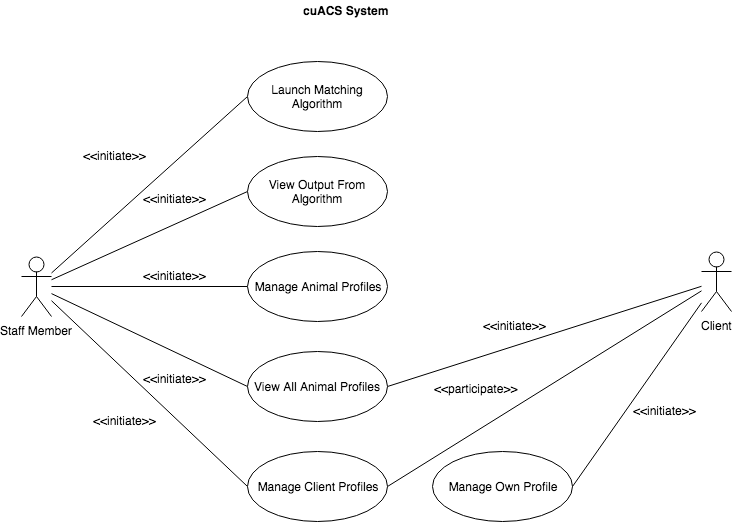
Use Case Diagrams



High Level Use Case Descriptions

|  |  |  |
| --- | --- | --- |
| UC-01 | **Launch Matching Algorithm** | Staff members launch an instance of the animal-client matching algorithm. |
| UC-02 | **View Output From Algorithm** | Staff members view the simple and detailed output from the matching algorithm. |
| UC-03 | **Manage Animal Profiles** | Staff members view, add, and alter animal profiles. |
| UC-04 | **View All Animal Profiles** | Staff members and clients view the profiles of all animals in the shelter. |
| UC-05 | **Manage Client Profiles** | Staff members manage the profiles of clients. |
| UC-06 | **Manage Own Profile** | Clients manage their own profile. |

High Level Use Case Breakdowns

|  |  |
| --- | --- |
| Use Case Identifier | UC-01 |
| Use Case Name | **Launch Matching Algorithm** |
| Participating Actor(s) | Staff member |
| Flow of Events | 1. The Staff member launches an instance of the ACM algorithm to match clients and animals. |
| Entry Condition(s) | - |
| Exit Condition(s) | The algorithm finishes, storing the results in memory. |
| Quality Requirement(s) | While the algorithm is being run, a progress bar should appear showing the progress of matching. |
| Traceability | FR-3.0.0, FR-3.1.0, FR-3.4.0 |

|  |  |
| --- | --- |
| Use Case Identifier | UC-02 |
| Use Case Name | **View Output From Algorithm** |
| Participating Actor(s) | Staff member |
| Flow of Events | 1. Staff member |
| Entry Condition(s) | A running instance of the algorithm has been completed, making the output information available for viewing. |
| Exit Condition(s) | - |
| Quality Requirement(s) | - |
| Traceability | FR-3.0.0, FR-3.2.0 |

|  |  |
| --- | --- |
| Use Case Identifier | UC-03 |
| Use Case Name | **Manage Animal Profiles** |
| Participating Actor(s) | Staff member |
| Flow of Events | 1. |
| Entry Condition(s) | - |
| Exit Condition(s) | The new or altered animal profile is saved to persistent storage. If the profile was removed, it should be removed from persistent storage. |
| Quality Requirement(s) |  |
| Traceability |  |

|  |  |
| --- | --- |
| Use Case Identifier | UC-04 |
| Use Case Name | **View All Animal Profiles** |
| Participating Actor(s) | Staff member |
| Flow of Events | 1. Staff member |
| Entry Condition(s) |  |
| Exit Condition(s) |  |
| Quality Requirement(s) |  |
| Traceability |  |

|  |  |
| --- | --- |
| Use Case Identifier | UC-05 |
| Use Case Name | **Manage Client Profiles** |
| Participating Actor(s) | Staff member, Client |
| Flow of Events |  |
| Entry Condition(s) |  |
| Exit Condition(s) |  |
| Quality Requirement(s) |  |
| Traceability |  |

|  |  |
| --- | --- |
| Use Case Identifier | UC-06 |
| Use Case Name | **Manage Own Profile** |
| Participating Actor(s) | Client |
| Flow of Events |  |
| Entry Condition(s) |  |
| Exit Condition(s) |  |
| Quality Requirement(s) |  |
| Traceability |  |

Detailed Use Case Descriptions

|  |  |  |
| --- | --- | --- |
| UC-07 | **Launch Matching Algorithm** | Staff members launch an instance of the animal client matching algorith which runs in the background. |
| UC-08 | **View List Of Matches From Matching Algorithm** | Staff members see a list of matched clients and animals output by the algorithm. |
| UC-09 | **View Detailed Output For A Specific Match** | Staff members select one match from the list and view the detailed output about why the match was made by the algorithm. |
| UC-10 | **Add** |  |
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| --- | --- |
| Use Case Identifier |  |
| Use Case Name |  |
| Participating Actor(s) |  |
| Flow of Events |  |
| Entry Condition(s) |  |
| Exit Condition(s) |  |
| Quality Requirement(s) |  |
| Traceability |  |