#### International Etruscan Sigla Project Software Requirements Specification Team Spannabe

#### I. Introduction

#### A. Purpose

The purpose of the Software Requirements Specification document is to clearly define the system for the International Etruscan Sigla Project (IESP). The indented audience of this document is the team working on the IESP and the development team.

#### B. Scope of the System Specified

The team working of the sigla project wants to create a system that stores information about the various artifacts that they collect during their studies. The researchers working on the project will be able to publish information about the artifacts they are studying. The general public will be able to view the artifacts through a web server.

C.Definitions, Acronyms, a	and Abbreviations
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Researcher	Person working on project who has permission to post material on the website
Contributor	Synonym for Researcher
Functional	A service provided by the software system
requirement	
Non-functional	A constraint on the system or how the system is
requirements	developed
Artifact	A physical object with one or more sigla on it
Sigla	Etruscan nonverbal writings
SRS	Software Requirements Specification document
IESP	International Etruscan Sigla Project
Entry	A posting of a single artifact on the web server that
	includes text, photos and drawings
Collection	Group of entries
EID	Entry Identification Number
CID	Collection Identification Number

#### D. References to Supporting Documents

There are none at this time.

#### E. Overview of rest of SRS

Section 2 of the SRS describes the product in more detail. Section 3 provides a complete list of the functional requirements of the intended system. Section 4 provides the non-functional requirements. Section 5 shows the class diagram, and Section 6 the use case diagram. The appendices appear next.

#### **II.General Description**

#### **2.Product Perspective**

The system is web-based, providing functionality to users through a web browser. It interfaces with a database that stores all of the relevant information regarding the authorized personnel, and the Etruscan artifacts. The system provides a secure environment for authorized personnel to submit information and manage data about Etruscan artifacts so that associations may be analyzed and better understood.

#### **3.Product Functions**

The system allows public users to search entries by means of keywords, browsing trees, and by choosing from a list of similar entries. They may also view entries on the site and retrieve a citation of the corresponding artifact entry.

Authorized personnel have the ability to log into the system and manipulate the data. They're split into two categories, contributors and system administrators.

A contributor has the ability to manipulate data by creating entries, creating collections of entries and modifying collections as well as unpublished entries. They also have the ability to add additional information to each entry. A contributor may choose to make data official and publish an entry to be displayed. Once published, they may no longer modify an entry. Each contributor also has the same abilities as public users.

A system administrator is allowed to manage contributor accounts as well as modify published entries. Because a contributor must be verified before their account is activated, this is an important task to the system. Also, they are the only one who may modify any data once it's been published so that the system remains stable and accurate. System Administrators have the additional permissions of both contributors as well as public users.

#### **4.User Characteristics**

Interaction with the system is carried out by the three groups of public users, contributors and system administrators. A public user is anyone who is accessing the system without the need for any special permissions. They are limited in functionality, but require nothing more than the knowledge of how to use a web browser.

A contributor is someone who has been authorized to log into the site and modify data. They must be familiar with the format of the system as well as the relevant data for an artifact entry. This may require minimal training in order to familiarize oneself with the system. A contributor has the ability to organize entries in the form of a collection to provide more ease of use.

A system administrator is someone who has authorization to log into the site, as well as modify publish and unpublished entries. It is the responsibility of a system administrator to verify and manage contributor accounts. They must be very familiar with the system and understand the requirements of entries and contributors. They have the highest permissions in the system and may modify data that has been published and is important to keep consistent.

#### **5.General Constraints**

The system provides web access for all users. The user interface should be intuitive enough so that there is no training required to search and view entries or generate citations. Contributors and system administrators must also be able to easily understand the system and how to create and modify data appropriately. All data of authorized personnel as well as artifact information will be stored securely. Persistent information on all artifacts and authorized personnel will be maintained.

#### **6.**Assumptions and Dependencies

There are no assumptions or dependencies at this time.

