

Team: Spannabe
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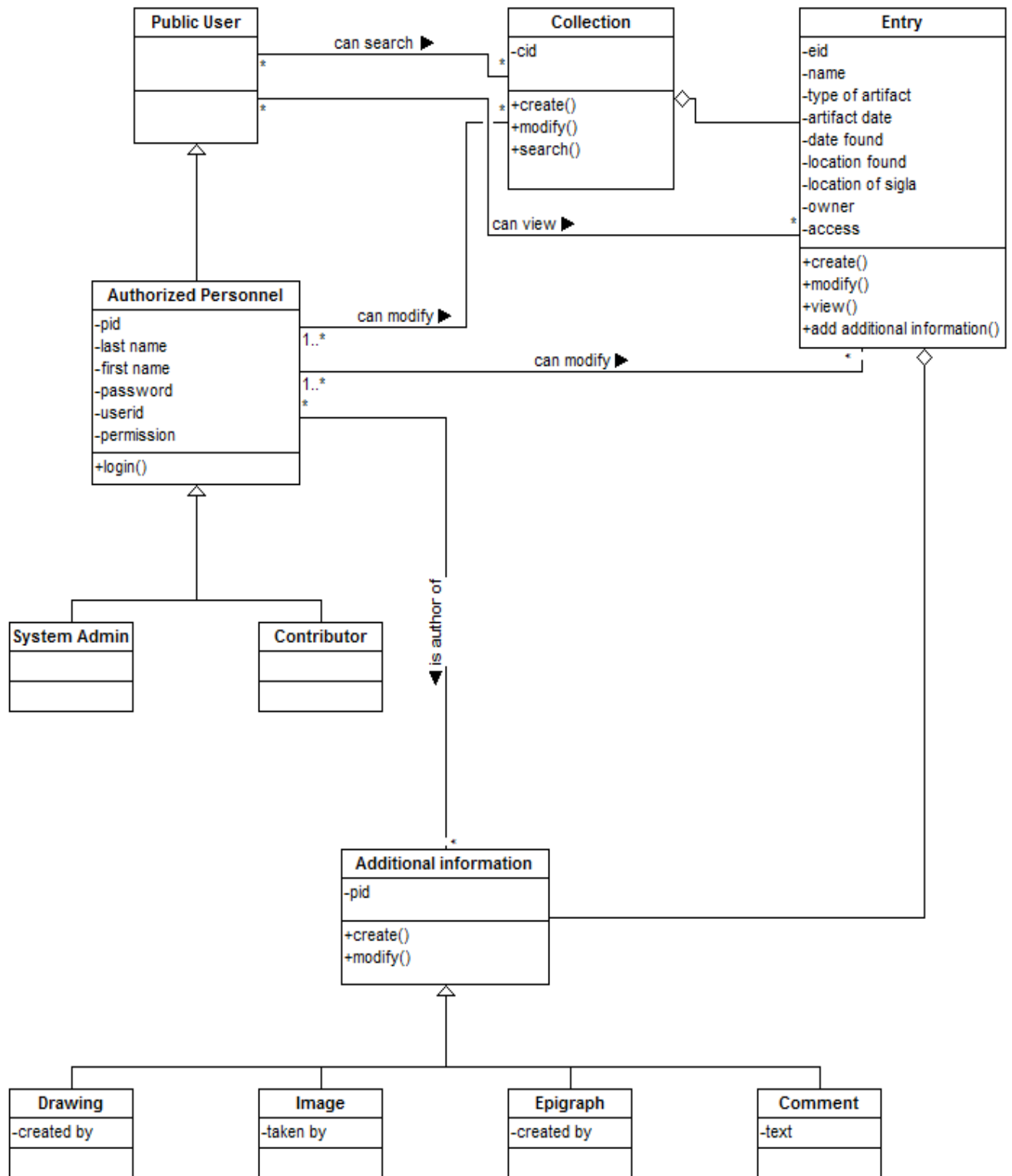
3. Functional Requirements

- 3.1 The system shall store text data.
- 3.2 The system shall store photos and drawings.
- 3.3 The system shall store epigraphs.
- 3.4 The system shall allow researchers to create entries.
- 3.5 The system shall allow researchers to modify their own non published entries.
- 3.6 The system shall number entries with unique key.
- 3.7 The system shall make researchers log in to the system for authorized access.
- 3.8 The system shall allow researchers to create comments.
- 3.9 The system shall allow the public to view the collection.
- 3.10 The system shall allow researchers to mark entries as: private(incomplete), protected(under peer review), public(published).
- 3.11 The system shall enable a researcher to provide protected access to ones data for other researchers.
- 3.12 The system shall allow researchers to tag an entry with a keyword.
- 3.13 The system shall generate citations for entries.
- 3.14 The system shall allow only the system administrator to modify entries after publishing.

4. Non-Functional Requirements

- 4.1 The system shall allow for secure log in for researchers and system administrators.
- 4.2 The system shall provide an intuitive user interface.
 - 4.2.1 The system shall provide an easy to use data entry form for researchers.
- 4.3 The system shall provide persistent storage of all data.
- 4.4 The system shall provide support for multiple languages.

