**Major User Views**

|  |  |  |
| --- | --- | --- |
|  | Student | Professor |
| State ID |  |  |
| University ID |  | X |
| State name | X | X |
| Campus ID |  | X |
| Class ID | X | X |
| Professor ID |  | X |
| Campus name | X | X |
| Professor name | X | X |
| University name | X | X |
| Semester no. | X | X |
| Student ID | X |  |
| Class name | X | X |
| Location name | X | X |
| Soil type | X |  |
| Data ID | X |  |
| Reaction | X |  |
| Electrical output | X |  |

**Use Cases**

**Student**

Insert

1. Student can add new data log
2. Student will name data log
3. Student will enter recorded electrical output of microorganism
4. Student will enter recorded reaction of microorganism
5. Student will save inputted information
6. A data ID will be generated

Delete

1. Student will click on data log they wish to delete
2. Student will be prompted to confirm deletion
3. Student will then delete data log if they confirm

Update

1. Student will choose which data log they wish to update
2. Student can then change electrical output and/or reaction of microorganism
3. Student will then confirm update

Search by Location

1. Student will be prompted to enter a location
2. If the location exist, user will be given data logs pertaining to that location

Search by Electrical Output

1. Student will be prompted to enter a range of values for a electrical output
2. If it exists, the user will be given data logs with the entered electrical output values

Search by Reaction

1. Student will be prompted to enter keyword for reaction of microorganism
2. Student will then be given list of data logs with containing that reaction keyword

Search by Semester

1. Student will be prompted to enter year of semester
2. Student will be given semesters pertaining to entered year

Search by Type of Land

1. Student will be prompted to enter type of land
2. Student will be given list of types of land entered by user

Search by Student ID

1. Student will enter student ID
2. If valid, data logs entered by that student ID will be displayed

Search by Campus

1. Student will enter name of campus
2. List of data logs located in that campus will be returned

Search by Soil type

1. Student will enter name of soil
2. Data logs that contain entered soil will be returned

**Professor**

Insert

1. Professor can add new Class ID
2. Professor will name new class
3. Professor will confirm creation

Delete

1. Professor will click on class
2. Professor will be prompted to confirm deletion
3. Professor will then delete class if they confirm

Update

1. Professor will choose which class to update
2. Professor can then change the name of the class
3. Professor will then confirm update