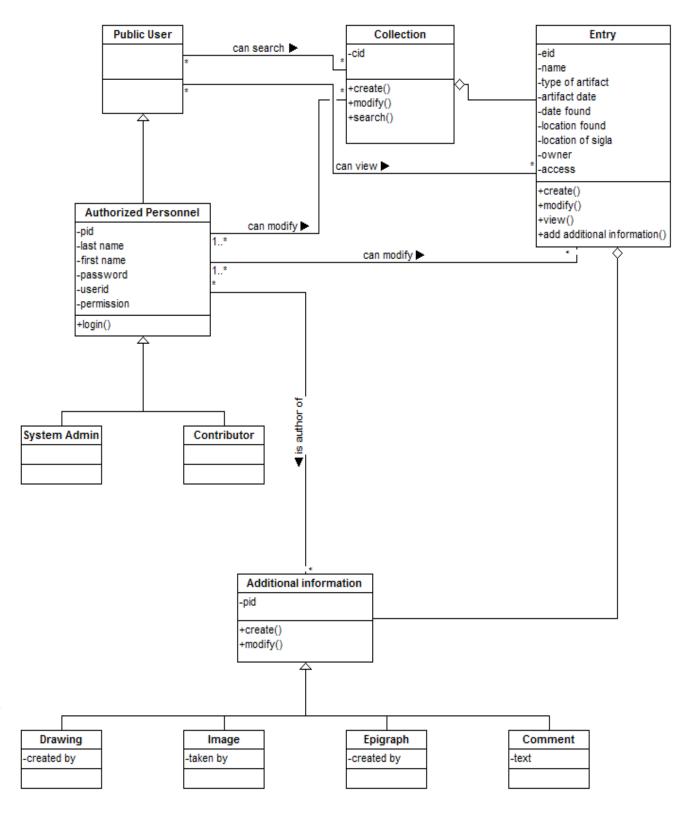
### **3. Functional Requirements**

- 3.1 The system shall store text data.
- 3.2 The system shall store images 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.
- 3.15 The system shall allow researchers to create collects of entries.
  - 3.15.1 The system shall allow researchers to modify their collections.
- 3.16 The system shall allow the administrator to modify contributors accounts.
- 3.17 The system shall provide graphical annotation for artifact images.
- 3.18 The system shall provide detail data for the entries.

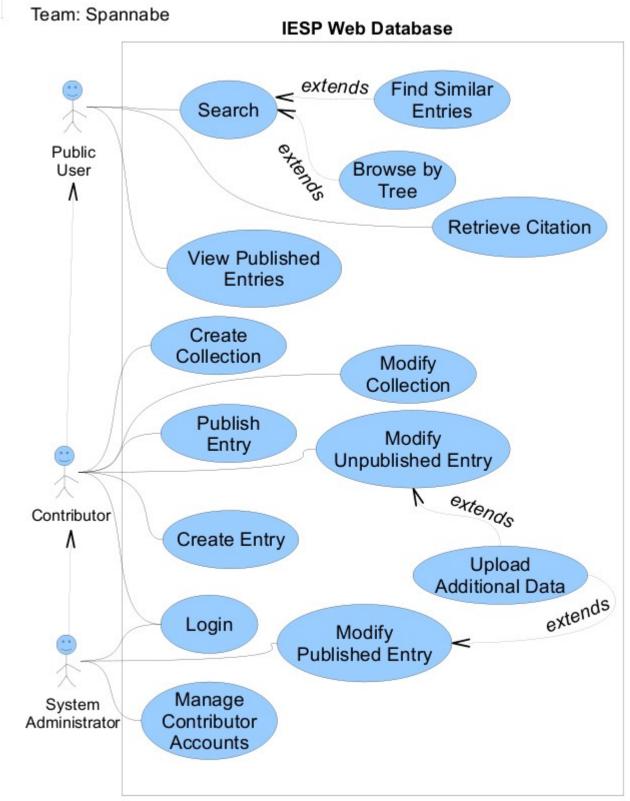
### 4. Non-Functional Requirements

- 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.
- 4.5 The site shall have a consistent format.
- 4.6 The site shall be coded in a uniform software language.
- 4.7 The site shall be usable in multiple browsers.

# 5. Class Diagram



## 6. Use Case 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

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	

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

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	

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

# Use Case Descriptions

Name	Login
ID	1
Requirement Number	3.7
Description	A user logs into the system with their username and password
Primary Actor	Contributor
Secondary Actor(s)	System Administrator
Pre-condition	User has an account
Post-condition	User will be logged into the system as either a contributor or a
	system administrator.
	User will now have the appropriate options to modify data.
Trigger	User chooses "Login" option

### Normal Scenario

1.	User inputs username into username text field.	
2.	User inputs password into password text field.	
3.	User chooses "Login" button.	
4.	System validates login information.	
5.	System displays "Successful login" message.	

4.1	Login validation fails due to incorrect or missing information	
	4.1.a System displays a failed login message.	
	4.1.b System clears the login and password fields.	

Name	Search
ID	2
Requirement Number	3.10
Description	The user searches the system based on keywords
Primary Actor	Public User
Secondary Actor(s)	Contributor, System Administrator
Pre-condition	User has accessed site and typed keyword(s) into the search field.
Post-condition	System will display artifact pages relevant to keywords
Trigger	User chooses the "Search" option

1.	User enters keywords into search text field.	
2.	User optionally changes the search criteria (default is all types) which includes	
	researcher, sigla, keywords, year found, etc.	
3.	User clicks "search button".	
4.	System tokenizes all the words entered into search text field.	
5.	System checks the database for any artifacts with criteria matching keyword.	
6.	System adds artifacts to a list.	
7.	Repeat steps 5-6 as necessary.	
8.	System displays a list of possible artifacts ranging from most relevant to least relevant	
	(relevant meaning most matching criteria).	

4.1	Search field is blank	
	4.1.a System displays "No search information" message.	
6.1	Nothing matching current keyword exists	
	6.1.a Move to the next keyword without adding anything	

Name	Retrieve Citation
ID	3
Requirement Number	3.14
Description	The system provides a citation of the artifact's site.
Primary Actor	Public Citation
Secondary Actor(s)	Contributor, System Administrator
Pre-condition	User is viewing artifact information
Post-condition	System displays citation for artifact webpage being viewed.
Trigger	User chooses "Generate Citation" option.

