1 – Add Site

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| **USE CASE NAME:** | Add Site | **USE CASE TYPE** |
| **USE CASE ID:** | 1 | **Design Requirements 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Site Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the sites administrator to add a site’s details. | |
| **PRE-CONDITIONS:** | The sites administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The sites administrator selects the “Add Site” function.  Step 2: The system displays the “Add Site” form.  Step 3: The system gets all sites.  Step 4: The sites administrator enters the site name, area, altitude, site type, and status.  Step 5: The sites administrator clicks on the “Add Site” button.  Step 6: The system validates the data to confirm that all necessary fields are filled correctly.  Step 7: The system generates a new site ID.  Step 8: The system saves the site’s details (site name, area, altitude, site type, and status).  Step 9: The system displays the “Site added successfully” message.  Step 10: The sites administrator clicks on the “Return” button.  Step 11: The system closes the form to end use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step5a.1: The sites administrator clicks on the “Return” button.  Step5a.2: the System goes to step 11 | |
| Step 7a.1: The system identifies any missing or incorrect fields and prompts for the completion of all fields.  Step 7a.2: The system returns to step 4. | |
| **POST CONDITIONS:** | None. | |
| **ASSUMPTIONS:** | None. | |

2 – Update Site

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| **USE CASE NAME:** | Update Site | **USE CASE TYPE** |
| **USE CASE ID:** | 2 | **Design Requirements 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Site Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the sites administrator to update a selected site’s details. | |
| **PRE-CONDITIONS:** | The sites administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The sites administrator selects the “Update Site” function.  Step 2: The system displays the “Update Site” form.  Step 3: The system gets all of the sites.  Step 4: The system displays a list of all the sites (site id and site name) in a list box.  Step 5: The sites administrator selects the site whose details need updating.  Step 6: The system displays the site’s details (site id, site name, area, altitude, site type, and status).  Step 7: The sites administrator updates the relevant details (site name, area, altitude, site type, and status only).  Step 8: The sites administrator clicks on the “Update Site” button.  Step 9: The system validates the entries in the fields.  Step 10: The system asks for confirmation to change the site’s details.  Step 11: The sites administrator clicks on the “Yes” button.  Step 12: The system saves the site’s details.  Step 13: The system displays the “Site updated successfully” message.  Step 14: The sites administrator clicks on the “Return” button  Step 15: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 5a.1: The sites administrator clicks on the “Return” button.  Step 5a.2: The system goes to step 15. | |
| Step 9a.1: The system identifies missing or incorrect fields and prompts for completion of the entry.  Step 9a.2: The system returns to step 7. | |
| Step 11a.1: The sites administrator clicks on the “No” button.  Step 11a.2: The system goes to step 2. | |
| **POST CONDITIONS:** | None. | |
| **ASSUMPTIONS:** | None. | |

3 – Delete Site

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| **USE CASE NAME:** | Delete Site | **USE CASE TYPE** |
| **USE CASE ID:** | 3 | **Design Requirements 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Site Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the sites administrator to delete a selected site’s details. | |
| **PRE-CONDITIONS:** | The sites administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The sites administrator selects the “Delete Site” function.  Step 2: The system displays the “Delete Site” form.  Step 3: The system gets all of the sites that have no site habitats.  Step 4: The system displays a list all the sites (site id and site name) that have no site habitats in a list box.  Step 5: The sites administrator selects the site who requires deleting  Step 6: The system gets the details of the selected site.  Step 7: The system displays the site’s details (site id, site name, site type, and status).  Step 8: The sites administrator clicks on the “Delete Site” button.  Step 9: The system asks for confirmation to change the site.  Step 10: The sites administrator clicks on the “Yes” button.  Step 11: The system deletes the site.  Step 12: The system displays the “Site deleted successfully” message.  Step 13: The sites administrator clicks on the “Return” button  Step 14: The system closes the form to end the use case | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 4a.1: The sites administrator clicks on the “Return” button.  Step 4a.2: The system goes to step 14. | |
| Step 6a.1: The sites administrator clicks on the “Return” button.  Step 6a.2: The system goes to step 14. | |
| Step 10a.1: The sites administrator clicks on the “No” button  Step 10a.2: The system returns to step 2. | |
| **POST CONDITIONS:** | None. | |
| **ASSUMPTIONS:** | None. | |

