

# International Etruscan Sigla Project Software Requirements Specification

## I. Introduction

### A. Purpose

The purpose of this Software Requirements Specification document is to clearly define the system under development, that is, the International Etruscan Sigla Project (IESP). The intended audience of this document is the user including the staff of the project, researchers, and the general public. Other intended audience include the development team such as the requirements team, requirements analyst, design team, and other members of the developing organization.

### B. Scope of the System Specified

The International Etruscan Sigla Project aims to assemble documentation on the thousands of examples of Etruscan nonverbal writing; therefore, the IESP system will provide online functionality for general users, researchers, and staff members. General users may search the collection, view artifacts, view news, view help documentation, and register as researchers. Researchers have all the functionality of general users and may also comment on artifacts, manage their artifacts, manage their accounts, and manage their personal collections. Staff members have all the functionality of researchers and may also delete comments, update the news section, create siglum tags, and manage users.

As the system being designed for the IESP is web-based, the information it maintains can be updated from a worldwide community of historical and archaeological researchers which will enhance the research by providing a comparative study on Etruscan writing. In addition, this system will be accessible to all interested members of the general public who have access to the Internet and would promote new interests in the anthropological sciences.

**C. Definitions, Acronyms, and Abbreviations**

General User	All members of the general public.
Researcher	Any member of the general public who has registered and been verified as a researcher by a staff member.
Staff	A person with administrative power in the IESP.
Functional requirement	A service provided by the software system.
Non-functional requirement	A constraint on the system or how the system is developed.
SRS	Software Requirements Specification document
IESP	International Etruscan Sigla Project
Siglum	Etruscan nonverbal writing (singular)
Sigla	Etruscan nonverbal writing (plural)
Tag	Description of sigla found on an artifact. An artifact may have zero or more tags.
GIF	Graphics Interchange Format
HTML	Hypertext Markup Language
JPEG	Joint Photographic Experts Group
SQL	Structured Query Language

**D. References to Supporting Documents**

Actor, Attribute, Class, and Use Case descriptions – provided in Appendix A

Use Case Point Analysis – provided in Appendix B

Screen and Report Outputs List – provided in Appendix E

## **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**

### **A. Product Perspective**

The IESP is a web-based system. The system requires a Database Management interact with the system through any modern Web browser (i.e.: Firefox, Internet Explorer, Safari).

The main purposes of the system are to allow for cataloging of research on Etruscan artifacts and their sigla to enable researchers to share each other's work, and also to allow for grouping of similar sigla on the artifacts to increase productivity of researchers who conventionally analyze and sort sigla data manually.

The project will be staffed with researchers in the field and some technical staff to maintain the system and provide support to researchers.

Florida State University is the only institution currently involved, but others have also shown interest in future involvement.

### **B. Product Functions**

Users can access the system through any modern Web browser. Upon reaching the site, users can browse the database of Etruscan artifacts. The system has information about these Etruscan artifacts, including: the location found, the size, and the sigla on the artifact. Similar artifacts are organized by recognizing similar attributes (i.e.: sigla tags, type of artifact, location found). Users will also be allowed to search for artifacts and their sigla based on these attributes. The users can also search with keywords.

If a user is a researcher in the field of Etruscan sigla, the user can register to have an account created in the system. The user can register through the Web site; however, the user's credentials must be validated by a staff member of the IESP before the account will be active. Upon registration, the user enters personal information, such as his or her name, research institution, and e-mail address. The system will first verify that the e-mail address is correct by sending the user a confirmation e-mail. After the e-mail has been verified, the IESP staff will validate the user's credentials. The details of the validation policies will be decided later at a later date.

Once a user has an active account, the user can login to the Web site with the username and password supplied upon registration. IESP staff members will also be able to login in the same manner.

Once logged in, validated users (researchers and staff members with active accounts) can add comments to artifacts. Researchers can also edit or delete their own comments, while staff members can edit or delete comments made by any user.

Validated users can also upload new artifacts to the Web site, specifying attributes that describe the artifacts, its sigla and images of it. A validated user who has uploaded a artifact can modify its attributes. However, to preserve history of changes for citation purposes, a modification will create a new version of the artifact. All old versions are still viewable by users.

Validated users may also create personal collections of artifacts. A personal collection will be a logical group of artifacts related to a particular study done by a researcher.

Staff members can add new sigla tags to the system's database. A sigla tag is a string that describes a particular type of siglum.

Staff members can also perform various tasks using the system. They can manager user accounts, by approving or revoking a researchers privileges, or edit a researcher's profile. Staff members can also add news articles to the front page.

All aspects of the system are easy enough to use for non-technical people with moderate experience using a Web browser. Users can specify a language to allow for translation of certain search keywords. The scope of the multilingual features will be decided on later.

The technical staff will make the system robust. Backup policies of data will be implemented and data corruption will be prevented by proper database design.

**D. User Characteristics**

The three main groups of users are the general public, validated researchers, and IESP staff members.

The general public can search and browse the collection of artifacts. The general public do not log into the Web site. These users are assumed to have very little technical training. Their educational background and location is unknown.

Validated researchers are those who have registered and whose credentials have been validated by IESP staff members. Researchers are also assumed to have little technical training. Their education is assumed to be on the college-level, anywhere between undergraduate and post-doctoral. Researchers will be able to log into the Web site after validation.

IESP staff members are divided into two groups – IESP researchers and IESP technical staff. IESP researchers are assumed to have the same level of training as validated researchers, while IESP technical staff members are assumed to have much more technical knowledge.

**D. General Constraints**

The system provides web access for all user functions, with the exception that IESP technical staff may have to access certain parts of the system through other means for hardware or software maintenance.

The user interface will be intuitive enough for the untrained public to navigate.

The system will be robust to allow for persistence storage of researcher information and artifact data. The system will be reliable enough to allow for use by the general public and researchers at their convenience.

## **E. Assumptions**

The system is assumed to run on free open-source configuration – possibly a LAMP (Linux-Apache-MySQL-PHP/PERL) configuration.

## **III. Functional Requirements**

3.1. The system shall use a Home page which shall be the entry point for all users. The home page shall be aesthetic and simple to navigate.

3.2. The system shall allow users to login and validate themselves as researchers or staff members.

3.2.1. The system shall allow users to register themselves as researchers.

3.2.2. The system shall validate the registering user email by emailing them a randomly generated password.

3.2.3. The system shall allow users to change their password.

3.2.4 The system shall allow users to request their password. The password shall be sent to the email entered during registration.

3.3. The system shall allow researchers to upload artifacts to the database.

3.3.1 The system shall allow staff members to delete an artifact as long as the artifact has not been published.

3.3.2 The system shall allow the owner of the artifact to edit its attributes as long as the artifact has not been published.

3.3.3 The system shall allow the owner of the artifact to delete the artifact as long as the artifact has not been published.

3.3.4 The system shall allow the owner of the artifact to publish the artifact. A published artifact will guarantee the general public that the artifact will no longer be edited or subject to deletion.

3.4 The system shall allow researchers to post comments on any uploaded artifact.

3.4.1 The system shall allow the owner of a comment to edit the comment's content. Upon editing, a copy of the comment shall be created while the original version shall be archived.

3.4.2 The system shall allow users to report inappropriate comments to the staff.

3.4.3 The system shall allow staff members to disable any comment. Upon disabling, the comment is removed from the Artifact's page. The original comment shall still be accessible through the archives.

3.5 The system shall allow the user to search the artifacts in the collection by specifying keywords, by specifying tags, or by entering artifact attributes in an advanced search form.

3.5.1 The system shall display the search results in a orderly manner. The search result page shall contain all the Artifacts matching the searching criteria, represented by a small thumbnail of the Artifact image. There shall also be a minimal description of each Artifact to allow Users to recognize an Artifact without the need of accessing the Artifact's detail page.

3.5.2 The system shall allow users who are not familiar with the terminology, to browse through the Artifacts without needing to specify any search criteria.

3.6 The system shall allow the user to view the artifacts in the collection.

3.6.1 The system shall display the artifacts information and images, in an ordered and complete fashion.

3.6.2 The system shall display the location where the Artifact was found in a rendered sky-view map.

3.6.3 The system shall display other Artifacts that were found near the location of the viewed Artifact.

3.7 The system shall allow researchers to post information about themselves on their profile.

3.7.1 The system shall allow researchers to edit their personal information.

3.7.2 The system shall allow users to view researchers' profiles.

3.8 The system shall allow staff members to create new Sigla tags.

3.9 The system shall allow staff members to manage Users accounts.

3.9.1 The system shall allow staff members to verify registering users.

3.9.2 The system shall allow staff members to edit researchers' profiles

3.9.3 The system shall allow staff members to revoke users privileges.

3.10 The system shall allow staff members to publish news articles.

3.10.1 The system shall allow users to view published news articles.

3.11 The system shall allow researchers to create a personal collection of artifacts.

3.11.1 The system shall allow a researcher to add or remove artifacts from the researcher's personal collection.

3.12 The system shall provide a help feature that shall explain to Users how to Navigate the site, along with documentation on other functionalities of the site.

3.13 The system shall provide an about page. This page shall display the system's purpose, history and contact information.

#### **IV. Non-functional Requirements**

4.1 The system shall be compatible with the major web browsers (Internet Explorer, Firefox, Opera, Chrome, Safari.)

4.2 The system shall backup its data to prevent information loss as a result of system failures.



4.3 The system shall be flexible enough to allow modifications of Artifact tags without corrupting existing Artifacts in the database.

4.4 The system shall be simple enough to be used without specialized training other than the knowledge of using a web browser.

4.5 The system shall be internationalized in the sense that users may specify a language upon registration. Certain keywords in the website shall be translated to the chosen language.