5. Class Diagram



Appendix A. Class and Actor Descriptions

Name	Additional Information
Description	a resource associated with an Entry

Attributes

Name of Attribute	Data Type	Description
rid	integer	unique resource number

Methods

Method Signature	Description
create()	create a new info object
modify()	modify an existing info object

Relationships

Class Name	Type of Relationship	Comments
Drawing	Parent	
Image	Parent	
Epigraph	Parent	
Comment	Parent	

Name	Authorized Personnel
Description	actor who has greater access through logging in

Attributes

Name of Attribute	Data Type	Description
pid	integer	unique number for the user
last_name	string	last name of the user
first_name	string	first name of the user
userid	string	user id of the user
password	string	user-defined password
permission	enum	what level of permission the user has

Methods

Method Signature	Description
create()	create a new user account
login()	logs the user into the system

Relationships

Class Name	Type of Relationship	Comments
System Admin	Parent	a System Administrator is a type of Authorized Personnel
Contributor	Parent	a Contributor is a type of Authorized Personnel
Public User	Child	Authorized Personnel are like Public Users with greater privileges and a designated login.

Name	Collection
Description	object representing a container of Entry objects

Attributes

Name of Attribute	Data Type	Description
cid	integer	unique number identifying the collection

Methods

Method Signature	Description
create()	create a new collection
modify()	modify the contents of an existing collection
search()	search for an entry in the collection
add_entry()	add an entry to the collection

Relationships

Class Name	Type of Relationship	Comments
Entry	Child	a collection contains entries

Name	Comment
Description	a resource associated with an Entry

Attributes

Name of Attribute	Data Type	Description
text	string	the text of the comment
author	string	the author of the comment

Methods

Method Signature	Description
none	

Relationships

Class Name	Type of Relationship	Comments
Additional Information	Child	an Comment is a type of Additional Information

Name	Drawing
Description	a resource associated with an Entry

Attributes

Name of Attribute	Data Type	Description
image	image	image data
created_by	string	illustrator of this image

Methods

Method Signature	Description
none	

Relationships

Class Name	Type of Relationship	Comments
Additional Information	Child	a Drawing is a type of Additional Information

Name	Entry
Description	object representing a sigla entry in the database

Attributes

Name of Attribute	Data Type	Description
eid	integer	unique number for this artifact
name	string	name of the entry
owner	Contributor	researcher who created this entry
date_found	date	date of the find
date_original	date	date of the artifact
location_found	string	where the artifact was found
access_mode	Enum	for this entry (public, private, protected)
artifact_type	string	the type of artifact for this entry
sigla_location	string	location of the sigla on the artifact

Methods

Method Signature	Description
create()	create a new entry
modify()	modify existing entry data (allowed based on permissions)
view()	return all of the data for this object for display
add_info()	associate additional information, such as images

Relationships

Class Name	Type of Relationship	Comments
Contributor	Association	a contributor owns an entry
Additional Information	Child	Other info tied to the entry.
Collection	Parent	An entry can be part of a collection.

Name	Epigraph
Description	a resource associated with an Entry

Attributes

Name of Attribute	Data Type	Description
vector	blob	path information of the epigraph
created_by	string	creator of this epigraph

Methods

Method Signature	Description
none	

Relationships

Class Name	Type of Relationship	Comments
Additional Information	Child	an Epigraph is a type of Additional Information

Name	Image
Description	a resource associated with an Entry

Attributes

Name of Attribute	Data Type	Description
image	data	image data
taken_by	string	photographer of this image
date_taken	date	date this image was taken

Methods

Method Signature	Description
none	

Relationships

Class Name	Type of Relationship	Comments
Additional Information	Child	an Image is a type of Additional Information

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Actor Description

Name	General Public
Alternate Names	The Public

Input Data

Name of Use Case	Inputs to the System
Search	Specified key words on which to search the entries
View Published Entries	Specified entry to view
Generate Citation	Specified entry on which to do the citation
Find Similar Entries	Specified entry on which to find similar entries

Output Data

Name of Use Case	Outputs from the System
Search	All entries that matched the specified key words provided by the user
View Published Entries	An entry that includes all information and data corresponding to that entry
Generate Citation	A citation corresponding to the entry chosen by the user
Find Similar Entries	Entries that are similar to the original entry chosen by the user

Name	Contributors
Alternate Names	Researchers

Input Data

Name of Use Case	Inputs to the System
Log in	User Name and Password
Create Entry	Data and information pertaining to the specified entry
Create Collection	Specified entries that the contributor wants in the collection
Publish Entry	All information and data corresponding to the entry
Upload Images	An image that corresponds to some entry

Output Data

Name of Use Case	Outputs from the System
Log in	Access to create entries
Create Entry	New entry for public to view
Create Collection	A group of entries that was specified by the contributor
Publish Entry	A viewable entry that includes all information and data corresponding to that entry
Upload Images	An images that corresponds to the entry chosen by the contributor

Name	System Administrator
Alternate Names	Administrator

Input Data

Name of Use Case	Inputs to the System
Login	User Name and Password
Modify Entry	Information and data corresponding to the entry that is being modified. This includes uploading new images.

Output Data

Name of Use Case	Outputs from the System
Login	Access to create and modify entries
Modify Entry	An updated entry with changes made to the corresponding information and data