|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC01 | |
| **Use Case Name** | User Authentication | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step2:** User Enters their username and password    **Step3:** User click’s the log-in button | **Step1:** User displays log in page          **Step4:** System display weather station page |
| **Alternate Flow** | 1. At **Step3:**  If the username and password did not match | System’s display’s a message |
| **Precondition** | User must have an account linked to WAMS | |
| **Post condition** | User was able to login to the system | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC02 | |
| **Use Case Name** | User Registration | |
| **Actor(s)** | Admin | |
| **Basic Flow** | Actor Action | System Response |
| **Step2:** User enters the correct fields and data    **Step3:** User select account access level  **Steo4:** User clicks the submit button | **Step 1:** User display registration pages          **Step4:** System returns user to home page |
| **Alternate Flow** | 1. At **Step4:**  If the data which was inputted does not match the required data type  2. At **Step4**:  If the data in the form is incomplete | System’s display’s error message (EM1)  System display require message (EM2) |
| **Precondition** | User must have an Admin account | |
| **Post condition** | Admin was able to create user | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC03 | |
| **Use Case Name** | User clicks About Page | |
| **Actor(s)** | Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks about page in navigation bar | **Step2:**  System displays about page |
| **Alternate Flow** | 1. At **Step4:**  If about page is broken or is not directed | System’s display’s error message (EM3) |
| **Precondition** | User must access the site | |
| **Post condition** | User was able to access about page | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC04 | |
| **Use Case Name** | User clicks Contact Page | |
| **Actor(s)** | Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks contact page in navigation bar | **Step2:**  System displays contact page |
| **Alternate Flow** | 1. At **Step4:**  If contact page is broken or is not directed | System’s display’s error message (EM3) |
| **Precondition** | User must access the site | |
| **Post condition** | User was able to access contact page | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC05 | |
| **Use Case Name** | User inquiry | |
| **Actor(s)** | Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks contact page in navigation bar    **Step3:** User enters the fields that are presented in the contact page  **Step4:** User enters given captcha | **Step2:**  System displays contact page      **Step5:** System sends the inquiry  **Step6:** System redirects |
| **Alternate Flow** | 1. At **Step3:**  If data entered is not following specific data type  **2.** At **Step4:**  If captcha entered is wrong | System’s display’s error message (EM4)  System’s display “entered wrong captcha” |
| **Precondition** | User must access the site | |
| **Post condition** | User is able to send inquiry | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC06 | |
| **Use Case Name** | User clicks Service Report Page | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks on service report page | **Step2:**  System displays service report page |
| **Alternate Flow** | 1. At **Step1:**  If user is not logged in | System’s displays error message (EM5) |
| **Precondition** | User must have an account | |
| **Post condition** | User was able to access service report page | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC07 | |
| **Use Case Name** | User clicks Weather Station Page | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Weather Station page link on navigation bar | **Step2:**  System displays weather station page |
| **Alternate Flow** | 1. At **Step1:**  If user is not logged in | System’s displays error message (EM5) |
| **Precondition** | User must have an account | |
| **Post condition** | User was able to access weather station page | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC08 | |
| **Use Case Name** | User clicks Privilege Management Page | |
| **Actor(s)** | Admin | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Privilege Management page | **Step2:**  System displays Privilege Management page |
| **Alternate Flow** | 1. At **Step1:**  If user is not logged in | System’s displays error message (EM5) |
| **Precondition** | User must have an account | |
| **Post condition** | User was able to access privilege management page | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC09 | |
| **Use Case Name** | User clicks Event Calendar | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Event Calendar page | **Step2:**  System displays Event Calendar page |
| **Alternate Flow** | 1. At **Step1:**  If user is not logged in | System’s displays error message (EM5) |
| **Precondition** | User must have an account | |
| **Post condition** | User was able to access event calendar page | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC10 | |
| **Use Case Name** | User creates Service Report | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Service Report page  **Step3:** User enters the data fields  **Step4:** User pushes submit button | **Step2:**  System displays Service Report page      **Step5:** System submits created record to database |
| **Alternate Flow** | 1. At **Step1:**  If Service Report page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in  3. At **Step3:**  If user enters wrong data in fields  4. At **Step4:**  If user pushes submit button with missing fields | System’s displays error message (EM3)  System’s displays error message (EM5)  System’s display’s error message (EM4)  System display require message (EM2) |
| **Precondition** | User must have an account | |
| **Post condition** | User was able to access Service Report page | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC11 | |
| **Use Case Name** | User searches for a Service Report | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Service Report page  **Step3:** User enters keyword for search query | **Step2:**  System displays Service Report page    **Step4:** System displays record(s) that contains the specific keyword |
| **Alternate Flow** | 1. At **Step1:**  If Service Report page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in  3. At **Step3:**  If user entered keyword does not contain in any record that exist | System’s displays error message (EM3)  System’s displays error message (EM5)  System doesn’t display any record |
| **Precondition** | User must have an account | |
| **Post condition** | User was able to access service report page; User was able to determine if record does exist or not; User is presented with a record with the specific keyword in it | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC12 | |
| **Use Case Name** | User views Service Report | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Service Report page  **Step3:** User select specific record to view | **Step2:**  System displays Service Report page    **Step4:** System displays record |
