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| Use Case Name: DCO Account Registration |
| Point of Contact Name: Patrick West |

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| **Use Case Name**  *Give a short descriptive name for the use case to serve as a unique identifier. Consider goal-driven use case name.*  DCO User Register For New DCO Account |
| **Goal**  *The goal briefly describes what the user intends to achieve with this use case.*  For a user to register for, and that registration be acted upon by administrators, a new account by registering with the DCO Portal. |
| **Summary**  *Give a summary of the use case to capture the essence of the use case (no longer than a page). It provides a quick overview and includes the goal and principal actor.*  A user is browsing the Deep Carbon Observatory site and wishes to register for a new account in order to participate in the community. Alternatively, a user is sent a link to register for an account with the Deep Carbon Observatory. The basic use case is that the user registers for an account. We’ve added on additional information to inform the user of the different steps needed for that registration to be accepted. |
| **Actors**  *List actors, people or things outside the system that either acts on the system (primary actors) or is acted on by the system (secondary actors). Primary actors are ones that invoke the use case and benefit from the result. Identify sensors, models, portals and relevant data resources. Identify the primary actor and briefly describe role.*  User – someone who wishes to participate in the DCO community so requires an account  System – the Deep Carbon Observatory system |
| **Preconditions**  *Here we state any assumptions about the state of the system that must be met for the trigger (below) to initiate the use case. Any assumptions about other systems can also be stated here, for example, weather conditions. List all preconditions.*  DCO Community and Information portal is up and available. |
| **Triggers**  *Here we describe in detail the event or events that brings about the execution of this use case. Triggers can be external, temporal, or internal. They can be single events or when a set of conditions are met, List all triggers and relationships.*  User wishes to register for an account in the DCO Portal |
| **Basic Flow**  *Often referred to as the primary scenario or course of events. In the basic flow we describe the flow that would be followed if the use case where to follow its main plot from start to end. Error states or alternate states that might be highlighted are not included here. This gives any browser of the document a quick view of how the system will work. Here the flow can be documented as a list, a conversation or as a story.(as much as required)*   1. User visits the DCO web accessible systems 2. User clicks the LOGIN link in order to register 3. User is taken to the login page where there is a link to register 4. User clicks on the link to register 5. User is taken to a registration page where they fill in the required fields and clicks Submit 6. User receives an email with a link to click on to confirm their request 7. User clicks on the link to confirm their account request 8. User is notified that their request has been received and will be acted on by an administrator 9. User receives a confirmation that their registration has been accepted with information on how to continue |
| ***Alternate Flow***  *Here we give any alternate flows that might occur. May include flows that involve error conditions. Or flows that fall outside of the basic flow.*   1. Rather then receiving an email confirming that their account has been accepted the user receives an email letting them know that their request has been denied |
| **Post Conditions**  *Here we give any conditions that will be true of the state of the system after the use case has been completed.*  User is able to login to both any of the systems provided by DCO |
| ***Activity Diagram***  *Here a diagram is given to show the flow of events that surrounds the use case. It might be that text is a more useful way of describing the use case. However often a picture speaks a 1000 words.*  Macintosh HD:Users:westp:Downloads:DCO-UC1-ActivityDiagram - New Page.jpeg |
| **Notes**  *There is always some piece of information that is required that has no other place to go. This is the place for that information.*  User’s information is stored in a secure location which allows access to only administrators. |

***Resources***

*In order to support the capabilities described in this Use Case, a set of resources must be available and/or configured. These resources include data and services, and the systems that offer them. This section will call out examples of these resources.*

**Data:**

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| --- | --- | --- | --- | --- | --- |
| Data | Type | Characteristics | Description | Owner | Source System |
| (dataset name) | Remote,  In situ,  Etc. | e.g. – no cloud cover | Short description of the dataset, possibly including rationale of the usage characteristics | USGS, ESA, etc. | Name of the system which supports discovery and access |
| User Information | In situ | Text-based | Information provided by user to assist admins in accepting or denying user’s registration request. | User | DCO |

**Modeling Services**

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| --- | --- | --- | --- | --- | --- |
| Model | Owner | Description | Consumes | Frequency | Source System |
| (model name) | Organization that offers the model | Short description of the model | List of data consumed | How often the model runs | Name of the system which offers access to the model |
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**Event Notification Services**

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| --- | --- | --- | --- | --- |
| Event | Owner | Description | Subscription | Source System |
| (Event name) | Organization that offers the event | Short description of the event | List of subscriptions (and owners) | Name of the system which offers this event |
| Confirm | System | Email notification to user to confirm they registered for account |  | DCO SSO |

**Application Services**

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| Application | Owner | Description | Source System |
| (Application name) | Organization that offers the Application | Short description of the application portal | Name of the system which offers access to this resource |
| SSO | DCO | Single Sign-On System which handles login, registration, username and password services | DCO SSO |
| Portal | DCO | Various web-based services provided by DCO such as Community Portal, Information Portal | DCO System |
| Data Store | DCO | System which stores the registration information and actions taken on it | DCO SSO |

**Other resources**

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| --- | --- | --- | --- | --- |
| Resource | Owner | Description | Availability | Source System |
| (sensor name) | Organization that owns/ manages resource | Short description of the resource | How often the resource is available | Name of system which provides resource |
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