4.5.1 The default language shall be a universal language since the System will be used worldwide.

4.6 The system shall use a consistent style format across the web-site.

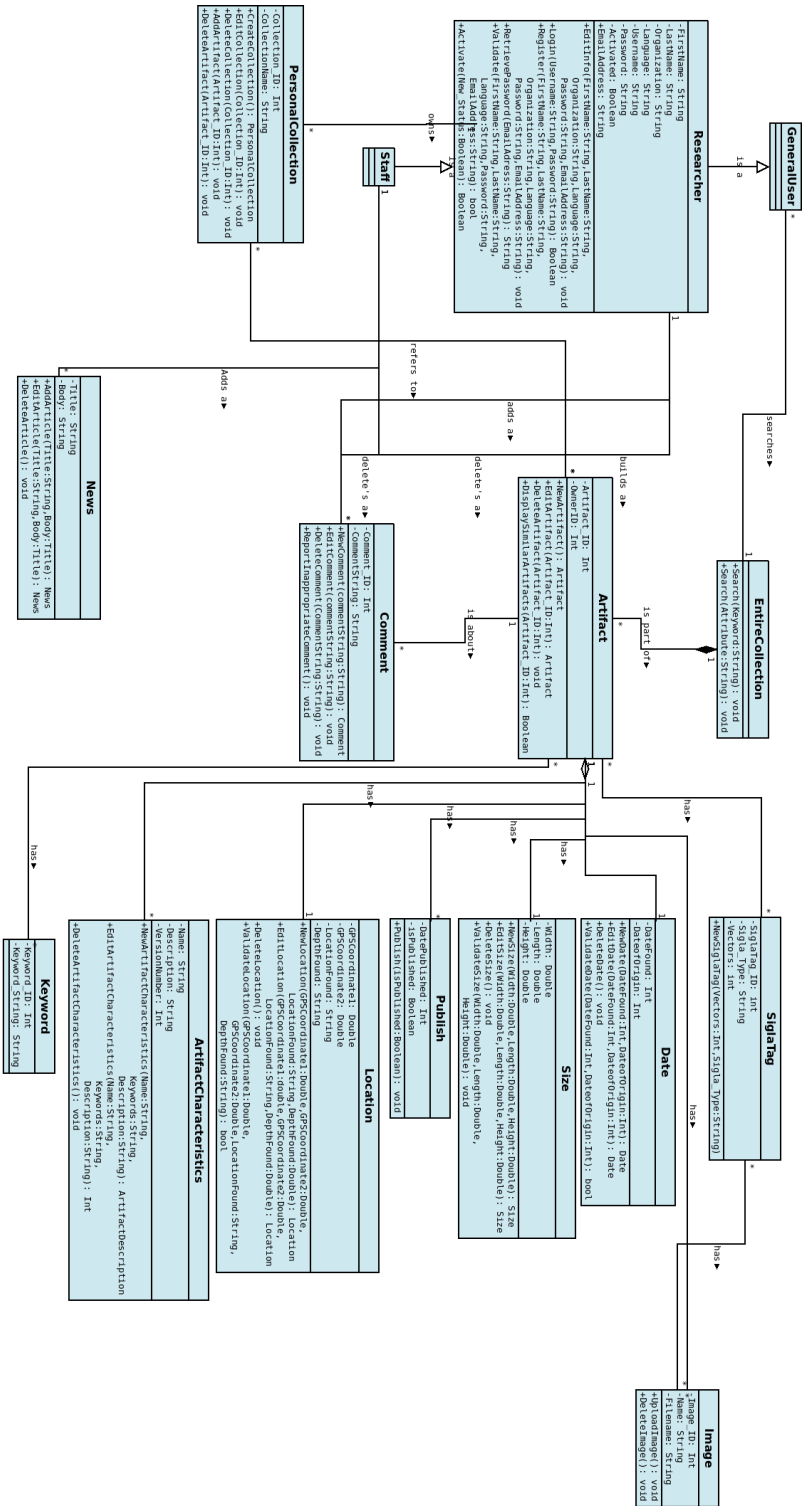
4.7 The system shall use a standard image format that keeps file size to a minimum while prioritizing the quality of the image.

4.8 The system shall use an universal measurement system.

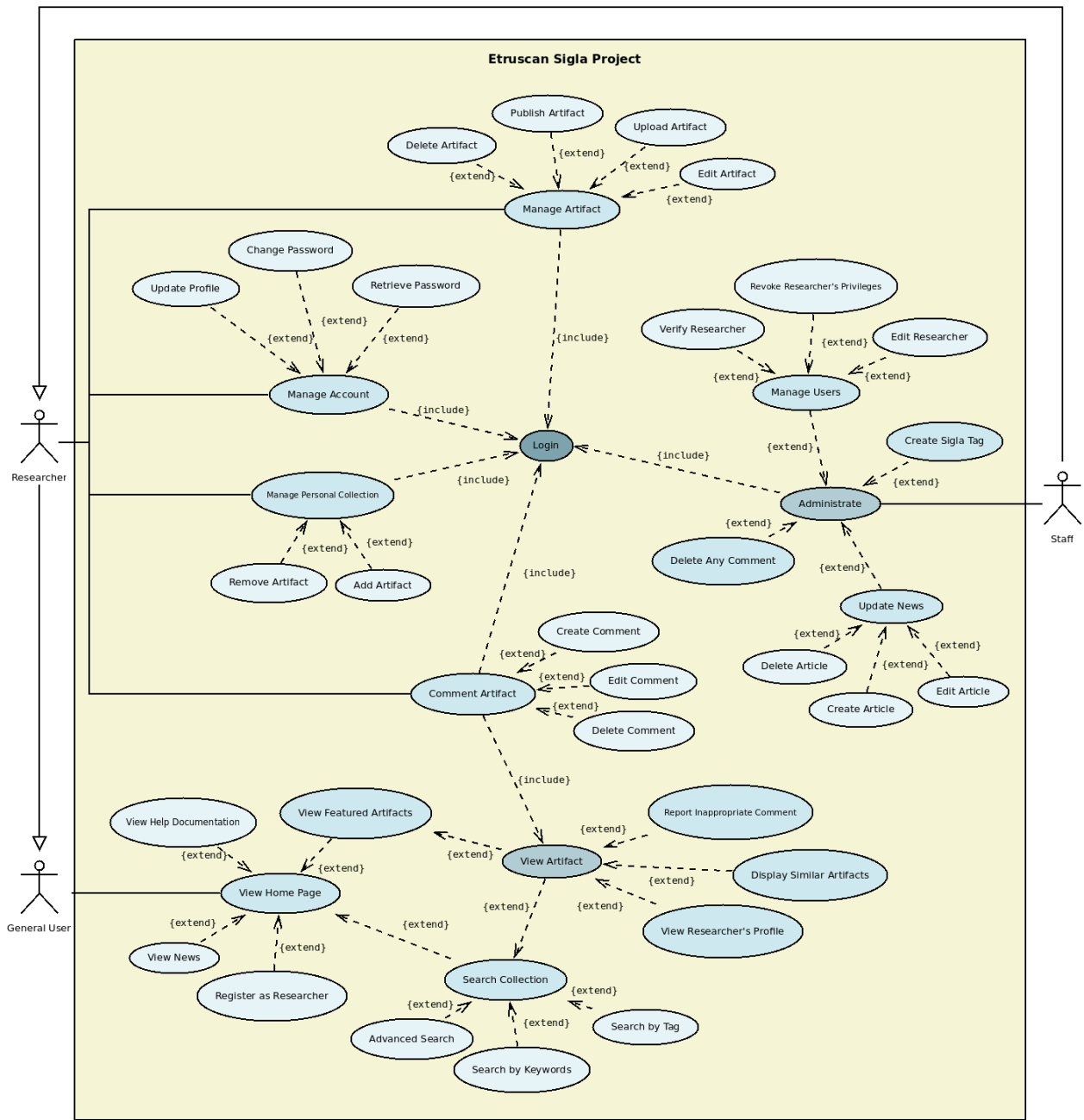
4.9 The system shall be build using Open Source alternatives. It shall not be required to purchase any software, tool or component licenses.

4.10 The system shall support Unicode character encoding with the purpose of allowing most languages to be represented.

## **V. Class Diagram**



## VI Use Case Diagram



Team Blue Hat

## SRS Appendix A

### Actor Description

<b>Name</b>	Researcher
<b>Alternate Names</b>	Scholar

#### Input Data

<b>Name of Use Case</b>	<b>Inputs to the System</b>
Comment Artifact	Comment
Manage Artifact	None. This is an expandable section that includes 3 subsections (Edit Artifact, Delete Artifact, Upload Artifact).
Update Profile	First Name, Last Name, Organization, Language, Password

#### Output Data

<b>Name of Use Case</b>	<b>Outputs from the System</b>
Comment Artifact	All comments for the selected artifact.
Manage Artifact	None
Update Profile	All profile attribute fields and their value.

#### Description

<p>A researcher is a general user who has successfully completed the researcher registration process.</p>
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## Comments

Researchers have a Username and may create their own password. They must use these to access the researcher use cases. A researchers Username is immutable, while all other attributes may be changed.

<b>Name</b>	General User
<b>Alternate Names</b>	General Public

## Input Data

<b>Name of Use Case</b>	<b>Inputs to the System</b>
View Collection	A search request (either by attribute, or tag).
Report Inappropriate Comment	Comment_ID
Register as Researcher	Username, Password, First Name, Last Name, Location, Organization, Language

## Output Data

<b>Name of Use Case</b>	<b>Outputs from the System</b>
View Collection	All artifacts relevant to the search request.
Report Inappropriate Comment	Verification message.
Register as Researcher	Registration form.

## Description

Everyone is a general user. General users do not have to register or login to access general user use cases.

They may view the collection and artifact comments but cannot make comments of their own or upload new sigla.

### **Comments**

A general user may become a researcher if they successfully complete the researcher registration process.

<b>Name</b>	Staff
<b>Alternate Names</b>	

### Input Data

<b>Name of Use Case</b>	<b>Inputs to the System</b>
Administrate	None. This is an expandable section that includes 4 subsections (Manage Users, Update News, Delete Any Comment, Create Sigla Tag).

### Output Data

<b>Name of Use Case</b>	<b>Outputs from the System</b>
Administrate	None

### Description

Staff members are individuals who work on the IESP, as verified by Dr Nancy de Grummond. A staff member is also a researcher. Staff members have a username and password, and must login to access the staff use cases.

