**FINAL DESCRIPTIONS FOR GRADING**

**Use Case Description**

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| --- | --- |
| **Name** | Upload Artifact |
| **ID** | SCR-1 |
| **Requirement Number** | 3.3 |
| **Description** | This use case describes how a researcher uses the system website to upload an artifact. |
| **Primary Actor** | Researcher |
| **Secondary Actor(s)** | N/A |
| **Pre-condition** | * The researcher must be logged into the system. * The researcher must have the appropriate privileges necessary to upload an artifact. * The system website must have an active network connection. * The system must have enough available disk storage to allocate for the new artifact data. |
| **Post-condition** | * The researcher has successfully completed the artifact upload process, a success message is displayed and, the artifact information is stored in the system database. * The researcher has failed to complete the artifact upload process and an error message is displayed. |
| **Trigger** | Researcher selects the 'Upload Artifact' option. |

**Normal Scenario**

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|  | **Use Case Begins**  Researcher selects the 'Upload Artifact' option. |
|  | **Input Artifact's Data**  Researcher fills out the *Upload Form* fields with the desired data. |
|  | **Validate Artifact's Data**  System validates the input data. |
|  | **Store Artifact's Data**  System allocates disk space for the new Artifact.  System stores the received data in the Artifact allocated disk space.  System assigns an unique ID to the Artifact. |
|  | **Display Success Message & Redirection**  System briefly displays a *confirmation message*.  Researcher is redirected to the **View Artifact** page of the uploaded Artifact. |
|  | **Use Case Ends**  The use case ends. |

**Extensions**

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|  | **Use Case Begins** |
|  | **Researcher does not meet appropriate privileges necessary to upload an Artifact**  System displays an error message and instructions for contacting the System Administrator.  Resume basic flow at **Use Case Ends.** |
|  | **Researcher is not logged in**  System briefly displays an error message explaining the Researcher is not logged in.  Researcher is redirected to **Login** page.  Resume basic flow at **Use Case Ends.** |
|  | **Validate Artifact's Data** |
|  | **Received data is invalid**  System displays an error message explaining why the data was found invalid.  System highlights the offending field with red.  Resume basic flow at **Input Artifact's Data.** |
|  | **Store Artifact's Data** |
|  | **There is no sufficient disk space to store the new Artifact**  System displays an error message explaining that there is not enough disk space to continue the operation.  System sends an automated e-mail to the System Administrators explaining that the system has run out of disk space.  Resume basic flow at **Use Case Ends.** |

**Actor Description**

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| **Name** | Researcher |
| **Alternate Names** | Scholar |

**Input Data**

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| --- | --- |
| **Name of Use Case** | **Inputs to the System** |
| Manage Collection | This is an expandable section that includes 2 subsections (Remove Artifact, Add Artifact)  Researcher need provide Artifact information such as, Artifact name, Date found, Date of origin to system |
| Manage Artifact | This is an expandable section that includes 4 subsections (Edit Artifact, Delete Artifact, Upload Artifact, and Publish). Researcher need provide Artifact information such as, Artifact name, Date found, Date of origin to system |
| Manage Account | This is an expandable section that includes 3 subsections (Update Profile, Change Password, and Retrieve Password) Update Profile use case need Researcher provide Name, Address, Zip code, Phone Number….Change Password use case need old password and new password, and Retrieve Password use case need password protection questions. |
| Comment Artifact | Comment |

**Output Data**

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| --- | --- |
| **Name of Use Case** | **Outputs from the System** |
| Manage Collection | Confirmation Message |
| Manage Artifact | Confirmation Message |
| Manage Account | All profile attribute fields and their value. |
| Comment Artifact | All comments for the selected artifact. |

**Description**

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| A researcher is a general user who has successfully completed the researcher registration process. |

**Comments**

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

**Class Description**

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| **Name** | Artifact |
| **Description** | This class represents an Etruscan artifact. |

**Attributes**

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| **Name of Attribute** | **Data Type** | **Description** |
| Artifact\_ID | Int | A primary key that represents a distinct artifact. |
| OwnerID | Int | A foreign key that refers to the Researcher who ceated the artifact. |

**Methods**

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| **Method Signature** | **Description** |
| NewArtifact(): Artifact | This method adds a new artifact to the system. |
| Edit:Artifact(Artifact\_ID: Int): Artifact | This method edits an existing artifact. |
| DeleteArtifact(Artifact\_ID: Int): Boolean | This method deletes an existing artifact if it hasn't been published. It returns true on success and false on failure. |
| DisplaySimilarArtifacts(Artifact\_ID: Int): Boolean | This method displays artifacts similar to the one currently being viewed. It returns true, or false if no similar artifacts could be found. |

**Relationships**

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| **Class Name** | **Type of Relationship** | **Comments** |
| EntireCollection | Associate | This is a logical relationship. Every artifact is part of the “Entire Collection.” |
| SiglaTag | Associate | This is a Many-To-Many relationship. A Sigla Tag describes a siglum. A type of siglum can be on many artifacts, any an artifact can have many sigla. |
| Image | Associate | This is a One-To-Many relationship. One artifact have have many images. |
| Size | Associate | This is a One-To-One relationship. The elements of size could easily be moved into the Artifact class, but the division is to make things clearer. |
| Publish | Associate | This is a One-To-Many relationship. The purpose of the relationship is to maintain a history. |
| Location | Associate | This is a One-To-Many relationship. The purpose here is similar to the purpose of the Size relationship. |
| ArtifactCharacteristics | Associate | This is a One-To-Many relationship. This relationship actually describes the artifact. The factorization is to keep track of different versions. |
| Keyword | Associate | This is a Many-To-Many relationship. A keyword is a string that describes an artifact. The purpose is to enable searching of artifacts. |

**Attribute Description**

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| --- | --- |
| **Name** | Organization |
| **Class Name** | Researcher |
| **Alternate Name(s)** | Affiliation |
| **Type** | String |
| **Length** | 80 |
| **Output Format** | “XXXXX..” where X is a character |
| **Default Value** | Blank |
| **Acceptable Values** | “XXXXX…” where X is a character or blank |
| **Source (where value comes from)** | Researcher |
| **Derivation Formula** | None |
| **Description** | Researcher supplies the name of the organization that he belongs to. |
| **Comments** | Supplied by the researcher on the registration application form. |

**Method Description**

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

**Arguments Received**

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| --- | --- | --- |
| **Name** | **Data Type** | **Comments** |
| firstname | String |  |
| lastname | String |  |
| organization | String |  |
| language | String |  |
| password | String |  |
| emailaddress | String |  |

**Methods from Other Classes**

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| --- | --- |
| **ClassName.MethodName** | **Comments** |
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**Argument Returned**

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| --- | --- |
| **Data Type** | **Comments** |
| void |  |

**Algorithm Specification**

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| FirstName = firstname;  LastName = lastname;  Organization = organization;  Language = language;  Password = password;  EmailAddress = emailaddress; |