4 – Produce Sites Report

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| **USE CASE NAME:** | Produce Sites Report | **USE CASE TYPE** |
| **USE CASE ID:** | 4 | **Design Requirements 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Site Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the sites administrator to produce the sites report. | |
| **PRE-CONDITIONS:** | The sites administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The sites administrator selects the “Produce Sites Report” function.  Step 2: The system displays the “Sites Report” form.  Step 3: The sites administrator clicks on the “Display Report” button.  Step 4: The system gets the details (site id, site name, area, altitude, site type, and status) of each site.  Step 5: The system gets the details (site habitat id, site habitat name, and habitat description) of each site habitat for each site.  Step 6: The system then displays the sites report (site id, site name, area, altitude, site type, and status and site habitat id, site habitat name, and habitat description of each sites’ site habitats) sorted by site habitat name within site name.  Step 7: The sites administrator clicks on the “Return” button.  Step 8: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 3a.1: The sites administrator clicks on the “Return” button.  Step 3a.2: The system goes to step 8. | |
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| **POST CONDITIONS:** | None. | |
| **ASSUMPTIONS:** | None. | |

5 – Assign Land Use

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| **USE CASE NAME:** | Assign Land Use | **USE CASE TYPE** |
| **USE CASE ID:** | 25 | **Design Requirements 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Site Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the sites administrator to assign a land use to a selected site habitat. | |
| **PRE-CONDITIONS:** | The sites administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The sites administrator selects the “Assign Land Use” function.  Step 2: The system displays the “Assign Land Use” form.  Step 3: The system gets all the site habitats.  Step 4: The system displays a list of all site habitats (site habitat id and site habitat name) in a list box.  Step 5: The sites administrator selects the site habitat to which the land use is to be assigned.  Step 6: The system gets the selected site habitat’s details.  Step 7: The system displays the site habitat’s details (site habitat id, site habitat name, site status, and site name).  Step 8: The system gets the land uses already assigned to the selected site habitat.  Step 9: The system displays a list of the land uses (land use id, land use description, and impact) already assigned to the selected site habitat in a list box.  Step 10: The system gets all land use types  Step 11: The system displays a list of all land use types (land use id and land use description) in a list box.  Step 12: The sites administrator selects a land use.  Step 13: The sites administrator enters an impact (high, medium or low) from a drop box.  Step 14: The sites administrator clicks on the “Assign Land Use” button.  Step 15: The system validates the entered data.  Step 16: The system saves the site habitat land use details (site habitat id, land use id, and impact).  Step 17: The system displays the “Land use assigned successfully” message.  Step 18: The sites administrator clicks on the “Return” button  Step 19: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 5a.1: The sites administrator clicks on the “Return” button.  Step 5a.2: The system goes to step 19. | |
| Step 14a.1: The sites administrator clicks on the “Return” button.  Step 14a.2: The system goes to step 19. | |
| Step 16a.1: The system generates the error message “The land use is already assigned to the site habitat”  Step 16a.2: The system returns to step 12. | |
| **POST CONDITIONS:** | None. | |
| **ASSUMPTIONS:** |  | |