1.	System gathers artifact information.
2.	System creates a formatted citation for reference use according to APA standards.
3.	System creates new window.
4.	System displays citation in new window.

### Extensions

3.1	System cannot create new window	
	3.1.a Display window creation error message.	

Name	Create Entry
ID	5
Requirement Number	3.4
Description	Defines how the contributor and system administrator create new entries to
	the system
Primary Actor	Contributor or System Administrator
Secondary Actor(s)	
Pre-condition	User must have contributor or system administrative permissions
Post-condition	A newly created entry exists in the system, user logged into the system
Trigger	User selects to create a new entry

### **Normal Scenario**

1.	User selects option to create new entry
2.	System provides a form with fields and text boxes to add new data
3.	User adds all data corresponding to the new entry
4.	User saves new entry
5.	System provides a successful message that new data has been updated
6.	User logs out of the system

5.1	Formatting of form fields is wrong
	5.1.a – Provide the user with an error message and allow for changes to be made to the form

Name	Upload Additional Data
ID	4
Requirement Number	3.5
Description	Defines how the contributor and system administrator upload additional
	data to already publish entries
Primary Actor	Contributor or System Administrator
Secondary Actor(s)	
Pre-condition	A published entry already exist, user must have contributor or system
	administrative permissions, user logged into the system
Post-condition	Entry has been updated
Trigger	User selects to add new data to existing entry

1.	User selects to search for an entry
2.	System provides a pop up window to find a particular entry
3.	User selects an entry
4.	User selects option to upload additional data to an entry
5.	System provides a form with fields and text boxes to add new data
6.	User adds all new data corresponding to the entry
7.	User saves additional data to entry
8.	System provides a successful message that the new data has been updated
9.	User signs out of system

3.1	Chosen entry does not exist:	
	3.1.a – User creates a new entry into system	
8.1	Formatting of form fields is wrong	
	8.1.a – Provide the user with an error message and allow for changes to be made to the form	

Name	Publish Entry
ID	6
Requirement Number	3.10
Description	Defines how the contributor and system administrator publish newly created entries to the system
Primary Actor	Contributor or System Administrator
Secondary Actor(s)	
Pre-condition	User must have contributor or system administrative permissions, a created entry must exist, user logged into the system
Post-condition	A newly published entry in the system viewable to all users
Trigger	User selects to publish a completed entry

1.	User selects to search for an entry
2.	System provides a pop up window to find a particular entry
3.	User selects an entry
4.	User selects option to publish completed entry
5.	System provides a form with fields and text boxes to revises entry data
6.	User changes any fields if necessary
7.	User chooses to publish entry
8.	System provides a successful message that new data has been updated
9.	User logs out of the system

#### Extensions

1.1	Entry does not exist:	
	1.1.a – User creates new entry, go to step 4	
8.1	Formatting of form fields is wrong	
	8.1.a – Provide the user with an error message and allow for changes to be made to the form	

Name	Modify Collection
ID	7
Requirement Number	03/15/01
Description	Defines how the contributor and system administrator modify existing collections of entries
Primary Actor	Contributor or System Administrator
Secondary Actor(s)	
Pre-condition	User must have contributor or system administrative permissions, a
	collection must already exist, user logged into the system
Post-condition	An updated existing collection with specified changes made to it
Trigger	User selects to modify specific collection

1.	User selects to search for a collection
2.	System provides a pop up window to find a particular collection
3.	User selects a collection
4.	User selects option to modify collection

5.	System provides a form with fields and text boxes to revise collection data
6.	User modifies collection
7.	User saves modifications to collection
8.	System provides a successful message that new data has been updated
9.	User logs out of system

#### Extensions

1.1	Collection does not exist:	
	1.1.a – User makes collection of specified entries, go to step 4	
8.1	Formatting of form fields is wrong	
	8.1.a – Provide the user with an error message and allow for changes to be made to the form	

Name	Modify Unpublished Entry
ID	8
Requirement Number	3.5
Description	This use case defines how a contributor can modify their unpublished
	entries.
Primary Actor	Contributor
Secondary Actor(s)	System Administrator
Pre-condition	An unpublished entry exists.
Post-condition	An unpublished entry is modified.
Trigger	Contributor selects the Modify Unpublished Entry option in the system.

## **Normal Scenario**

1.	Contributor logs in to the system.
2.	Contributor selects which of his entries to modify.
3.	Contributor changes text, photos or drawings for the entry.
4.	Contributor saves his changes.
5.	Changes are written to the database.
6.	Contributor logs out of the system.

6.1	Contributor has not saved changes:	
	6.1a System prompts user to see if he wants to save changes.	

Name	Modify Published Entry
ID	9
Requirement Number	3.15
Description	This use case defines how a published entry may be modified.
Primary Actor	System Administrator
Secondary Actor(s)	
Pre-condition	A Published entry with an error exists.
Post-condition	A Published entry is modified.
Trigger	System Administrator selects the Modify Published Entry option in the
	system.