### Comments

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### Attribute Description

<b>Name</b>	UserName
<b>Class Name</b>	Login
<b>Alternate Name(s)</b>	None
<b>Type</b>	String
<b>Length</b>	Specify by user
<b>Output Format</b>	"XXXXXXX..." where X is an string
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	"XXXXXXX..." where X is an string
<b>Source (where value comes from)</b>	Login
<b>Derivation Formula</b>	None
<b>Description</b>	The user can supply his name as part of the login process
<b>Comments</b>	created by user during the registration process

<b>Name</b>	Password
<b>Class Name</b>	Login
<b>Alternate Name(s)</b>	None
<b>Type</b>	String
<b>Length</b>	Specify by user



<b>Output Format</b>	“XXXXXXX...” where X is an string
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	“XXXXXXX...” where X is an string
<b>Source (where value comes from)</b>	Login
<b>Derivation Formula</b>	None
<b>Description</b>	The user can supply his password as part of the login process
<b>Comments</b>	created by user during the registration process

<b>Name</b>	FristName
<b>Class Name</b>	Researcher
<b>Alternate Name(s)</b>	None
<b>Type</b>	String
<b>Length</b>	Specify by researcher
<b>Output Format</b>	“XXXXXXX...” where X is an string
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	“XXXXXXX...” where X is an string
<b>Source (where value comes from)</b>	Researcher
<b>Derivation Formula</b>	None
<b>Description</b>	Researcher supplies his Firstname.
<b>Comments</b>	None

<b>Name</b>	LastName
<b>Class Name</b>	Researcher
<b>Alternate Name(s)</b>	None
<b>Type</b>	String
<b>Length</b>	Specify by researcher
<b>Output Format</b>	"XXXXXXX..." where X is an string
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	"XXXXXXX..." where X is an string
<b>Source (where value comes from)</b>	Researcher
<b>Derivation Formula</b>	None
<b>Description</b>	Researcher supplies his LastName.
<b>Comments</b>	None

<b>Name</b>	Organization
<b>Class Name</b>	Researcher
<b>Alternate Name(s)</b>	None
<b>Type</b>	String
<b>Length</b>	Specify by reserarcher
<b>Output Format</b>	"XXXXXXX..." where X is an string

<b>Default Value</b>	Blank
<b>Acceptable Values</b>	"XXXXXXX..." where X is an string or blank
<b>Source (where value comes from)</b>	Researcher
<b>Derivation Formula</b>	None
<b>Description</b>	Researcher supply the information of organization that he belongs to.
<b>Comments</b>	None

<b>Name</b>	Categories
<b>Class Name</b>	Categories
<b>Alternate Name(s)</b>	None
<b>Type</b>	String
<b>Length</b>	Specify by staff
<b>Output Format</b>	"XXXXXXX..." where X is an string
<b>Default Value</b>	General category
<b>Acceptable Values</b>	"XXXXXXX..." where X is an string
<b>Source (where value comes from)</b>	Sigla Database
<b>Derivation Formula</b>	None
<b>Description</b>	Staff groups siglas into different categories.
<b>Comments</b>	Siglas are first in general category until staff group them into specified categories

<b>Name</b>	SiglaArray
<b>Class Name</b>	Collection
<b>Alternate Name(s)</b>	None
<b>Type</b>	Sigla
<b>Length</b>	Specify by staff
<b>Output Format</b>	Array format
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	Data in Array format
<b>Source (where value comes from)</b>	Collection
<b>Derivation Formula</b>	None
<b>Description</b>	SiglaArray contain data of different Siglas in sigla data type
<b>Comments</b>	None

<b>Name</b>	Name
<b>Class Name</b>	Sigla
<b>Alternate Name(s)</b>	None

<b>Type</b>	String
<b>Length</b>	Specify by researcher
<b>Output Format</b>	"XXXXXXX..." where X is an string
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	"XXXXXXX..." where X is an string
<b>Source (where value comes from)</b>	Sigla
<b>Derivation Formula</b>	None
<b>Description</b>	This attribute contain the name of sigla
<b>Comments</b>	None

<b>Name</b>	Location
<b>Class Name</b>	Sigla
<b>Alternate Name(s)</b>	Excavation
<b>Type</b>	String
<b>Length</b>	Specify by researcher
<b>Output Format</b>	"XXXXXXX..." where X is an string
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	"XXXXXXX..." where X is an string or blank

<b>Source (where value comes from)</b>	Sigla
<b>Derivation Formula</b>	None
<b>Description</b>	This attribute contain the excavation of sigla
<b>Comments</b>	None

<b>Name</b>	SiglaCategory
<b>Class Name</b>	Sigla
<b>Alternate Name(s)</b>	None
<b>Type</b>	String
<b>Length</b>	Specify by researcher
<b>Output Format</b>	"XXXXXXX..." where X is an string
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	"XXXXXXX..." where X is an string
<b>Source (where value comes from)</b>	Sigla
<b>Derivation Formula</b>	None
<b>Description</b>	This attribute contain the category the sigla belong to
<b>Comments</b>	None

<b>Name</b>	DateFound
<b>Class Name</b>	Sigla
<b>Alternate Name(s)</b>	None
<b>Type</b>	Int
<b>Length</b>	10
<b>Output Format</b>	NN/NN/NNNN where N is an integer
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	NN/NN/NNNN where N is an integer or blank
<b>Source (where value comes from)</b>	Sigla
<b>Derivation Formula</b>	None
<b>Description</b>	This attribute contain the date when the Sigla is excavated
<b>Comments</b>	None

<b>Name</b>	AddComment
<b>Class Name</b>	Sigla
<b>Alternate Name(s)</b>	None
<b>Type</b>	Comment
<b>Length</b>	Specify by researcher
<b>Output Format</b>	"XXXXXXX..." where X is an string

<b>Default Value</b>	Blank
<b>Acceptable Values</b>	“XXXXXXX...” where X is an string or blank
<b>Source (where value comes from)</b>	Sigla
<b>Derivation Formula</b>	None
<b>Description</b>	Researcher add comment to the specified sigla as part of the create sigla process

<b>Name</b>	Comment
<b>Class Name</b>	CommentSigla
<b>Alternate Name(s)</b>	None
<b>Type</b>	String
<b>Length</b>	Specify by researcher
<b>Output Format</b>	“XXXXXXX...” where X is an string
<b>Default Value</b>	Blank
<b>Acceptable Values</b>	“XXXXXXX...” where X is an string or blank
<b>Source (where value comes from)</b>	CommentSigla
<b>Derivation Formula</b>	None
<b>Description</b>	Researcher add the comment to the specified sigla
<b>Comments</b>	None

### Class Description



<b>Name</b>	Login
<b>Description</b>	An instance of login class is a user that has login to the system.

### Attributes

<b>Name of Attribute</b>	<b>Data Type</b>	<b>Description</b>
UserName	String	User name is a unique identification for user to login the system
Password	String	Supplied by user.

### Methods

<b>Method Signature</b>	<b>Description</b>
Login	This public method is a user login to the system
Register	This public method is a user register as a new member

### Relationships

<b>Class Name</b>	<b>Type of Relationship</b>	<b>Comments</b>
General User	Association	The login class contain the login information of user

<b>Name</b>	GeneralUser
<b>Description</b>	An instance of GeneralUser class defines attributes and methods associate with general user.

### Attributes

Name of Attribute	Data Type	Description

### Methods

Method Signature	Description

### Relationships

Class Name	Type of Relationship	Comments
Researcher	Generalization	Researcher is a kind of user
Login	Association	The login class contain the login information of user

Collection	Association	General user can search the collection

<b>Name</b>	Researcher
<b>Description</b>	An instance of Researcher class defines attributes and methods associate with researcher.

### Attributes

Name of Attribute	Data Type	Description
FirstName	String	
LastName	String	
Organization	String	This attribute define the organization which the researcher belong to

### Methods

Method Signature	Description
EditInfo	This public method is Researcher can modify the content of their information

### Relationships

Class Name	Type of Relationship	Comments
General User	Generalization	
CommentSigla	Association	
Staff	Generalization	
Sigla	Association	

<b>Name</b>	Staff
<b>Description</b>	An instance of User staff class defines attributes and methods associate with staff.

### Attributes

Name of Attribute	Data Type	Description

### Methods

Method Signature	Description

## Relationships

Class Name	Type of Relationship	Comments
Researcher	Generalization	
Sigla Database	Association	Staff can create new sigla category and group the similar siglas.

<b>Name</b>	Sigla Database
<b>Description</b>	An instance of Sigla Database class define a database have different categories of Sigla

## Attributes

Name of Attribute	Data Type	Description

## Methods

<b>Method Signature</b>	<b>Description</b>
GroupSimilarSiglas	
CreateSiglaCategory	This public method is staff can create sigla category


### Relationships

Class Name	Type of Relationship	Comments
Collection	Association	Sigla collection is organized by sigla database.
Catagories	Aggregation	Categories is part of Sigla Database
staff	Association	Staff can create new sigla category and group the similar siglas.

<b>Name</b>	Categories
<b>Description</b>	An instance of Categories class define a categories information of Sigla Database

### Attributes

Name of Attribute	Data Type	Description
Categories	String	Every sigla belong to specified category.

### Methods

Method Signature	Description

### Relationships

Class Name	Type of Relationship	Comments
Sigla Database	Aggregation	Categories is part of Sigla Database

<b>Name</b>	Collection
<b>Description</b>	An instance of collection class is user search collection

### Attributes

Name of Attribute	Data Type	Description
SiglaArray	Sigla	This array contain the collection of sigla

## Methods

Method Signature	Description
ReportInappropriateComment	
Search	This public method is user use the method to search specified sigla
NewSigla	This public method is Researcher can create new sigla.

## Relationships

Class Name	Type of Relationship	Comments
Siala database	Association	
Sigla	Aggregation	
GeneralUser	Association	

<b>Name</b>	Sigla
<b>Description</b>	An instance of collection class define attributes and methods associate with sigla

## Attributes

Name of Attribute	Data Type	Description
Name	String	The Name of sigla
Location	String	Location of excavation



DateFound	int	
SiglaCatagory	String	
AddComment	Comment	

### Methods

Method Signature	Description
EditSigla	This public method is Researcher can edit new sigla.
DeleteSigla	This public method is Researcher can delete new sigla.

### Relationships

Class Name	Type of Relationship	Comments
Collection	Aggregation	Sigla class is a part of collection class
Researcher	Association	Researcher is the only authorized user can build a new sigla
CommentSigla	Association	

<b>Name</b>	CommentSigla
<b>Description</b>	An instance of CommentSigla class

### Attributes

Name of Attribute	Data Type	Description
Comment	String	Supply by researcher

### Methods

Method Signature	Description
EditComment	Researcher can modify comment
DeleteComment	Staff can delete comment

### Relationships

Class Name	Type of Relationship	Comments
Researcher	Association	
Sigla	Association	

### Use Case Descriptions

Name	Upload Artifact
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<b>ID</b>	SCR-001
<b>Requirement Number</b>	3.2
<b>Description</b>	This use case allows a researcher to upload an artifact.
<b>Primary Actor</b>	Researcher
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	Researcher has an account.
<b>Post-condition</b>	Researcher has uploaded an artifact. Artifact has been added to the collection.
<b>Trigger</b>	Researcher selects the 'Upload Artifact' option.