6 – Remove Land Use

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| **USE CASE NAME:** | Remove Land Use | **USE CASE TYPE** |
| **USE CASE ID:** | 26 | **Design Requirements 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Site Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the sites administrator to remove a land use from a selected site habitat. | |
| **PRE-CONDITIONS:** | The sites administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The sites administrator selects the “Remove Land use” function.  Step 2: The system displays the “Remove Land use” form.  Step 3: The system gets all the site habitats with land uses assigned.  Step 4: The system displays a list of all the site habitats (site habitat id and site habitat name) that have land uses assigned in a list box.  Step 5: The sites administrator selects a site habitat.  Step 6: The system gets the selected site habitat’s details.  Step 7: The system displays the site habitat’s details (site habitat id, site habitat name, site status, and site name).  Step 8: The system gets the land uses already assigned to the selected site habitat.  Step 9: The system displays a list of the land uses (land use id, land use description, and impact) assigned to the selected site habitat in a list box.  Step 10: The sites administrator selects a land use.  Step 11: The sites administrator clicks on the “Remove Land use” button.  Step 12: The system deletes the site habitat land use details.  Step 13: The system displays the message “Land use removed successfully”.  Step 14: The sites administrator clicks on the “Return” button  Step 15: The system closes the form to end the use case | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 7a: The sites administrator clicks on the “Return” button.  Step 7b: The system goes to step 15. | |
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| **POST CONDITIONS:** | None. | |
| **ASSUMPTIONS:** | None. | |

7 – Update Land Use

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| **USE CASE NAME:** | Update Land Use | **USE CASE TYPE** |
| **USE CASE ID:** | 28 | **Design Requirements 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Site Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the sites administrator to update a selected land uses details. | |
| **PRE-CONDITIONS:** | The sites administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The sites administrator selects the “Update Land Use” function.  Step 2: The system displays the “Update Land Use” form.  Step 3: The system gets all the land uses.  Step 4: The system displays a list of all the land uses (land use id and land use description) in a list box.  Step 5: The sites administrator selects the land use that has details that needs updating.  Step 6: The system gets the selected Land use details.  Step 7: The system displays the land use’s details (land use id, land use description, and land use type).  Step 8: The sites administrator updates the relevant details (land use description and land use type only).  Step 9: The sites administrator clicks on the “Update Land Use” button.  Step 10: The system validates entered data.  Step 11: The system prompts for confirmation to change the land uses details. Step 12: The sites administrator clicks on the “Yes” button.  Step 13: The system saves the land use’s details.  Step 14: The system displays the “Land Use updated successfully” message.  Step 15: The sites administrator clicks on the “Return” button  Step 16: The system closes the form to end the use case. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 5a.1: The sites administrator clicks on the “Return” button.  Step 5a.2: The system goes to step 16. | |
| Step 11a.1: The system validates the entries in the fields and identifies missing or incorrect fields and prompts for completion of the entry.  Step 11a.2: The system returns to step 8. | |
| Step 12a.1: The sites administrator clicks on the “No” button.  Step 12a.2: The system goes to step 2. | |
| **POST CONDITIONS:** | None. | |
| **ASSUMPTIONS:** | None. | |

8 – Produce Land Uses Report

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| **USE CASE NAME:** | Produce Land Uses Report | **USE CASE TYPE** |
| **USE CASE ID:** | 30 | **Design Requirements 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Site Administrator | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case enables the sites administrator to produce the land uses report. | |
| **PRE-CONDITIONS:** | The sites administrator has logged onto the system | |
| **TYPICAL COURSE** | Step 1: The sites administrator selects the “Produce Land Uses Report” function.  Step 2: The system displays the “Land Uses Report” form.  Step 3: The sites administrator clicks on the “Display Report” button.  Step 4: The system gets the details (land use id, land use description, and land use type) of each land use.  Step 5: The system gets the details (site habitat id, site habitat name, and impact) of each site habitat land use for each land use.  Step 6: The system then displays the sites report (land use id, land use description, and land use type and site habitat id, site habitat name, and impact of each land uses site habitat land uses) sorted by site habitat name within land use description.  Step 7: The sites administrator clicks on the “Return” button.  Step 8: The system closes the form to end the use case | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | Step 3a.1: The sites administrator clicks on the “Return” button.  Step 3a.2: The system returns to step 8. | |
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| **POST CONDITIONS:** | None. | |
| **ASSUMPTIONS:** | None. | |