1.	System Administrator logs in to the system.
2.	System Administrator finds the entry with an error.
3.	System Administrator fixes the error.
4.	System Administrator saves the changes.
5.	Changes are written to the database.
6.	System Administrator logs out of the system.

#### Extensions

4.1	The System reminds the user that the entry has been published	
	4.1a System prompts user to make sure he wants to save changes.	

Name	Manage Contributor Accounts	
ID	10	
Requirement Number3.16		
Description	<b>on</b> This use case defines how Contributor accounts are created.	
Primary Actor System Administrator		
Secondary Actor(s)		
<b>Pre-condition</b> A System Administrator and another person exist.		
<b>Post-condition</b> A Contributor account is created or the request is denied.		
<b>Frigger</b> A person requests creation of a Contributor account.		

1.	System Administrator logs in to the system.
2.	System Administrator looks up the account request.
3.	System Administrator evaluates the requester.
4.	System Administrator decides if the request will be granted.
5.	If the request is granted the account is created, otherwise nothing happens.
6.	System Administrator notifies the requestor of the decision.
7.	System Administrator logs out of the system.

Name	Browse by Tree
ID	11
Requirement Number3.9	
<b>Description</b> This use case defines how the public can view the entries.	
Primary Actor Public User	
Secondary Actor(s)	
<b>Pre-condition</b> An Entry exists.	
Post-conditionOne or more Entries are viewed.	
TriggerA public user loads the website.	

1.	User clicks on a link to go to another page.	
2.	Step 1 is repeated until the User finds an entry they wish to view.	
3.	Steps 1 and 2 are repeated until the User is done looking.	
4.	The User leaves the website.	

1.1	User clicks on a link:	
	1.1a User is brought to another page or the menu he is clicking on changes to show more options.	

# Attribute Descriptions

Name	rid
Class Name	AdditionalInformation
Alternate Name(s)	resource identifier
Туре	integer
Length	any
Output Format	numeric
Default Value	-1
Acceptable Values	0 through MAX_INT
Source (where value comes from)	generated automatically
Derivation Formula	1 + rid of last generated value
Description	uniquely tags image and other data in the system
Comments	none

Name	firstname
Class Name	Authorized Personnel
Alternate Name(s)	none
Туре	string
Length	any
Output Format	string
Default Value	NULL
Acceptable Values	any
Source (where value comes from)	the user, during account creation
Derivation Formula	none
Description	first name of the user
Comments	none

Name	lastname
Class Name	Authorized Personnel
Alternate Name(s)	none
Туре	string
Length	any
Output Format	string
Default Value	NULL
Acceptable Values	any
Source (where value comes from)	the user, during account creation
Derivation Formula	none
Description	last name of the user
Comments	none

Name	password
Class Name	Authorized Personnel
Alternate Name(s)	none
Туре	string
Length	6-10 characters
Output Format	string
Default Value	none
Acceptable Values	any
Source (where value comes from)	the user, during account creation
Derivation Formula	none
Description	the user's password
Comments	must meet minimum security requirements for
	password complexity

Name	permission
Class Name	Authorized Personnel
Alternate Name(s)	none
Туре	enum
Length	n/a
Output Format	n/a
Default Value	PUBLIC
Acceptable Values	any
Source (where value comes from)	assigned by a system administrator to another
	account, based on their access permissions
Derivation Formula	none
Description	enum showing the access level of a certain user
Comments	not modifiable by anyone other than a system
	administrator

Name	pid
Class Name	Authorized Personnel
Alternate Name(s)	personnel id
Туре	integer
Length	any
Output Format	numeric
Default Value	-1
Acceptable Values	0 through MAX_INT
Source (where value comes from)	generated automatically
Derivation Formula	1 + rid of last generated value
Description	uniquely id of a user
Comments	none

Name	userid
Class Name	Authorized Personnel
Alternate Name(s)	none
Туре	string
Length	6-12 characters
Output Format	string
Default Value	lastname
Acceptable Values	any
Source (where value comes from)	the user, during account creation, contingent upon availability of the name
Derivation Formula	none
Description	the user's unique account username
Comments	none

Name	cid
Class Name	Collection
Alternate Name(s)	none
Туре	integer
Length	any
Output Format	numeric
Default Value	-1
Acceptable Values	0 to MAX_INT
Source (where value comes from)	automatically generated when the collection is
	created
Derivation Formula	1 + the last cid generated
Description	the unique identifier of a collection
Comments	none

Name	author
Class Name	Comment
Alternate Name(s)	none
Туре	string
Length	any
Output Format	string
Default Value	NULL
Acceptable Values	a username
Source (where value comes from)	the user who initiates comment creation
Derivation Formula	none
Description	the author of the comment
Comments	none

Name	text
Class Name	Comment
Alternate Name(s)	none
Туре	string
Length	any
Output Format	string
Default Value	NULL
Acceptable Values	any
Source (where value comes from)	the user who initiates comment creation
Derivation Formula	none
Description	the main text of a comment
Comments	none