### Normal Scenario

<b>1.</b>	Researcher <u>Login</u> to the system.
<b>2.</b>	Researcher selects <u>Manage Artifacts</u> .
<b>3.</b>	Researcher selects <u>Upload Artifact</u> .
<b>4.</b>	Researcher views 'Upload Artifact' form.
<b>5.</b>	Researcher completes 'Upload Artifact' form.
<b>6.</b>	System validates 'Upload Artifact' form is completed.
<b>7.</b>	Artifact is added to IESP collection.

### Extensions

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<b>Name</b>	Update News
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<b>ID</b>	SCR-007
<b>Requirement Number</b>	3.7
<b>Description</b>	This use case allows a staff member to publish news articles.
<b>Primary Actor</b>	Staff
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	Staff member has an account.
<b>Post-condition</b>	Staff member has published a news article.  'News & Updates' section of website is modified.
<b>Trigger</b>	Staff member selects the 'Upload News' option.

#### Normal Scenario

1.	Staff member <u>Login</u> to the system.
2.	Staff member selects <u>Upload News</u> .
3.	Staff member views 'Upload News' form.
4.	Staff member completes 'Upload News' form.
5.	System validates 'Upload News' form is completed.
6.	System uploads news.

#### Extensions

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<b>Name</b>	Create Comment
-------------	----------------

<b>ID</b>	SCR-002
<b>Requirement Number</b>	2.1
<b>Description</b>	This use case allows a researcher to create a comment
<b>Primary Actor</b>	Researcher
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	Researcher as an account
<b>Post-condition</b>	The site is updated
<b>Trigger</b>	The researcher clicks the create comment option on the webpage

### Normal Scenario

1.	Researcher views an Artifact
2.	Researcher clicks on a create comment link.
3.	Researcher Logins into the system.
4.	System Validates Researcher
5.	Researcher types in the comment
6.	Researcher clicks submit to the typed in comment
7.	System places the comment onto the artifact page

### Extensions

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<b>Name</b>	Edit Comment
<b>ID</b>	SCR-002

<b>Requirement Number</b>	2.2
<b>Description</b>	This use case allows a researcher to edit a comment
<b>Primary Actor</b>	Researcher
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	Researcher as an account
<b>Post-condition</b>	The site is updated
<b>Trigger</b>	The researcher clicks the edit comment option on the webpage

### Normal Scenario

<b>1.</b>	Researcher views an Artifact
<b>2.</b>	Researcher clicks on an edit comment link.
<b>3.</b>	Researcher Login's to the system.
<b>4</b>	System Validates Researcher
<b>5.</b>	Researcher edit's the comment
<b>6.</b>	Researcher clicks submit to the typed in comment
<b>7.</b>	System places the edited comment onto the artifact page

### Extensions

<b>2.1</b>	Comment field already contains data: 1.1) Researcher then edits the data in the field.
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<b>Name</b>	Delete Comment
<b>ID</b>	SCR-002
<b>Requirement Number</b>	2.3

<b>Description</b>	This use case allows a researcher to delete a comment
<b>Primary Actor</b>	Researcher
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	Researcher as an account
<b>Post-condition</b>	The site is updated
<b>Trigger</b>	The researcher clicks the delete comment option on the webpage

### Normal Scenario

<b>1.</b>	Researcher views an Artifact
<b>2.</b>	Researcher clicks on a delete comment link.
<b>3.</b>	Researcher Login into the system.
<b>4</b>	System Validates Researcher
<b>5.</b>	System deletes comment

### Extensions

<b>2.1</b>	Comment field already contains data:  1.1) Researcher then deletes the data in the field.
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<b>Name</b>	Report Inappropriate Comment
<b>ID</b>	SCR-002
<b>Requirement Number</b>	2.4
<b>Description</b>	This use case allows any individual to report an inappropriate comment
<b>Primary Actor</b>	User

<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	N/A
<b>Post-condition</b>	N/A
<b>Trigger</b>	A user clicks on the report inappropriate comment

### Normal Scenario

<b>1.</b>	A user views an artifact
<b>2.</b>	A user views the comments
<b>3.</b>	A user views an inappropriate comment
<b>4.</b>	A user clicks the report inappropriate comment
<b>5.</b>	The staff are notified

### Extensions

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<b>Name</b>	Delete Artifact
<b>ID</b>	SCR-002
<b>Requirement Number</b>	2.5
<b>Description</b>	This use case allows any individual to report an inappropriate comment
<b>Primary Actor</b>	Researcher
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	Researcher has an account
<b>Post-condition</b>	Researcher has an artifact to delete
<b>Trigger</b>	The Researcher clicks the delete artifact link



### Normal Scenario

1.	Researcher views Artifact
2.	Researcher Logins into the system
3.	Researcher clicks the Delete Artifact button
4.	The system deletes the artifact from the database

### Extensions

3.1	Artifact already contains data:
-----	---------------------------------

<b>Name</b>	Create Sigla Tag
<b>ID</b>	SCR-006
<b>Requirement Number</b>	6.1
<b>Description</b>	This use case allows a staff to create a sigla tag
<b>Primary Actor</b>	Staff
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	Staff has an account
<b>Post-condition</b>	N/A
<b>Trigger</b>	Staff creates a tag

### Normal Scenario

1.	Staff <u>Login</u> to the system.
2	System Validates Researcher

3.	Staff enters the Administrate option
4.	Staff selects <u>Create Sigla Tag</u> .
5.	Staff writes a new Sigla tag.
6.	The system creates a new Sigla tag

### Extensions

--	--

<b>Name</b>	Login
<b>ID</b>	3
<b>Requirement Number</b>	3.1.1
<b>Description</b>	This use case defines how a researcher login to the system
<b>Primary Actor</b>	Researcher
<b>Secondary Actor(s)</b>	Staff
<b>Pre-condition</b>	Researcher has an active account
<b>Post-condition</b>	Researcher has privilege to comment artifact Researcher has privilege to update profile Researcher has privilege to manage artifact
<b>Trigger</b>	Researcher click "login" button

### Normal Scenario

1.	Researcher type the address of the website
2.	Researcher go to the login page

3.	Researcher provide his user name and password
4.	Researcher click "login" button

### Extensions

3.1	Researcher provide wrong name or password

<b>Name</b>	Update Profile
<b>ID</b>	10
<b>Requirement Number</b>	3.1
<b>Description</b>	This use case defines researcher update his/her profile
<b>Primary Actor</b>	Researcher
<b>Secondary Actor(s)</b>	Staff
<b>Pre-condition</b>	Researcher had successfully login or registered
<b>Post-condition</b>	The information on researcher's profile have changed
<b>Trigger</b>	Researcher chose "Update Profile" option

### Normal Scenario

1.	Researcher login or register himself.
2.	Researcher chose "Update Profile" option

3.	Researcher fill the information
4.	Researcher submit his information to system
5	System verify his information
6	Change has applied.

#### Extensions

5.1	Some information the researcher provide has error, thus the system ask the researcher to re-submit the update form.
6.1	Some information the researcher provide are blank, thus the system ask the researcher to re-submit the update form.

<b>Name</b>	Verify Researcher
<b>ID</b>	11
<b>Requirement Number</b>	3.6
<b>Description</b>	This use case defines staff verify Researcher
<b>Primary Actor</b>	Staff
<b>Secondary Actor(s)</b>	Researcher
<b>Pre-condition</b>	Staff chose "manage users" option
<b>Post-condition</b>	Staff have verified whether the user is valid user or not
<b>Trigger</b>	Staff chose "verify Researcher" option

#### Normal Scenario

1.	Staff login himself
----	---------------------

<b>2.</b>	Staff chose "manage users" option
<b>3.</b>	Staff chose "verify Researcher" option
<b>4.</b>	Staff verify the information that the researcher provide to database
<b>5</b>	Staff have verified whether the user is valid user or not

### **Extensions**

<b>5.1</b>	Staff chose "delete Researcher", if the researcher do not pass his verification.

<b>Name</b>	Edit Researcher
<b>ID</b>	12
<b>Requirement Number</b>	3.6
<b>Description</b>	This use case defines staff edit Researcher
<b>Primary Actor</b>	Staff
<b>Secondary Actor(s)</b>	Researcher
<b>Pre-condition</b>	Staff chose "manage users" option
<b>Post-condition</b>	Staff have successfully change parts of Researcher information
<b>Trigger</b>	Staff chose "edit Researcher" option

#### Normal Scenario

<b>1.</b>	Staff login himself
<b>2.</b>	Staff chose "manage users" option
<b>3.</b>	Staff chose "Edit Researcher" option
<b>4.</b>	Staff edits the researcher's information.

#### Extensions

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<b>Name</b>	Delete Researcher
<b>ID</b>	13
<b>Requirement Number</b>	3.6
<b>Description</b>	This use case defines staff delete Researcher
<b>Primary Actor</b>	Staff
<b>Secondary Actor(s)</b>	Researcher
<b>Pre-condition</b>	Staff chose "manage users" option
<b>Post-condition</b>	Staff have successfully delete researcher
<b>Trigger</b>	Staff chose "delete Researcher" option

#### Normal Scenario

<b>1.</b>	Staff login himself
<b>2.</b>	Staff chose "manage users" option
<b>3.</b>	Staff chose "delete Researcher" option
<b>4.</b>	Staff clicks "delete researcher button.
<b>5</b>	The deletion have applied.

#### Extensions


<b>Name</b>	Edit Artifact
<b>ID</b>	5
<b>Requirement Number</b>	3.2.2
<b>Description</b>	This use case defines how researchers may modify an Artifact attributes.
<b>Primary Actor</b>	Researcher
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	Researcher is logged in.
<b>Post-condition</b>	Artifact attributes are updated. A confirmation message is displayed.
<b>Trigger</b>	Researcher selects the 'Edit' button.

#### Normal Scenario

<b>1.</b>	Researcher fills desired attribute fields.
<b>2.</b>	Researcher selects the 'Submit' button.
<b>3.</b>	System validates input data.
<b>4.</b>	System displays a confirmation message.



### Extensions

<b>1.1</b>	Attribute field already contains data: 1.1) Researcher first deletes the data in the field.
<b>3.1</b>	Invalid data is input: 3.1) System displays an error message. 3.2) Flow returns to point (1) of the scenario.

