**Dylan Bermudez Cardona – A00381287**

**Traceablity**

|  |  |  |
| --- | --- | --- |
| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **RF1**  Register a wetland. | WetlandManager | showMainMenu() |
| WetlandManager | administrateWetlands() |
| WetlandManager | registerWetland() |
| WetlandController | registerWetland(…) |
| Wetland | Wetland(…) |

|  |  |  |
| --- | --- | --- |
| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **RF2**  Register a species in a wetland. | WetlandManager | showMainMenu() |
| WetlandManager | administrateWetlands() |
| WetlandManager | registerSpeciesInWetland() |
| WetlandController | registerSpeciesInWetland(…) |
| Wetland | registerSpecies(…) |
|  | Species | Species(…) |
|  | Object | toUpperCase() |

|  |  |  |
| --- | --- | --- |
| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **RF3**  Register an event in a wetland. | WetlandManager | showMainMenu() |
| WetlandManager | administrateWetlands() |
| WetlandManager | registerEventsInWetland() |
| WetlandController | showWetlands() |
| WetlandController | registerEventInWetland(…) |
| Wetland | registerEvent(…) |
|  | Event | Event(…) |
|  | Object | toUpperCase() |

|  |  |  |
| --- | --- | --- |
| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **RF4**  Show, for each wetland, the number of maintenances in a specific year. | WetlandManager | showMainMenu() |
| WetlandManager | seeInformationOfWetlands() |
| WetlandManager | amountOfMaintenancesOfAllWetlandsInAYear() |
| WetlandController | amountOfMaintenancesOfAllWetlandsInAYear() |
| Wetland | getName() |
|  | Wetland | calculateAmountOfMaintenancesInAYear(…) |
|  | Event | getType() |
|  | Event | getYearEvent() |
|  | Date | getYear() |

|  |  |  |
| --- | --- | --- |
| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **RF5**  Show the information of all the wetlands registered. | WetlandManager | showMainMenu() |
| WetlandManager | seeInformationOfWetlands() |
| WetlandManager | showWetlandsInfo() |
| WetlandController | showWetlandsInfo() |
| Wetland | getId() |
|  | Wetland | toString() |
|  | Wetland | totalLandFlora() |
|  | Wetland | totalAquaticFlora() |
|  | Wetland | totalBirds() |
|  | Wetland | totalMammal() |
|  | Wetland | totalAquatic() |
|  | Event | toString() |

|  |  |  |
| --- | --- | --- |
| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **RF6**  Show the wetland with the least flora species. | WetlandManager | showMainMenu() |
| WetlandManager | seeInformationOfWetlands() |
| WetlandManager | wetlandLessFlora() |
| WetlandController | wetlandLessFlora() |
| Wetland | calculateTotalFlora() |
|  | Species | getFaunaOrFlora() |
|  | Wetland | getName() |

|  |  |  |
| --- | --- | --- |
| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **RF7**  Show the wetland with the most fauna species. | WetlandManager | showMainMenu() |
| WetlandManager | seeInformationOfWetlands() |
| WetlandManager | wetlandMostFauna() |
| WetlandController | wetlandMostFauna() |
| Wetland | calculateTotalFauna() |
|  | Species | getFaunaOrFlora() |
|  | Wetland | getName() |

|  |  |  |
| --- | --- | --- |
| **Requerimiento Funcional** | **Nombre de la Clase** | **Nombre del método** |
| **RF8**  According to the name of a species, show in which wetlands it is present. | WetlandManager | showMainMenu() |
| WetlandManager | seeInformationOfWetlands() |
| WetlandManager | whereWetlandSpecies() |
| WetlandController | whereWetlandSpecies(…) |
| Wetland | totalLandFlora() |
|  | Wetland | totalAquaticFlora() |
|  | Wetland | totalBirds() |
|  | Wetland | totalMammal() |
|  | Wetland | totalAquatic() |
|  | Species | getType() |
|  | Wetland | getName() |