Name	created_by
Class Name	Drawing
Alternate Name(s)	none
Туре	string
Length	any
Output Format	string
Default Value	NULL
Acceptable Values	any
Source (where value comes from)	the user upon creation of drawing resource
Derivation Formula	none
Description	the name of the individual who drew this drawing
Comments	none

Name	image
Class Name	Drawing
Alternate Name(s)	none
Туре	Image
Length	n/a
Output Format	Image
Default Value	NULL
Acceptable Values	any Image data
Source (where value comes from)	the user upon creation of drawing resource
Derivation Formula	none
Description	the actual data of the drawing resource
Comments	none

Name	date_found
Class Name	Entry
Alternate Name(s)	none
Туре	date
Length	any
Output Format	date
Default Value	NULL
Acceptable Values	any
Source (where value comes from)	the user during creation of the entry
Derivation Formula	none
Description	the date the artifact was found
Comments	none

Name	date_original
Class Name	Entry
Alternate Name(s)	none
Туре	date range
Length	any
Output Format	range of dates
Default Value	NULL
Acceptable Values	any
Source (where value comes from)	the user during creation of the entry
Derivation Formula	none
Description	the approximate date of the artifact, as a range
Comments	the range is really two dates comprising the
	possible range of dates for the artifact

Name	eid
Class Name	Entry
Alternate Name(s)	none
Туре	integer
Length	any
Output Format	numeric
Default Value	-1
Acceptable Values	0 to MAX_INT
Source (where value comes from)	automatically generated upon creation of new entry
Derivation Formula	1 + the last eid generated
Description	unique identifier of an entry in the system
Comments	none

Name	location_found
Class Name	Entry
Alternate Name(s)	none
Туре	string
Length	any
Output Format	string
Default Value	NULL
Acceptable Values	any
Source (where value comes from)	the user during creation of the entry
Derivation Formula	none
Description	the location where the artifact was found
Comments	could be a name, or even GPS values

Name	access_mode
Class Name	Entry
Alternate Name(s)	none
Туре	enum
Length	n/a
Output Format	n/a
Default Value	PRIVATE
Acceptable Values	any valid enumeration
Source (where value comes from)	the user during creation or modification of the entry
Derivation Formula	none
Description	the user's designated access mode for the entry,
	determining who can see it
Comments	primarily of the form private, protected, and public

Name	name	
Class Name	Entry	
Alternate Name(s)	none	
Туре	string	
Length	any	
Output Format	string	
Default Value	eid	
Acceptable Values	any	
Source (where value comes from)	the user during creation of the entry	
Derivation Formula	none	
Description	the title assigned to the entry by the user, not	
	necessarily unique	
Comments	none	

Name	owner	
Class Name	Entry	
Alternate Name(s)	none	
Туре	Contributor	
Length	n/a	
Output Format	n/a	
Default Value	NULL	
Acceptable Values	any valid contributor	
Source (where value comes from)	automatically assigned based on the user who is	
	creating the entry	
Derivation Formula	none	
Description	the contributor who "owns" the entry	
Comments	none	

Name	sigla_location	
Class Name	Entry	
Alternate Name(s)	none	
Туре	string	
Length	any	
Output Format	string	
Default Value	NULL	
Acceptable Values	any	
Source (where value comes from)	the user during creation of the entry	
Derivation Formula	none	
Description	the described location of the sigla on the artifact	
Comments	none	

Name	artifact_type
Class Name	Entry
Alternate Name(s)	none
Туре	string
Length	any
Output Format	string
Default Value	NULL
Acceptable Values	any
Source (where value comes from)	the user during creation of the entry
Derivation Formula	none
Description	the type of artifact
Comments	none

Name	created_by	
Class Name	Epigraph	
Alternate Name(s)	none	
Туре	string	
Length	any	
Output Format	string	
Default Value	user creating the epigraph object	
Acceptable Values	any	
Source (where value comes from)	the user upon creation of the epigraph resource	
Derivation Formula	none	
Description	the individual who created the epigraph	
Comments	none	

Name	vector	
Class Name	Epigraph	
Alternate Name(s)	path	
Туре	blob	
Length	n/a	
Output Format	any	
Default Value	NULL	
Acceptable Values	any valid data representing the vector path of the	
	epigraph	
Source (where value comes from)	the user upon creation of the epigraph resource	
Derivation Formula	none	
Description	the actual vector data for the epigraph, usually	
	machine generated file	
Comments	all vectors should be stored to a similar file-type	

Name	date_taken
Class Name	Image
Alternate Name(s)	none
Туре	date
Length	any
Output Format	date
Default Value	creation date
Acceptable Values	any
Source (where value comes from)	the user upon creation of image resource
Derivation Formula	none
Description	the date the photo was taken
Comments	none

Name	image	
Class Name	Image	
Alternate Name(s)	none	
Туре	Image	
Length	n/a	
Output Format	Image	
Default Value	NULL	
Acceptable Values	any Image data	
Source (where value comes from)	the user upon creation of image resource	
Derivation Formula	none	
Description	the actual data of the image resource	
Comments	none	

