / interpretation
Include social media conventions such as: number of views, ratings, tags, and comments.
Move between ad hoc and systematized tagging keywords and classification
Provide capability for designating visual or spatial orientation of artifacts, artifact content
Provide capability to organize administrative portion of schema
Support multi-dimensional tags
Support multiple creation dates for artifacts
Support Dublin Core, OAI and other open data standards

General
Supports audio and video streaming
Supports classroom work
- collaborative interface - have students crowdsource evaluating artifacts (e.g. photos)
- supports collaboration and crowdsourcing scenarios to assess class room work as: meeting or exceeding requirements, exceeding prior instances, meeting qualitative criteria
- use of workflow to move evaluated artifacts into professor's queue
- separate metadata levels for instructor and student
- integration of school/class/enrollment information; information is automatically imported into repository

Security, Reporting, and **Quality Assurance**
Seven security requirements, two reporting requirements, and three quality assurance requirements.

Visualization
Capability for visualizations to be saved, retrieved, and linked to
Generate time and space visualizations based upon multiple criteria
Allow visualizations (statistical or spatial) with overlays.
Depict relationships of distance and proximity
Discern shape of an entire collection
Easy ways to graph for visual display
Support social network visualizations abstractly, also over time and across space
Provide access to stitching tools
Provide capability as a publishing platform
Show visual morphing over time
Support the use of heat maps
Allow export of visualizations in standards formats (.pdf, .gif)

SCHOLAR'S DASHBOARD

A series of workshops held in 2012-2013 of humanities scholars, librarians and archivists, and technologists to generate functional and technical requirements for the next generation of online repositories.

www.scholarsdashboard.org

Project Director: Gwen Evans *Project Manager: Andrew M. Schocket*

Scholar's Dashboard was made possible in part by the National Endowment for the Humanities: Exploring the human endeavor

Architecture/IT Environment
Balance metadata need and the volume content - aim for "protean" metadata
Build and leverage on existing products already in use
Handle complex or compound objects (multiple data types within a single object)
Ideally to be open-source, and at least useable as a model for other implementations.
Implement a hybrid approach to metadata model - leverages strengths of both central and distributed architectures and minimizes risk.
Provide adequate backup and restore procedures to protect against loss of data due to accidental user actions, database corruption, hardware failures, and disaster recovery scenarios.
Provide well documented APIs
Support for distributed repositories / heterogeneous content
Device agnostic: adherent to latest internet standards
Support OAI and other open data standards
Support synchronization across devices - mobile, tablet, cell phone, laptop
Support the use of add-ons or plug-ins
Support web 2.0 collaborative, online publication tools.
Utilize a distributed platform
Utilize cloud architecture for cost and maintainability

User Interface
Low threshold of expertise to use (i.e. little or no training required)
Provide a full feature, web-based application through a best practice graphical user interface (i.e. rich internet application with searchable pick lists, filtering pick lists, appropriate preservation of screen data as end user navigates through the system, coherent error messages, etc.)
Provide capability to infer color from black-and-white
Qualitative brief - to skim the meaning of the artifact or the collection, identify relationships between artifacts - parent / part of network / missing relational items
Supply COinS (ContextObjects in Spans) metadata and clippable citation information for all pages, search results
Compatibility with Web Accessibility Initiative (WAI)
Provide clipping services
Support multiple languages

Search
Provide capability to generate result sets, tables, graphs, timelines, auto-generated stable url for search results
Ability to "learn" from user behavior or prior user searches
Ability to infer interesting keywords
Ability to narrow findings to relevant criteria
Ability to predict what might be valuable or interesting
Allow a search scenario that returns all sources given certain tabs or tab combinations
Allow capability for tags to infer metadata
Allow for both general public queries and more sophisticated digital humanities (DH) projects. Accordingly, must have portal to allow for differing levels of interaction with collections and tools so as to emphasize ease of use for more casual users and fine-grained flexibility for expert users.
Allow for flexible search, both through menu interface for novice users and regular expressions for advanced users
Allow for searching and analysis of hosted and affiliated collections. Solution must therefore have retention policy and other assurances (formatting, metadata, etc.) regarding both kinds of collections.
Identify similar or related research projects and their researchers
Provide capability for a learning recommendation engine, ability to enhance searches and analyses based upon previous searches and analyses.
Provide capability for searchable handwriting recognition
Provide capability such that all artifacts and collections, including reports, maps, data are archivable and discoverable
Searches can infer/recommend additional related sources
Searches can infer/recommend additional related topics
Searches can infer/recommend additional research projects.
Support syntactic interpretation

Socialization
Allow for individual accounts to save searches, search results, communications with other users
Allow for notes and comments to be graded with keywords to tags
Facilitate and encourage scholarly communication and sharing
Incentivize submission of content (like Flickr or Picasa)
Rate/comment/tag the quality of the artifact/collection