| **Alternate Flow** | 1. At **Step1:**  If Service Report page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in | System’s displays error message (EM3)  System’s displays error message (EM5) |
| **Precondition** | User must have an account | |
| **Post condition** | User was able to access service report page; User is able to view specific record | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC13 | |
| **Use Case Name** | User update Service Report | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Service Report page  **Step3:** User select specific record to update  **Step5:** User updates the record with the given fields to edit  **Step6:** User pushes submit button | **Step2:**  System displays Service Report page    **Step4:** System displays record  **Step7:** System updates the record |
| **Alternate Flow** | 1. At **Step1:**  If Service Report page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in  3. At **Step5:**  If user enters wrong data in fields  4. At **Step6:**  If user pushes submit button with missing fields | System’s displays error message (EM3)  System’s displays error message (EM5)  System’s display’s error message (EM4)  System display require message (EM2) |
| **Precondition** | User must have an account; User must have sufficient privilege to update records | |
| **Post condition** | User was able to access service report page; User is able to update specific record | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC14 | |
| **Use Case Name** | User delete Service Report | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Service Report page  **Step3:** User select specific record to delete  **Step5:** User selects to delete record  **If user selects to delete record:**  **If user selects not to delete record:** | **Step2:**  System displays Service Report page    **Step4:** System displays confirmation box  **Step6:** System deletes the record  **Step6:** System directs user back to Service report page |
| **Alternate Flow** | 1. At **Step1:**  If Service Report page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in | System’s displays error message (EM3)  System’s displays error message (EM5) |
| **Precondition** | User must have an account; User must have sufficient privilege to delete records | |
| **Post condition** | User was able to access service report page; User is able to delete specific record | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC15 | |
| **Use Case Name** | User creates Weather Station | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Weather Station page  **Step3:** User enters the data fields  **Step4:** User pushes submit button | **Step2:**  System displays Weather Station page      **Step5:** System submits created record to database |
| **Alternate Flow** | 1. At **Step1:**  If Weather Station page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in  3. At **Step3:**  If user enters wrong data in fields  4. At **Step4:**  If user pushes submit button with missing fields | System’s displays error message (EM3)  System’s displays error message (EM5)  System’s display’s error message (EM4)  System display require message (EM2) |
| **Precondition** | User must have an account; User must have privilege to create record | |
| **Post condition** | User was able to access weather station page; User was able to create record; | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC16 | |
| **Use Case Name** | User searches for a Weather Station | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Weather Station page  **Step3:** User enters keyword for search query | **Step2:**  System displays Weather Station page    **Step4:** System displays record(s) that contains the specific keyword |
| **Alternate Flow** | 1. At **Step1:**  If Weather Station page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in  3. At **Step3:**  If user entered keyword does not contain in any record that exist | System’s displays error message (EM3)  System’s displays error message (EM5)  System doesn’t display any record |
| **Precondition** | User must have an account | |
| **Post condition** | User was able to access Weather Station page; User was able to determine if record does exist or not; User is presented with a record with the specific keyword in it | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC17 | |
| **Use Case Name** | User views Weather Station | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Weather Station page  **Step3:** User select specific record to view | **Step2:**  System displays Weather Station page    **Step4:** System displays record |
| **Alternate Flow** | 1. At **Step1:**  If Weather Station page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in | System’s displays error message (EM3)  System’s displays error message (EM5) |
| **Precondition** | User must have an account | |
| **Post condition** | User was able to access Weather Station page; User is able to view specific record | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC18 | |
| **Use Case Name** | User update Weather Station | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Weather Station page  **Step3:** User select specific record to update  **Step5:** User updates the record with the given fields to edit  **Step6:** User pushes submit button | **Step2:**  System displays Weather Station page    **Step4:** System displays record  **Step7:** System updates the record |
| **Alternate Flow** | 1. At **Step1:**  If Weather Station page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in  3. At **Step5:**  If user enters wrong data in fields  4. At **Step6:**  If user pushes submit button with missing fields | System’s displays error message (EM3)  System’s displays error message (EM5)  System’s display’s error message (EM4)  System display require message (EM2) |
| **Precondition** | User must have an account; User must have sufficient privilege to update records | |
| **Post condition** | User was able to access Weather Station page; User is able to update specific record | |

|  |  |  |
| --- | --- | --- |
| **Use Case Number** | UC14 | |
| **Use Case Name** | User delete Weather Station | |
| **Actor(s)** | Admin, Technician | |
| **Basic Flow** | Actor Action | System Response |
| **Step1:** User clicks Weather Station page  **Step3:** User select specific record to delete  **Step5:** User selects to delete record  **If user selects to delete record:**  **If user selects not to delete record:** | **Step2:**  System displays Weather Station page    **Step4:** System displays confirmation box  **Step6:** System deletes the record  **Step6:** System directs user back to Weather Station page |
| **Alternate Flow** | 1. At **Step1:**  If Weather Station page doesn’t show or if it is broken  2. At **Step1:**  If user is not logged in | System’s displays error message (EM3)  System’s displays error message (EM5) |
| **Precondition** | User must have an account; User must have sufficient privilege to delete records | |
| **Post condition** | User was able to access Weather Station page; User is able to delete specific record | |
|  |  | |