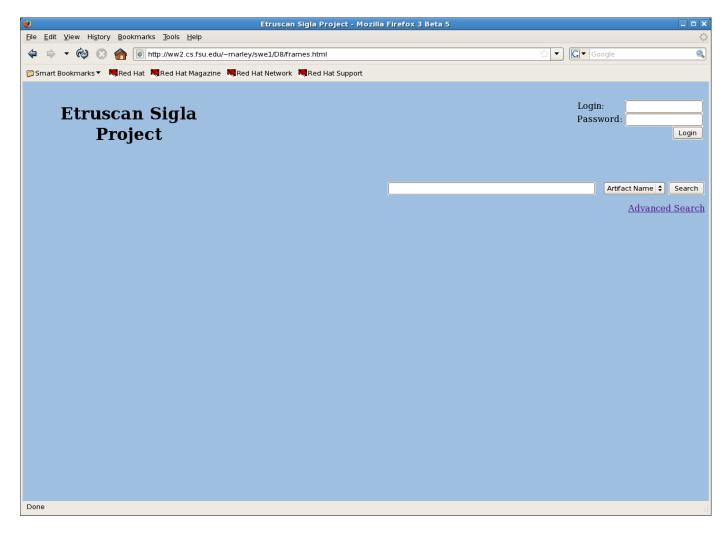
Name	taken_by
Class Name	Image
Alternate Name(s)	none
Туре	string
Length	any
Output Format	string
Default Value	NULL
Acceptable Values	any
Source (where value comes from)	the user upon creation of image resource
Derivation Formula	none
Description	the name of the individual who took this photo
Comments	none

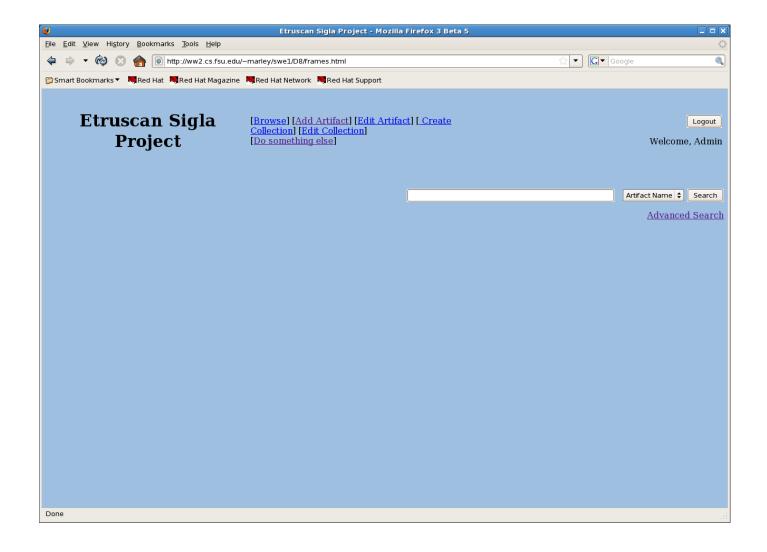
# Appendix B: Raw Use Case Analysis

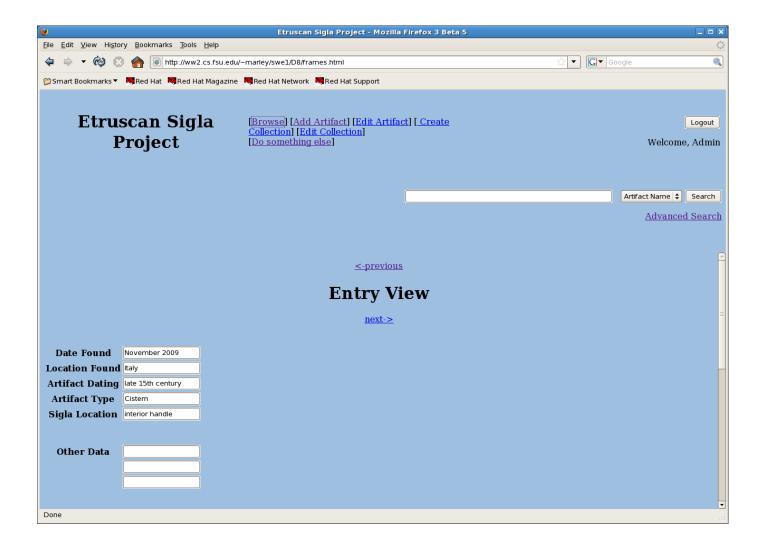
Use Case Name Use Case Name	Number of Transactions	Use Case Type	Use Case Points
Search	5	Average	10
Find Similar Entries	4	Average	10
Browse by Tree	4	Average	10
Retrieve Citation	3	Simple	5
View Published	3	Simple	5
Entries		- r -	
Create Collection	2	Simple	5
Modify Collection	2	Simple	5
Publish Entry	2	Simple	5
Modify Unpublished	4	Average	10
Entry			
Create Entry	2	Simple	5
Login	2	Simple	5
Upload Additional	4	Average	10
Data			
Modify Published	3	Simple	5
Entry			
Manage Contributor	1	Simple	5
Accounts			
		Total:	95

