System Entities

Item:

- a discoverable unit in the digital repository.
- An item contains 0 or more components.
- If an item contains 1 or more components, it must also contain a structural metadata record.
- An item must contain one or more descriptive metadata records.
- An item is typed; the item type determines what components are valid.
- An item may have relationships with other items; ie. [item A] isMemberOfCollection [item B]
- An item will be assigned a status: Incomplete, Complete, Published, etc.
- An item can be qualified with arbitrary indicators ("Needs translation") that relate to the workflow of a given project.

Descriptive Metadata Record (DMR)

- unit of description
- Must be associated with a Metadata Profile

Component:

- an atomic unit of digital content. For example, an image, a page of a book, a text document, a pdf.
- A component contains a bitstream representing the content, or a URI pointing to a bitstream, as well as administrative metadata for the bitstream.

Relationship:

- a defined relationship linking two items in the repository
- examples of relationships: isMemberOfCollection; hasCollectionMember; isFeaturedItem; hasFeaturedItem; isPartOf; hasPart
- converse relationship types allow for bidirectional linking (ex. EAD finding aid to image, image to EAD finding aid)

ResultSet:

- an arbitrary grouping of items based on some criteria.
- Some examples of sets are all items that are members of the Gamble collection, all items that are tagged as owned by Dave K., all incomplete items, or any search reult.

Item Types:

- Collection
- Category
- NamedSet

- Image, [Multi-Image]
- Book, [Page]
- Text
- Media (audio and video)
- Query
- Pointer (uri to point to another record)

Collection:

- a collection is an item with special properties.
- A collection has relationships with other items, relationships in the form of "item" isMemberOfCollection "collection". The relationships are one-to-many, meaning that each item can only be a member of, at most, one collection.
- A collection can contain multiple categories.
- A collection may have a metadata profile associated with it.

Category:

- a defined, persistent grouping of items within a collection
- A category has relationships with other items, relationships in the form of "item" isMemberOfCategory "category". The relationships are one-to-many, meaning that each item can only be a member of, at most, one category.
- A category may have a metadata profile associated with it.
- A category may be associated with descriptive metadata record.

Image:

- an image item contains descriptive metadata and one or more image components

Book:

- a book item contains descriptive metadata and one or more page (image?) components

Text:

- a text item contains descriptive metadata and one tei-encoded xml component

Media:

- a media item contains descriptive metadata and one or more audio/video components

Pointer:

- a record contains descriptive metadata and a URI component

NamedSet:

- a NamedSet contains descriptive metadata and relationships with Items

Query:

- a query item contains descriptive metadata and a representation of a search query

Metadata Application Profile:

- See Trident/MetadataApplicationProfile.
- Metadata describing metadata use for an item. Profile is assigned to an item.
- The profile describes what metadata fields are used and which are required. The requirements are expressed with validation rules. A profile can contain 0 or more validation rules.
- The profile also includes what are considered valid values for metadata fields. In other words, the profile includes which authority lists should be used for which metadata fields.

- Validating DMR
- building DMR editing screen
- displaying DMR to end user
- providing guidance to cataloger
- formulating indexing rules

Validation Rule:

- a test that evaluates to true or false for descriptive metadata.
- The evaluation of validation rules will determine of whether or not given metadata is valid.