<b>Name</b>	Search by Attribute
<b>ID</b>	6
<b>Requirement Number</b>	3.4.1
<b>Description</b>	This use case defines how users will be able to browse Artifacts based on an attribute-based criterion.
<b>Primary Actor</b>	General User
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	None
<b>Post-condition</b>	Matching Artifacts are displayed to the User.
<b>Trigger</b>	User selects the 'Search' button.

### Normal Scenario

<b>1.</b>	User fills desired attribute fields.
<b>2.</b>	User selects the 'Submit' button.
<b>3.</b>	System displays search results.

### Extensions

<b>3.1</b>	No results are found: 3.1) System displays an error message.
<b>Name</b>	Search by Tag
<b>ID</b>	7
<b>Requirement Number</b>	3.4.1
<b>Description</b>	This use case defines how users will be able to browse Artifacts based on a tag-based criterion.
<b>Primary Actor</b>	General User
<b>Secondary Actor(s)</b>	
<b>Pre-condition</b>	User is viewing the Tag Cloud (located in the Home Page and on Artifacts pages)
<b>Post-condition</b>	Matching Artifacts are displayed to the User.
<b>Trigger</b>	User selects any of the tags displayed in the Tag Cloud he is currently viewing.

### Normal Scenario

<b>3.</b>	System displays search results.
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### Extensions

<b>3.1</b>	No results are found. This occurs when the selected tag is unique to the viewed Artifact. 3.1) System displays an error message.
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<b>Name</b>	Administrate
<b>ID</b>	SCR-012
<b>Requirement Number</b>	3.6, 3.7

<b>Description</b>	This is the portal for administration tasks.
<b>Primary Actor</b>	Staff
<b>Secondary Actor(s)</b>	n/a
<b>Pre-condition</b>	A user is logged in and verified as a Staff user.
<b>Post-condition</b>	n/a
<b>Trigger</b>	Either a staff member logs in and is immediately brought to this page, or a staff member is already logged in and clicks a link to be brought to the page.

### Normal Scenario

<b>1.</b>	The authenticated Staff user arrives at the Administration Root page.
<b>2.</b>	The user clicks on an Administration Task link.

### Extensions

<b>2.1.</b>	Perform Manager Users use case.
<b>2.2</b>	Perform Update News use case.
<b>2.3</b>	Perform Create Siglum Tag use case.

<b>Name</b>	Register as Researcher
<b>ID</b>	SCR-004
<b>Requirement Number</b>	3.1.1
<b>Description</b>	This allows a general user to apply for a researcher account on the site.
<b>Primary Actor</b>	General User
<b>Secondary Actor(s)</b>	

<b>Pre-condition</b>	A user is not currently logged in on the site.
<b>Post-condition</b>	The user has a new pending account in the database upon successful submission.
<b>Trigger</b>	The user clicks the link to register for a new account.

### Normal Scenario

<b>1.</b>	General User arrives at the Registration page.
<b>2.</b>	General User enters Researcher Information.
<b>2.1</b>	General User enters first name into corresponding text box.
<b>2.2</b>	General User enters last name into corresponding text box.
<b>2.3</b>	General User enters organization name into corresponding text box.
<b>2.4</b>	General User enters e-mail address into corresponding text box.
<b>2.5</b>	General User picks language from drop-down list box.
<b>2.6</b>	General User enters desired username into corresponding text box.
<b>2.7</b>	General User enters desired password into corresponding text box with input hidden.
<b>2.8</b>	General User repeats desired password into corresponding text box with input hidden.
<b>3.</b>	General User hits submit button.
<b>4.</b>	System validates Researcher Information.
<b>5.</b>	System directs user to Display Registration Confirmation page.

### Extensions

<b>4.1</b>	If Researcher Information is invalid
<b>4.1.1</b>	Registration page is reloaded with Researcher Information fields (other than password) populated with the values that were input.
<b>4.1.2</b>	System flags invalid values.

<b>4.1.3</b>	General User fixes invalid values.
<b>4.1.4</b>	Return to step 3.

## Appendix B

### RAW Use Case Point Analysis

#### Actor Points

<b>Actor Name</b>	<b>Actor Type</b>	<b>Actor Points</b>
Staff	Complex	3
Researcher	Complex	3
General User	Complex	3
	<b>TOTAL</b>	<b>9</b>

#### Use Case Points

<b>Use Case Name</b>	<b>Number of Transactions</b>	<b>Use Case Type</b>	<b>Use Case Points</b>
Manage Artifact	4	Average	10
Manage Account	3	Simple	5

Manage Personal Collection	2	Simple	5
Manage Users	3	Simple	5
Update News	3	Simple	5
Create Sigla Tag	1	Simple	5
Delete Any Comment	1	Simple	5
Comment Artifact	3	Simple	5
View Artifact	5	Average	10
View Home Page	4	Average	10
Search Collection	3	Simple	5
		<b>Total Points:</b>	70

**Etruscan Sigla Project**  
**ADJUSTED Use Case Point Analysis**

**TECHNICAL COMPLEXITY FACTORS**

Technical Factor Number	Description	Weight	Assigned Value	Weighted Value	Notes
T1	Distributed system	2.0	0	0	One machine.
T2	Response time, throughput or performance objectives	1.0	2	2	Can't leave user hanging for too long.
T3	End User online efficiency	1.0	1	1	User doesn't need to be efficient.
T4	Complex internal processing	1.0	3	3	Database operations to find similar siglas.
T5	Reusability of Code	1.0	2	2	Just enough to be expandable.
T6	Easy to install	0.5	0	0	Will only be installed once.
T7	Ease of use	0.5	5	2.5	Should be extremely easy.
T8	Portability	2.0	0	0	Only installing it in one machine.
T9	Ease of Change	1.0	4	4	Needs to be expandable.
T10	Concurrency	1.0	5	5	Needs to process many queries.
T11	Special security objectives	1.0	1	1	Just basic User login security.
T12	Direct access for third parties	1.0	0	0	Will not require a third-party.

T13	Special user training required	1.0	2	2	Administrators need training.
			<b>TFactor</b>	<b>22.5</b>	
			<b>Technical Complexity Factor (TCF)</b>	<b>0.83</b>	



## ENVIRONMENTAL FACTORS

Environmental Factor Number	Description	Weight	Assigned Value	Weighted Value	Notes
E1	Familiarity with system development process being used	1.5	N/A		Cannot produce value at this state.
E2	Application experience	0.5	N/A		
E3	Object-Oriented experience	1.0	N/A		
E4	Lead analyst capability	0.5	N/A		
E5	Motivation	1.0	N/A		
E6	Requirements Stability	2.0	N/A		
E7	Part time staff	-1.0	N/A		
E8	Difficulty of the programming language	-1.0	N/A		
			<b>EFactor</b>	<b>N/A</b>	
	$1.4 + 0.03 * \text{EFactor}$		<b>Environmental Factor (EF)</b>	<b>0.635</b>	Using the book's results to produce a default total.

**SUMMARY – Estimated Work**

<b>Factor</b>	<b>Value</b>
Total Actor Points (Raw)	9
Total Use Case Points (Raw)	70
Total Unadjusted Use Case plus Actor Points	79
Technical Complexity Factor	0.83
Environmental Complexity Factor	0.64
Adjusted Use Case Points (Total Unadjusted Use Case plus Actor Points * Technical Complexity Factor * Environmental Complexity Factor )	41.39
Hours per Adjusted Use Case Points (constant)	20
<b>TOTAL Estimation of Work in hours</b> (Adjusted Use Case Points * Hours per Adjusted Use Case Points)	827.72

**Appendix E****Screen and Report Outputs List**

<b>Screen/Report ID</b>	<b>Type (I, O, I/O)</b>	<b>Screen/Report Name</b>	<b>Use Cases that Use this Screen/Report</b>
<b>C.</b>	I	Researchers: Upload Artifact Form	Upload Artifact
<b>D.</b>	O	Display Artifact Upload Success/Failure Message	Upload Artifact
<b>E.</b>	I/O	View Artifact: Attributes & Comments	Create Comment Edit Comment Delete Comment Report Inappropriate

			Comment Delete Artifact Publish Artifact Add Artifact (to Collection)
<b>F.</b>	I	Researcher: Login Form	Login
<b>G.</b>	I	General User: Registration Form	Register as Researcher
<b>H.</b>	O	Display Registration Confirmation	Register as Researcher
<b>I.</b>	I/O	Edit Artifact: Attributes	Edit Artifact
<b>J.</b>	I/O	Administration: Create a new Artifact Tag	Create Artifact Tag
<b>K.</b>	I/O	Administration: Update Home Page News	Update News
<b>L.</b>	I	View Artifact: Search Form	Advanced Search
<b>M.</b>	O	View Artifact: Search Results	Advanced Search Search by Attribute Search by Tag
<b>N.</b>	I/O	Researcher: Update Profile Form	Update Profile Change Password
<b>O.</b>	I/O	Administration: Manage Users	Verify Researcher Edit Researcher Revoke Researcher Privileges
<b>P.</b>	O	Administration: Home Page	Update News Manage Users Create Siglum Tag
<b>Q.</b>	O	General User: Home Page	View Collection View News View Help Documentation Search by Tag

			Search by Keywords Login Register as Researcher
<b>R.</b>	O	Edit Artifact: Success/Failure Message	Edit Artifact
<b>S.</b>	O	Researcher: Manage Account	Update Profile Change Password Retrieve Password
<b>T.</b>	I/O	Researcher: Retrieve Password Screen	Retrieve Password
<b>U.</b>	O	Researcher: Retrieve Password Confirmation Screen	Retrieve Password
<b>V.</b>	O	Researcher: Manage Personal Collection	Remove Artifact (from Collection)
<b>W.</b>	O	General User: Help Pages	View Help Documentation
<b>X.</b>	I/O	Administration: Revoke Researcher Privileges Confirmation	Revoke Researcher Privileges
<b>Y.</b>	I/O	View Artifact: Create Comment	Create Comment
<b>Z.</b>	I/O	View Artifact: Edit Comment	Edit Comment
<b>AA.</b>	O	View Artifact: Report Inappropriate Comment	Report Inappropriate Comment
<b>BB.</b>	O	View Artifact: Delete Artifact	Delete Artifact
<b>CC.</b>	O	View Artifact: Delete Artifact confirmation	Delete Artifact
<b>SCR-28</b>	O	View Artifact: Publish Artifact confirmation	Publish Artifact
<b>SCR-29</b>	I/O	View Artifact: Publish Artifact	Publish Artifact
<b>SCR-30</b>	O	Researcher: confirmation message	Verify Researcher Edit Researcher
<b>SCR-31</b>	O	View Artifact: Delete Comment	Delete Comment