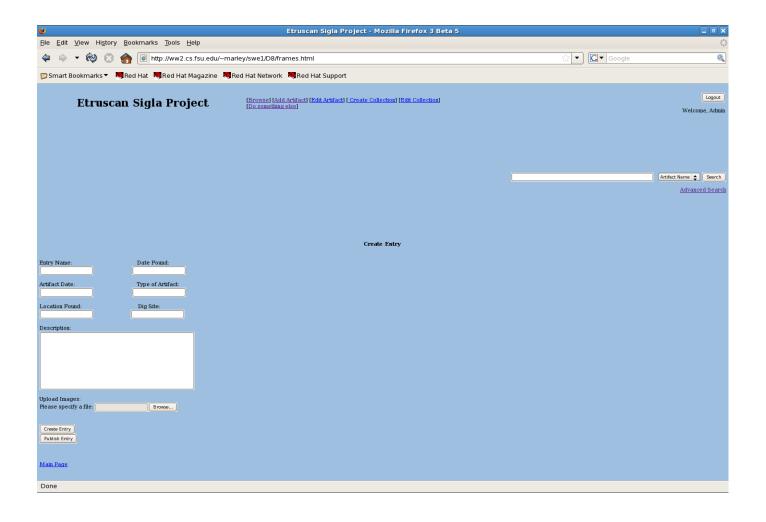
<b>Actor Points</b>		
Actor Name	Actor Type	<b>Actor Points</b>
Public User	Complex	3
Contributor	Complex	3
System Administrator	Complex	3
	Total	9

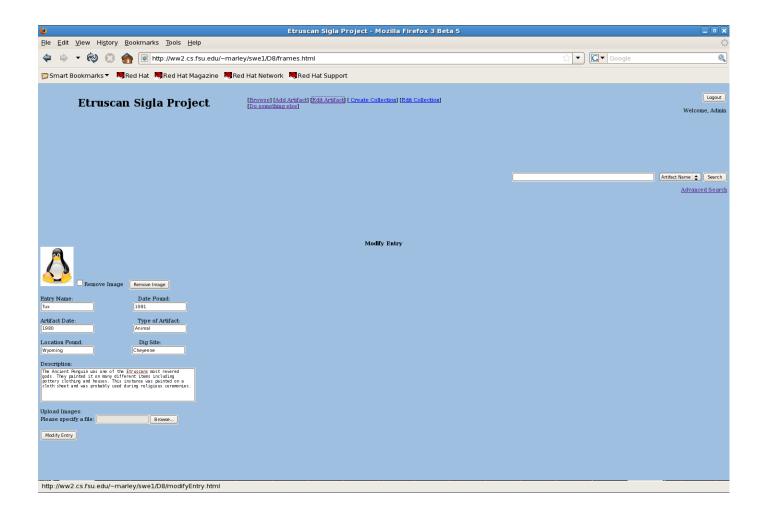
**Appendix C: Screens and Navigation Matrix** 











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	Edit Collection		
Collection Name			
Entry 1 Remove Entry Entry 2 Remove Entry Entry 3 Remove Entry Remove Entire(s)	y		
Add Entry Add Entry			
	Cancel Save		
http://ww2.cs.fsu.edu/~marley/swe1/D8/editcollection.html			

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Etruscan Sigla Project	[Browse] [Add Artifact] [Edit Artifact] [ Create ( [Edit Collection] [Do something else]	Collection]	Logout ) Welcome, Admin
		[]	Artifact Name 🗘 Search
	Artifact Name:		
	Dig Site: Year found:		
	Type of Artifact: Contributo	r:	
	Search		
http://ww2.cs.fsu.edu/~marley/swe1/D8/advanced.html			

# Appendix D: Scenarios Analysis Table

# Scenario Analysis Tables

Use Case Name	Login
Use Case ID	1

Step	Step Text	Data	Screens	Reports
#		Stored	Needed	Needed
1	User enters name and		User Login	
	password.		Screen	
2	User selects the		User Login	
	"Login" button.		Screen	
3	System validates user			
	information.			
4	Upon success, the			
	user is granted access			
	to unpublished files			
	and appropriate			
	privileges.			

Use Case Name	Search
Use Case ID	2

Step	Step Text	Data	Screens	Reports
#		Stored	Needed	Needed
1	User enters text in the form corresponding to the field they want to search on. That is, the word(s) are what they're searching for on the corresponding field.		Search Screen	
2	The user selects the field they want to search on from a selection given to them. They may search all fields for matches or a specific field.		Search Screen	
3	User selects the "Search" button.		Search Screen	
4	System queries the database for any entries that match or are similar to the search criteria			
5	System generates a web page of search results.		Search Results	

Use Case Name	Retrieve Citation
Use Case ID	3

Step	Step Text	Data	Screens	Reports
#		Stored	Needed	Needed
1	User <u>searches</u> for artifact(s).		Search Screen	
2	User selects an artifact web page from the search results.		Search Results	
3	User <u>views</u> web page.		View Entry	
4	User selects the "Generate Citation" button.		Retrieve Citation	
5	System gathers relevant artifact information and provides a formatted citation.		Retrieve Citation	

