|  |  |
| --- | --- |
| CLIENT | Dagma |
| USER | Dagma employees |
| FUNCTIONAL REQUIREMENTS | R1. Register a wetland  R2. Register a species  R3. Register an event  R4.Show the amount of maintenance for wetland  R5.Show the wetland with fewer flora species  R6.Show the wetland with most animal species  R7.Show the wetlands that contains certain species  R8. Show wetlands information |
| PROBLEM | The client needs a program to gather the wetlands located in Cali, with their general information, species that live there and events hosted. |



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| NAME | R1. Register a wetland | | |
| SUMMARY | Wetlands can be registered with their general information | | |
| INPUTS | Name | Type | Selection condition |
| name | String | If the “Register wetland” option is selected |
| location | String |
| area | int |
| photoUrl | String |
| protectedArea | int |
| locationName | String |
| managementPlan | double |
| RESULT | Wetland is created and registered in the archive | | |
| OUTPUTS | Name | Type | Selection condition |
| Confirmation of registration | String | If the registration was successful |



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| NAME | R2. Register a species | | |
| SUMMARY | Species can be registered with their general information | | |
| INPUTS | Name | Type | Selection condition |
| name | String | If the “Register species” option is selected and at least one wetland is registered |
| scientificName | String |
| type | int |
| migratory | int |
| wetlandName | String |
| RESULT | Species is created and add to a wetland | | |
| OUTPUTS | Name | Type | Selection condition |
| Confirmation of registration | String | If the registration was successful |

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| NAME | R3. Register an event | | |
| SUMMARY | Events can be registered with their general information | | |
| INPUTS | Name | Type | Selection condition |
| type | int | If the “Register event” option is selected and at least one wetland is registered |
| description | String |
| day | int |
| month | int |
| year | int |
|  | clientName | String |  |
|  | price | double |  |
|  | wetlandName | String |  |
| RESULT | Event is created and add to a wetland | | |
| OUTPUTS | Name | Type | Selection condition |
| Confirmation of registration | String | If the registration was successful |

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| NAME | R4. Show the amount of maintenance for wetland | | |
| SUMMARY | The amount of maintenance of each wetland can be consulted typing its name | | |
| INPUTS | Name | Type | Selection condition |
| wetlandName | String | If the “Show maintenance” option is selected and at least one wetland is registered |
| RESULT | The number of maintenance is shown on the screen | | |
| OUTPUTS | Name | Type | Selection condition |
| Requested information | String | If the typed wetland exits |

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| NAME | R5. Show the wetland with fewer flora species | | |
| SUMMARY | The name of the wetland with fewer species of flora registered can be consulted | | |
| INPUTS | Name | Type | Selection condition |
|  |  |  |
| RESULT | The name of the wetland with fewer flora species is shown on the screen | | |
| OUTPUTS | Name | Type | Selection condition |
| Requested information | String | If at least one wetland and one flora species is registered |

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| --- | --- | --- | --- |
| NAME | R6. Show the wetland with most animal species | | |
| SUMMARY | The name of the wetland with most species of animals registered can be consulted | | |
| INPUTS | Name | Type | Selection condition |
|  |  |  |
| RESULT | The name of the wetland with most animal species is shown on the screen | | |
| OUTPUTS | Name | Type | Selection condition |
| Requested information | String | If at least one wetland and one animal species is registered |

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| NAME | R7. Show the wetlands that contains certain species | | |
| SUMMARY | The name of the wetland/s where certain species can be found can be consulted | | |
| INPUTS | Name | Type | Selection condition |
| speciesName | String | If the “Show the wetlands that contains species ” option is selected and at least one wetland and one species is registered |
| RESULT | The name of the wetland/s where the species can be found is shown on the screen | | |
| OUTPUTS | Name | Type | Selection condition |
| Requested information | String | If the typed species exists |

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| --- | --- | --- | --- |
| NAME | R8. Show wetlands information | | |
| SUMMARY | The name and general information of the registered wetlands can be consulted | | |
| INPUTS | Name | Type | Selection condition |
|  |  |  |
| RESULT | The name and general information of the wetland is shown | | |
| OUTPUTS | Name | Type | Selection condition |
| Requested information | String | If at least one wetland is registered |