<b>SCR-32</b>	I/O	Administration: Edit Researcher	Edit Researcher
<b>SCR-33</b>	O	Researcher: Manage Artifact	Delete Artifact Publish Artifact Upload Artifact Edit Artifact
<b>SCR-34</b>	O	Researcher: Home Page	Manage Account Manage Collection Manage Artifact
<b>SCR-35</b>	O	Researcher: Update Profile Confirmation Message	Update Profile
<b>SCR-36</b>	O	Administration: Verify Researcher	Verify Researcher

## Other Documents

### Functional Test Cases

**Use Case Name:** Create Comment

**Developer Name:** Adil Arif

**Use Case Number:** 2.1

#### Use Case

Step #	Function Name	Test Criteria	Test Results	Outputs	Completed
2	Researcher clicks on a create comment link.	Researcher clicks on create comment link	Go to Step 3	None	
3	Researcher Logins	System verifies	Go to Use Case Step	None	

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	into the system.	Login Credentials	5		
3		Login Credentials are incorrect	Displays invalid Login message	Error message	
6	Researcher clicks submit to the typed in comment	System verifies that there is some string to submit	Go to Use Case Step 7	None	
6		There is no string to submit	Display invalid text submission	Error Message	
7		User selected submit	System places string into the comment database	None	

**Use Case Name:** Edit Comment

**Developer Name:** Adil Arif

**Use Case Number:** 2.2

**Use Case**

<b>Step #</b>	<b>Function Name</b>	<b>Test Criteria</b>	<b>Test Results</b>	<b>Outputs</b>	<b>Completed</b>
2	Researcher clicks on a create comment link.	Researcher clicks on create comment link	Go to Step 3	None	
3	Researcher Logins into the system.	System verifies Login Credentials	Go to Use Case Step 5	None	
3		Login Credentials are incorrect	Displays invalid Login message	Error message	
6	Researcher clicks submit to the typed in comment	System verifies that there is some string to submit	Go to Use Case Step 7	None	

6		There is no string to submit	Reverts to the original string	None	
7		User selects submit	System edits the string on the comment database	None	

**Use Case Name:** Delete Comment

**Developer Name:** Adil Arif

**Use Case Number:** 2.3

**Use Case**

<b>Step #</b>	<b>Function Name</b>	<b>Test Criteria</b>	<b>Test Results</b>	<b>Outputs</b>	<b>Completed</b>
2.	Researcher clicks on a delete comment link.	Researcher selects the delete comment link	Go to Step 3	None	
3	Researcher Logins into the system.	System verifies Login Credentials	Go to Use Case Step 5	None	
3		Login Credentials are incorrect	Displays invalid Login message	Error message	
5	System Deletes Comment	Researcher selected delete comment	Database updated	None	

**Use Case Name:** Report Inappropriate Comment

**Developer Name:** Adil Arif

**Use Case Number:** 2.4

**Use Case**

<b>Step #</b>	<b>Function Name</b>	<b>Test Criteria</b>	<b>Test Results</b>	<b>Outputs</b>	<b>Completed</b>
4	A user clicks the report inappropriate comment	User selects Report Inappropriate Comment	Step 5	Message indicating the stall will be notified	
4		User selects Report Inappropriate Comment	The system will notify the staff's login screen	None	

**Use Case Name:** Delete Artifact

**Developer Name:** Adil Arif

**Use Case Number:** 2.5

**Use Case**

<b>Step #</b>	<b>Function Name</b>	<b>Test Criteria</b>	<b>Test Results</b>	<b>Outputs</b>	<b>Completed</b>
2	Researcher Logins into the system.	System verifies Login Credentials	Go to Use Case Step 4	None	
2		Login Credentials are incorrect	Displays invalid Login message	Error message	
4	Researcher clicks the Delete Artifact button	Researcher clicks the Delete Artifact button	Database Updated	None	




**Use Case Name:** Create Sigla Tag

**Developer Name:** Adil Arif

**Use Case Number:** 2.6

**Use Case**

<b>Step #</b>	<b>Function Name</b>	<b>Test Criteria</b>	<b>Test Results</b>	<b>Outputs</b>	<b>Completed</b>
1	Researcher Logins into the system.	System verifies Login Credentials	Go to Use Case Step 3	None	
1		Login Credentials are incorrect	Displays invalid Login message	Error message	
4	Staff selects Create Sigla Tag	Staff clicks Create Sigla Tag	Go to Use Case Step 5	None	
5	Staff writes a new Sigla Tag	Staff entered a string	Go to Use Case Step 5	None	
		Staff clicked submit	Database updated	None	

**Use Case Name: Upload Artifact**

**Use Case Number: 001**

**Developer Name: Patrick Yount**

Use Case	Completed				
Step #	Function Name	Test Criteria	Test Results	Outputs	Who, Date
2	System validates login information.	Login contains no empty fields (username, password).	Continue validation.	None	
2		Login contains empty fields (username, password).	Displays invalid login error message.	Error message	
2	Continued validation	Username and password are found on system and are valid.	Go to Use Case Step 3	None	
2	Continued validation	Username and password are not found on system or are invalid.	Displays invalid login error message.	Error message	
7	System validates form is complete	No required field (name, location, date found) is empty.	Go to Use Case Step 8	None	
7		A required field (name, location, date found) is empty.	Displays incomplete form error message	Error message	

8	Researcher confirms 'Upload Artifact' submission	User selects SUBMIT.	Database updated	Completion message
8		User selects CANCEL	Database NOT modified	Cancellation message

**Use Case Name: Update News**

**Use Case Number: 007**

**Developer Name: Patrick Yount**

Use Case	Step #	Function Name	Test Criteria	Test Results	Outputs	Who, Date
	2	System validates login information.	Login contains no empty fields (username, password).	Continue validation.	None	
	2		Login contains empty fields (username, password).	Displays invalid login error message.	Error message	
	2	Continued validation	Username and password are found on system and are valid.	Go to Use Case Step 3	None	
	2	Continued validation	Username and password are not found on system or are invalid.	Displays invalid login error message.	Error message	
	6	System validates	No required field (article, author,	Go to Use Case	None	

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	form is complete	date) is empty.	Step 7		
6		A required field (article, author, date) is empty.	Displays incomplete form error message	Error message	
7	Staff member confirms 'Update News' submission	User selects SUBMIT.	'News' is updated	Completion message	
8		User selects CANCEL	'News' is not updated	Cancellation message	

**Use Case Name: Upload Artifact****Use Case Number: 001****Developer Name: Patrick Yount**

Use Case					Comple
Step #	Function Name	Test Criteria	Test Results	Outputs	Who, Da
2	System validates login information.	Login contains no empty fields (username, password).	Continue validation.	None	
2		Login contains empty fields (username, password).	Displays invalid login error message.	Error message	

2	Continued validation	Username and password are found on system and are valid.	Go to Use Case Step 3	None	
2	Continued validation	Username and password are not found on system or are invalid.	Displays invalid login error message.	Error message	
7	System validates form is complete	No required field (name, location, date found) is empty.	Go to Use Case Step 8	None	
7		A required field (name, location, date found) is empty.	Displays incomplete form error message	Error message	
8	Researcher confirms 'Upload Artifact' submission	User selects SUBMIT.	Database updated	Completion message	
8		User selects CANCEL	Database NOT modified	Cancellation message	

**Use Case Name: Administrate**

**Developer Name:** Geoff Montee

**Use Case Number:** SCR-012

Use Case Step #	Function Name	Test Criteria	Test Results	Outputs	Completed
1	Check authentication session	User is logged into a Staff account	Print usual administration options	Usual admin root page	
		User is logged into non-staff account	Print error message saying that the user has insufficient privileges	Error Message	
		User is not logged in	Redirect user to Login Use Case	Redirect	
2.1	Modify users	User clicks Modify Users link	Redirect to Modify Users page to perform Modify Users Use Case	Redirect	
2.2	Update News	User clicks Update News link	Redirect to Update News page to perform Update News Use Case	Redirect	
2.3	Create Siglum Tag	User clicks Create Siglum Tag link	Redirect to Create Siglum Tag page to perform Create Siglum Tag Use Case	Redirect	

**Use Case Name: Register as Researcher**

**Developer Name: Geoff Montee**

**Use Case Number: SCR-004**

**Use Case**

<b>Step #</b>	<b>Function Name</b>	<b>Test Criteria</b>	<b>Test Results</b>	<b>Outputs</b>	<b>Completed</b>
1	Check current session	No current authentication session	Go to Use Case Step 2	Usual input form	
		User is currently logged in	Display message that user must log out to register a new account	Error message	
4	System validates Researcher Information	Researcher Information is valid	Insert information into database and then go to Use Case Step 5	none	
		First name is not valid	Go to Alternate Path Step 4.1 and Flag first name as invalid	Error message and reload form	
		Last name is not valid	Go to Alternate Path Step 4.1 and Flag last name as invalid	Error message and reload form	
		Organization name is not valid	Go to Alternate Path Step 4.1 and Flag organization name as invalid	Error message and reload form	
		E-mail address is not valid	Go to Alternate Path Step 4.1 and Flag e-mail address as invalid	Error message and reload form	
		No choice for language	Go to Alternate Path Step 4.1 and Flag	Error message and reload	

			language choice as invalid	form	
		Username is not valid	Go to Alternate Path Step 4.1 and Flag username as invalid	Error message and reload form	
		Username is taken	Go to Alternate Path Step 4.1 and Flag username as invalid because it's taken	Error message and reload form	
		Password is invalid	Go to Alternate Path Step 4.1 and Flag password as invalid	Error message and reload form	
		Repeated password does not match	Go to Alternate Path Step 4.1 and Flag repeated password as incorrect	Error message and reload form	
5	Confirmation	Registration went smoothly	User is redirected to Registration Confirmation Page	Message on Registration Confirmation page	