Use Case Name	Upload Additional Data
Use Case ID	4

Step	Step Text	Data	Screens	Repor
#		Stored	Needed	ts Neede d
1	User logs into the system		Log In screen (User name, Password)	
2	User selects option to upload additional data to an entry		Option Screen (specifies how the user can interact with the system)	
3	User selects on which entry to upload additional data		Entry Selection Screen	
4	User adds new data to the entry		Entry Modification Screen	
5	User revises newly added data		Entry Modification Screen	
6	User saves additional data to entry	New data for specified entry	Entry Modification Screen, Entry Modification report screen (successful, failure)	
7	User signs out of the system		Log Out Screen	

Use Case Name	Create Entry
Use Case ID	5

Step #	Step Text	Data Stored	Screens Needed	Repor ts Neede d
1	User logs into the system		Log In screen (User name, Password)	
2	User selects option to create new entry		Option Screen (shows options on how the user can interact with the system)	
3	User adds all data corresponding to the new entry		New Entry Screen	
4	User revises new entry		New Entry Screen	
5	User saves new entry	New entry with specified data	New Entry Screen, New entry added report screen (successful, failure)	
6	User logs out of the system		Log Out Screen	

Use Case Name	Publish Entry
Use Case ID	6

Step	Step Text	Data	Screens	Repor ts
#		Stored	Needed	Neede d
1	User logs into the system		Log In screen (User name, Password)	
2	User selects option to publish completed entry		Option Screen (shows options on how the user can interact with the system)	
3	User revises entry		Entry Modification Screen	
4	User publishes entry	Newly Published Entry	Publish Entry Screen, Publish Entry Result Screen (successful, failure)	
5	User signs out of the system		Log Out Screen	

Use Case Name	Modify Collection			
Use Case ID	7			

Step #	Step Text	Data Stored	Screens Needed	Repor ts Neede d
1	User logs into the system		Log In screen (User name, Password)	
2	User selects option to modify collection		Option Screen (shows options on how the user can interact with the system)	
3	User modifies collection		Collection Modification Screen	
4	User revises modifications to the collection		Collection Modification Screen,	
5	User saves modifications to the collection	Newly update collection	Collection Modification result screen (successful, failure)	
6	User logs out of the system		Log Out Screen	

Use Case Name	Modify Unpublished Entry
Use Case ID	8

Step	Step Text	Data	Screens	Reports
#		Stored	Needed	Needed
1	Contributor logs in to	Log in	Log in	
	the System.	info		
2	Contributor selects			
	which of his entries			
	to modify.			
3	Contributor changes		Modify Artifact	
	text, photos or			
	drawings for the entry			
4	Contributor saves his	Chang		
	changes.	es to		
		an		
		entry		
5	Changes are written			
	to the database			
6	Contributor logs out			
	of the system			

Use Case Name	Modify Published Entry
Use Case ID	9

Step	Step Text	Data	Screens	Reports
#		Stored	Needed	Needed
1	System Administrator	Log in	Log in	
	logs in to the System.	info		
2	System Administrator			
	finds the entry with			
	an error			
3	System Administrator		Modify Artifact	
	fixes the error.			
4	System Administrator	Chang		
	saves the changes.	es to		
		an		
		entry		
5	Changes are written			
	to the database			
6	System Administrator			
	logs out of the system			

Use Case Name	Manage Contributor Accounts
Use Case ID	10

Step	Step Text	Data	Screens	Reports
#		Stored	Needed	Needed
1	System Administrator	Log in	Log in	
	logs in to the system.	info		
2	System Administrator	Contri		
	looks up the account	butor		
	request.	info		
3	System Administrator		Manage	
	evaluates the		Contributors	
	requester.			
4	System Administrator			
	decides if the request			
	will be granted.			
5	If the request is			
	granted the account is			
	created, otherwise			
	nothing happens.			
6	System Administrator			
	notifies the requester			
	of the decision.			
7	System Administrator			
	logs out of the			
	system.			

Use Case Name	Browse by Tree
Use Case ID	11

Step	Step Text	Data	Screens	Reports
#		Stored	Needed	Needed
1	User clicks on a link		View Artifact	
	to go to another page.			
2	Step 1 is repeated			
	until the User finds			
	an entry they wish to			
	view.			
3	Steps 1 and 2 are		Modify Artifact	
	repeated until the			
	User finds an entry			
	they wish to view.			
4	The User leaves the			
	website.			

Appendix E: Screens and Reports List

Screen/Report ID	Туре	Screen/Report Name	Use Cases That Use this Screen/Report
SCR001	I/O	View Artifacts	Search, View Published Entries, Retrieve Citation
SCR002	Ι	Create Artifact	Create Entry, Login
SCR003	Ι	Modify Artifact	Modify Unpublished Entry, Login
SCR004	Ι	Manage Collection	Create Collection, Modify Collection
SCR005	Ι	Publish Artifact	Publish Entry, Login
SCR006	Ι	Upload Picture	Upload Additional Data, Login
SCR007	Ι	Manage Contributors	Manage Contributor Accounts , Login