**Use Case Name:** Edit Artifact

**Developer Name:** Robert Hall

**Use Case Number:** 5



Use Case Step #	Function Name	Test Criteria	Test Results	Outputs	Completed
2	User submits the query.	User selects SUBMIT	Continue to System Validates Input Data.	None	
		User selects CANCEL	User is forwarded to the previous page. Changes are not applied.	Previous page	
3	System validates Input data.	Data is valid.	Displays a confirmation message.	Success message	
		Uploaded image is an invalid type.	Display an invalid image type error message.	Error Message	
		Date is not a correct format.	Display an invalid date format error message.	Error Message	
		Any field contains an invalid character.	Display an invalid character error message.	Error Message	

**Use Case Name:** Advanced Search (previously, Search by Attributes)

**Developer Name:** Robert Hall

**Use Case Number:** 6

Use Case Step #	Function Name	Test Criteria	Test Results	Outputs	Completed
2	User submits the query.	User selects SUBMIT	Continue to System Displays Results.	None	
		User selects CANCEL	User is forwarded to the previous page.	Previous page	
3	System displays	Specified criteria	Matching Artifacts	Matching	

	Search Results.	matches at least one Artifact.	are displayed.	Artifact Links	
		Specified criteria does not match any Artifact	Display a "no matches found" error message.	Error Message	

**Use Case Name:** Search by Tag

**Developer Name:** Robert Hall

**Use Case Number:** 7

**Use Case**

Step #	Function Name	Test Criteria	Test Results	Outputs	Completed
3	System displays Tag Search Results.	Specified tag matches at least one different Artifact.	Matching Artifacts are displayed.	Matching Artifact Links	
		Specified tag does not match any different Artifact	Display a "no matches found" error message.	Error Message	

**Use Case Name:** Login

**Developer Name:** Yuan Yao

**Use Case Number:** 3

**Use Case**

Step #	Function Name	Test Criteria	Test Results	Outputs	Completed
4	System validates The User Name and Password	The Name and Password in Correct format	Continue validation	None	

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4		The Name and Password are not in Correct format	Display incorrect form Error Message, and go to the login window, and let the researcher re-type his Name and Password	Error Message	
4	Continue validation	The Name is found on system.	Continue validation		
4		The Name is not found on system.	Display non-exist user error message, and go to the login window, and let the researcher re-type his Name and Password	Error Message	
4	Continue validation	The Password supply by researcher match to the password in database	Validation done, and go to welcome page		
4		The Password supply by researcher does not match to the password in database	Display wrong password error message, and go to the login window, and let the researcher re-type his Name and Password	Error Message	

**Use Case Name: Update Profile**

**Developer Name: Yuan Yao**

**Use Case Number: 10**

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Use Case Step #	Function Name	Test Criteria	Test Results	Outputs	Completed
2	System validate whether researcher has authority's to update his information	Researcher has authority to update	Go to step 3		
2		Researcher do not has authority to update(may be his account has been freeze)	Display the error message to inform Researcher that his do not has right to update his profiles	Inform message	
5	System validate the information which fill out by Researcher	Researcher fill out all the info	Continues validation		
5		Researcher miss some parts of info	Change color of the missing parts and go back to the previous page, and let Researcher re-fill the missing parts	Error message and color changed on missing part	
5	Continues validation	The information supplied by Researcher all in correct format	Validation done, data update, system sends an email to user's mail box.	Email send	
5		Some information supplied by Researcher are not in correct format	Display error message and go to step 3	Error message	

**Use Case Name: Edit Researcher**

**Developer Name: Yuan Yao**

**Use Case Number: 12**

**Use Case**

<b>Step #</b>	<b>Function Name</b>	<b>Test Criteria</b>	<b>Test Results</b>	<b>Outputs</b>	<b>Completed</b>
4	System validate the information edit by staff	some information is missing	Missing info error message and go back to previous page	Error message	
4		No information is missing	Continues validation		
4	Continues validation	Some information is in wrong format	Wrong format info error message and go back to previous page	Error message	
4		No information is in wrong format	Validation done, a email send to Researcher	Email send	

### **Method Description**

<b>Name</b>	Register()
<b>Class Name</b>	Researcher
<b>Purpose</b>	This method is used for Researchers to register into the system
<b>Triggers/Events</b>	A User clicks on the register link at the top of the page

**Arguments Received**

<b>Name</b>	<b>Data Type</b>	<b>Comments</b>
firstname	String	
lastname	String	
organization	String	
language	String	
password	String	
emailaddress	String	

**Methods from Other Classes**

<b>ClassName.MethodName</b>	<b>Comments</b>

**Argument Returned**

<b>Data Type</b>	<b>Comments</b>
void	

**Algorithm Specification**

<pre> FirstName = firstname; LastName = lastname; Organization = organization; Language = language; Password = password; </pre>
---

```
emailAddress = emailaddress;
```

<b>Name</b>	EditInfo()
<b>Class Name</b>	Researcher
<b>Purpose</b>	This method allows a researcher to edit their personal information.
<b>Triggers/Events</b>	Researcher selects 'Update Profile.'

#### Arguments Received

Name	Data Type	Comments
FirstName	String	
LastName	String	
Organization	String	
Language	String	
Password	String	

#### Methods from Other Classes

ClassName.MethodName	Comments

#### Argument Returned

Data Type	Comments
Boolean	

**Algorithm Specification**

```

If (password is null)
    return false
else
    update FirstName, LastName, Organization, Language, and Password
    return true

```

<b>Name</b>	Search()
<b>Class Name</b>	EntireCollection
<b>Purpose</b>	This method returns a set of artifacts that are tagged with a particular SiglumTag.
<b>Triggers/Events</b>	General User keys in various siglum tags into Search Form

**Arguments Received**

<b>Name</b>	<b>Data Type</b>	<b>Comments</b>
Keyword	String	

**Methods from Other Classes**

<b>ClassName.MethodName</b>	<b>Comments</b>



**Argument Returned**

Data Type	Comments
void	Rather than a return, it redirects the General User to the Search Results page with the matching artifacts

**Algorithm Specification**

```

<?php
//This assumes a mysql database using PHP, however it is generic enough to show how
//something like this should operate.

function Search($keyword)
{
$query = "SELECT * FROM Artifacts JOIN SiglumTags ON Artifacts.Artifact_ID =
SiglumTags.Artifact_ID where SiglumTag.SiglumType = " . $keyword;

$result = mysql_query($query);

$artifacts = mysql_fetch_assoc($result);

print_results_page($artifacts);
}

?>

```

<b>Name</b>	EditArtifact()
<b>Class Name</b>	Artifact
<b>Purpose</b>	This method allows a Researcher to edit the Attributes of an Artifact that the Researcher previously submitted.
<b>Triggers/Events</b>	Researcher selects the "Edit" option in the Artifact page.

#### Arguments Received

Name	Data Type	Comments
Artifact_ID	Integer	Identifier of Artifact to be edited.
Name	String	
Location	String	
DateFound	Integer	

#### Methods from Other Classes

ClassName.MethodName	Comments

#### Argument Returned

Data Type	Comments
Boolean	Denotes success or failure.

#### Algorithm Specification

--

```

If (validateFields() && Artifact.Owner == Researcher)

    return true

else

    return false

```

<b>Name</b>	Login(username:string, Password:string)
<b>Class Name</b>	Researcher
<b>Purpose</b>	This method login users as researchers when valid user names and passwords were entered
<b>Triggers/Events</b>	Type user name and passwords, and click login button

#### Arguments Received

Name	Data Type	Comments
username	String	
Password	String	

#### Methods from Other Classes

<b>ClassName.MethodName</b>	<b>Comments</b>
Member.Check(username:string, Password:string)	Check correctness of username and password

#### **Argument Returned**

<b>Data Type</b>	<b>Comments</b>
Boolean	

#### **Algorithm Specification**

```
If (Member.Check(username:string, Password:string))
    return true
else
    return false
```

### Scenario Analysis Table

<b>Use Case Name</b>	Create Comment
<b>Use Case ID</b>	SCR-002

#### Normal Scenario

Step #	Step Text	Data	Screens	Reports
		Stored	Needed	Needed
1.	Researcher views Artifact		View Artifact	
2.	Researcher clicks on the Create Comment Link			
3.	Researcher Log's into the System		Researchers: Login Form	
4.	System Validates Researcher login			
5.	Researcher types in comment			
6.	Researcher clicks submit to the typed in comment	Submitted Comment		
7.	System places comment on the artifact page			

<b>Use Case Name</b>	Edit Comment
<b>Use Case ID</b>	SCR-002

**Normal Scenario**

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
1.	Researcher views Artifact		View Artifact	
2.	Researcher clicks on the Edit Comment Link			
3.	Researcher Log's into the System		Researchers: Login Form	
4.	System Validates Researcher login			
5.	Researcher edit's in comment			
6.	Researcher clicks submit to the typed in comment	Submitted Comment		
7.	System edits comment on the artifact page			

<b>Use Case Name</b>	Delete Comment
<b>Use Case ID</b>	SCR-002

**Normal Scenario**

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
---------------	------------------	--------------------	-----------------------	-----------------------

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1.	Researcher views Artifact		View Artifact	
2.	Researcher clicks on the Delete Comment Link			
3.	Researcher Log's into the System		Researchers: Login Form	
4.	System deletes comment			

<b>Use Case Name</b>	Delete Artifact
<b>Use Case ID</b>	SCR-002

### Normal Scenario

Step #	Step Text	Data Stored	Screens Needed	Reports Needed
1.	Researcher views Artifact		View Artifact	
2.	Researcher Log's into the System		Researchers: Login Form	
3.	System Validates Researcher login			
4.	Researcher clicks the Delete Artifact Button.			
5.	The system deletes the artifact from the database			

<b>Use Case Name</b>	Create Sigla Tag
<b>Use Case ID</b>	SCR-006

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
1.	Staff Login to the System		Researchers: Login Form	
2.	System Validates Staff's login			
3.	Staff Enters Adminstrate		Administrate	
4.	Staff selects Create Sigla Tag.			
5	Staff writes a new Sigla tag.	Sigla Tag		
6.	The system creates a new Sigla tag			

<b>Use Case Name</b>	Report Inappropriate Comment
<b>Use Case ID</b>	SCR-002

### Normal Scenario

<b>Step</b>	<b>Step Text</b>	<b>Data</b>	<b>Screens</b>	<b>Reports</b>
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#		Stored	Needed	Needed
1.	A user views the artifact		Artifact	
2.	A user views the comments			
3.	A user views an inappropriate comment			
4.	A user clicks the report inappropriate comment	Comment ID		
5.	The staff are notified			

<b>Use Case Name</b>	Login
<b>Use Case ID</b>	3

#### Normal Scenario

Step #	Step Text	Data	Screens	Reports
		Stored	Needed	Needed
1	Researcher type his user name and password		Login Screen	
2	System validate the user name and			

	password			
<b>3</b>	Screen display whether the login is successful or not. If login is successful. The system link researcher to other page.		Login-Confirmation Screen	

<b>Use Case Name</b>	Update Profile
<b>Use Case ID</b>	10

#### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
<b>1</b>	Researcher edit his information (Name, Address, Phone number, etc)		Update Profile Screen	
<b>2</b>	System validate the information			
<b>3</b>	System confirms the information	Researcher info	Update-Confirmation Screen	
<b>4</b>	System email update information to researcher's mail box			

<b>Use Case Name</b>	Verify Researcher
<b>Use Case ID</b>	11

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
<b>1</b>	Staff pull out specific researcher from researcher list		Researcher list Screen	
<b>2</b>	Staff verify the Researcher's information		Researcher profile screen	
<b>3</b>	System confirm the validation made by staff	Store the validation		

<b>Use Case Name</b>	Edit Researcher
<b>Use Case ID</b>	12

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
<b>1</b>	Staff pull out specific researcher from researcher list		Researcher list Screen	

<b>2</b>	Staff modify the researcher' information		Researcher profile screen	
<b>4</b>	Staff submits his modification			
<b>5</b>	System confirm this Modification	Researcher info		
<b>6</b>	System email a notice to researcher's mail box			

<b>Use Case Name</b>	Delete Researcher
<b>Use Case ID</b>	13

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
<b>1</b>	Staff pull out specific researcher from researcher list		Researcher list Screen	
<b>2</b>	Staff press delete button		Researcher profile screen	
<b>3</b>	System confirm this deletion			

<b>4</b>	System email a notice to researcher's mail box			
----------	--	--	--	--

<b>Use Case Name</b>	Register as Researcher
<b>Use Case ID</b>	SCR-004

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
<b>1.</b>	General User arrives at the Registration page.		Registration Form	
<b>2.</b>	General User enters Researcher Information.		Registration Form	
<b>2.1</b>	General User enters first name into corresponding text box.		Registration Form	
<b>2.2</b>	General User enters last name into corresponding text box.		Registration Form	
<b>2.3</b>	General User enters organization name into corresponding text box.		Registration Form	
<b>2.4</b>	General User enters e-mail address into corresponding text box.		Registration Form	
<b>2.5</b>	General User picks language from drop-		Registration Form	

	down list box.			
<b>2.6</b>	General User enters desired username into corresponding text box.		Registration Form	
<b>2.7</b>	General User enters desired password into corresponding text box with input hidden.		Registration Form	
<b>2.8</b>	General User repeats desired password into corresponding text box with input hidden.		Registration Form	
<b>3.</b>	General User hits submit button.		Registration Form	
<b>4</b>	System validates Researcher Information.			
<b>5.</b>	System directs user to Display Registration Confirmation page.		Display Registration Confirmation	

<b>Use Case Name</b>	Administrate
<b>Use Case ID</b>	SCR-012

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
<b>1.</b>	The authenticated Staff user arrives at the Administration Root		Administration Root Page	

	page.			
2.	The user clicks on an Administration Task link.		Administration Root Page	

<b>Use Case Name</b>	Upload Artifact
<b>Use Case ID</b>	001

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
1	Researcher logs in.		SCR-003 Researchers: Login Form	
2	Researcher selects 'Manage Artifact.'		SCR-013 Home Page	
3	Researcher selects 'Upload Artifact.'		SCR-013 Home Page (Manage Artifact menu expanded)	
4	Researcher completes 'Upload Artifact Form.'		SCR-001 Researchers: Upload Artifact Form	
5	Researcher submits		SCR-001	

	'Upload Artifact Form.'		Researchers: Upload Artifact Form	
6	System stores artifact.	name, location, date found	None	

<b>Use Case Name</b>	Update News
<b>Use Case ID</b>	007

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
1	Staff member logs in.		SCR-003 Researchers: Login Form	
2	Staff member selects 'Update News.'		SCR-013 Home Page	
3	Staff member completes 'Update News Form.'		SCR-007 Administration: Update Home Page News	
4	Staff member submits 'Update News Form.'		SCR-007 Administration: Update Home Page News	
5	System stores news.	article, author, date	None	



<b>Use Case Name</b>	Edit Artifact
<b>Use Case ID</b>	5

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
1	Researcher edits Name, Location, Date Found, Image, and/or Keyword fields.		Edit Artifact: Attributes	
2	Researcher submits transaction.			
3	System validates input data.			
4	System displays a confirmation message.	Artifact Attributes	Edit Artifact: Attributes	

<b>Use Case Name</b>	Search by Attribute
<b>Use Case ID</b>	6

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
1	User fills in the search fields.		View Artifact: Search Form	

2	User submits query.			
3	System displays search results.		View Artifact: Search Results	

<b>Use Case Name</b>	Search by Tag
<b>Use Case ID</b>	7

### Normal Scenario

<b>Step #</b>	<b>Step Text</b>	<b>Data Stored</b>	<b>Screens Needed</b>	<b>Reports Needed</b>
1	System displays tag results.		View Artifact: Search Results	

### User Interface Navigation Matrix

#### Delete Comment Use Case

	View Artifact: Attributes & Comments		
View Artifact: Attributes & Comments	Delete button		

## Create Comment Use Case

	View Artifact: Attributes & Comments	View Artifact: Create Comment	
View Artifact: Attributes & Comments	X	Create Comment Button	
View Artifact: Create Comment	Submit Button	X	

## Edit Comment Use Case

	View Artifact: Attributes & Comments	View Artifact: Edit Comment	
View Artifact: Attributes & Comments	X	Edit button	
View Artifact: Edit Comment	Submit Button	X	

## Report Inappropriate Comment Use Case

	View Artifact: Attributes & Comments		
View Artifact: Attributes & Comments	Report Inappropriate Comment button		

## Create Artifact Tag Use Case

	Create Artifact Tag	Administration Root Page	
Create Artifact Tag	X	Enter button	
Administration Root Page	Create Artifact Tag link	X	

## Upload Artifact

	L	HP	UA	Conf
LoginScreen (L)	X	Submit	X	X
HomePageScreen (HP)	Log Out	X	Upload Artifact	X
UploadArtifactScreen (UA)	Log Out	Cancel	X	Submit
ConfirmationScreen (Conf)	X	Submit	Modify	X

## Update News

	L	HP	UN	Conf
LoginScreen (L)	X	Submit	X	X
HomePageScreen (HP)	Log Out	X	Update News	X
UpdateNewsScreen (UN)	Log Out	Cancel	X	Submit
ConfirmationScreen (Conf)	X	Submit	Modify	X

## Register as Researcher Use Case

	Registration Form	Display Registration Confirmation
Registration Form	n/a	Submit
Display Registration Confirmation	Back	n/a

## Administrate Use Case

	Researcher Login Form	Create New Siglum Tag	Update Home Page News	View User List	Administration Home Page	Researcher Manage Account	Revoke Researcher Privileges Confirmation
Researcher Login Form	n/a	n/a	n/a	n/a	Submit	n/a	n/a
Create New Siglum Tag	Logout	n/a	n/a	n/a	Back, "Administration Home Page" link	"Manage Account" link	n/a
Update Home Page News	Logout	n/a	n/a	n/a	Back, "Administration Home Page" link	"Manage Account" link	n/a
View User List	Logout	n/a	n/a	n/a	Back, "Administration Home Page" link	"Manage Account" link	Check username and select revoke privileges
Administration Home Page	Logout	"Create Siglum Tag" link	"Update News" link	"Manage Users" link	n/a	"Manage Account" link	n/a
Researcher Manage Account	Logout	n/a	n/a	n/a	"Administration Home Page" link	n/a	n/a

## Edit Artifact

	Edit Artifact	Success/Failure	View Artifact
Edit Artifact	N/A	Submit	Cancel
Success/Failure	N/A	N/A	Timer OR Link
View Artifact	Edit	N/A	N/A

## Advanced Search

	Search Form	Search Results	Home Page	View Artifact
Search Form	N/A	Search	Cancel	N/A
Search Results	Redefine Search	N/A	Home	Thumbnail
Home Page	Advanced Search	N/A	N/A	N/A
View Artifact	N/A	N/A	Home	N/A

## Search by Keywords

	Search Bar (Top Frame)	Search Results	View Artifact
Search Bar	Permanent	Search	N/A
Search Results	Permanent	N/A	Thumbnail
View Artifact	Permanent	N/A	N/A

## Search by Tag

	Tag Cloud (Home Page)	Search Results	View Artifact
Tag Cloud	N/A	Select Any Tag	N/A
Search Results	Home	N/A	Thumbnail
View Artifact	Home	N/A	N/A

## Login Use Case

	Login Form	Wrong Password or non-exist User	Register as new User	Success Login
Login Form	N/A	Confirm the alert window	Back	Back
Wrong Password or non-exist User	User type in wrong info	N/A	N/A	N/A
Register as new User	Click the registration button	Click the registration button	N/A	Back
Success Login	User type in Correct info	N/A	After fill out all require info and click submit button	N/A



## Update Profile

	Researcher manage page	Information fill-in form	Picture upload	Wrong information alert	Success Submit
Researcher manage page	N/A	Back	N/A	User click cancel button	User click confirm button and change have been update
Information fill-in form	User Click update button	N/A	Back	User click confirm button	Back
Picture upload	N/A	Click the Picture-upload button	N/A	N/A	N/A
Wrong information alert	N/A	User type wrong info	N/A	N/A	N/A
Success Submit	N/A	User type correct info and click submit button	N/A	N/A	N/A

## Verify Researcher

	Administrative page	Researcher information page	Researcher Privileges Grant	Researcher Privileges Deny
Administrative page	N/A	Back	Click confirm button	Click confirm button
Researcher information page	Staff click view button	N/A	Back	Back
Researcher Privileges Grant	N/A	Click the accept button	N/A	N/A
Researcher Privileges Deny	N/A	Click the deny button	N/A	N/A

## Edit Researcher

	Administrative page	Researcher Information modification page	Modification Success	Modification Fail
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Administrative page	N/A	Back	Click confirm button	Click confirm button
Researcher Information modification page	Staff click modification button	N/A	Back	Back
Modification Success	N/A	Click the accept button	N/A	N/A
Modification Fail	N/A	Click the cancel button	N/A	N/A