

GreenPrints Artefact Agreement

Team A.B.B.C.

Australian Earth Laws Alliance

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Scope Delivered

Primary Artefact

- Greenprints Extension
 - Bio-region modification
This extension focuses on isolating bioregions and sub-bioregions to the map of Australia as well as adding or modifying and restructuring information to existing bioregions and sub bioregions.
 - Drawing tool
This extension is the largest of the two necessary extensions to the functionality of GreenPrints. The drawing tool refers to the ability of the user to physically isolate a region (parent or sub-bioregion) and draw on it in order for them to accurately show what the plan for the area will look like if it comes to fruition while working towards jurisprudence

Secondary Artefacts

Databases/ development platform

- Administrator access to github

Documentation

- Handover agreement
- Overall technical report
- User guides (tutorial documentation)
 - Adding/ updating Bioregion/ Sub-Bioregion information
 - How to use the drawing tool

Optional Artefacts

- New datasets and layers added to GreenPrints Map.
This extension will use datasets online that will be imported into the map and user's will be able to select and filter land use and history of land use layers regarding bioregions and sub-bioregions.
- An information session with AECLA on how to import datasets themselves

Development Goals

Base System

Task ID	Task Description
T01	Add new button to user interface when a Bioregion is selected
T02	When button is clicked on all other bioregions layers grey out and the selected bioregion becomes clear
T05	Add new button to user interface when a sub-Bioregion is selected
T06	When button is clicked on all other sub-bioregions layers grey out and the selected bioregion becomes clear
T11	Add data to server with information about the specified bioregion under the bioregion title.
T15	Add data to server with information about the specified sub-bioregion under the sub-bioregion title.
T17	Implement a user interface tool that allows the user to select the currently available drawing methods on the map
T20	Implement the option to draw Vegetation on the map with polygon shapes.
T21	Implement the option to draw Agriculture on the map polygon shapes.
T22	Implement the option to draw residential/commercial and industrial developments on the map with polygonal shapes.
T26	Add a button to the drawing toolbar that allows the user to erase any of the drawn layers from the map.

Enhanced System

Task ID	Task Description
T03	Modify the isolate to allow the isolated bioregion features to still have interactable and show the required information from the server.
T07	Modify the isolate to allow the isolated sub-bioregion features to still have interactable and show the required information from the server.
T09	Modify the current data fetching function to retrieve the information about the selected bioregion
T13	Modify the current data fetching function to retrieve the information about the selected sub-bioregion and update the display box to show information relating to the sub-bioregion only.
T19	Update the system to allow the user to see a clear area of the map they have selected for further use with the drawing tool.
T25	Implement the option to draw Waterways on the map with polylines.
T23	Implement the option to draw community spaces on the map with polygonal shapes.
T24	Implement the option to draw fence lines on the map with polylines.

Stretch System

Task ID	Task Description
T04	Run tests on the isolate bioregion function and produce documents to show if the function is working correctly
T08	Run tests on the isolate sub-bioregion function and produce documents to show if the function is working correctly

T10	Produce documentation that shows how to update the server with new information about the bioregions
T12	Run tests to ensure that the correct information is shown in the info box when a bioregion is selected and produce documentation to show if the tests pass/fail
T14	Produce documentation that show how to update the server with new information about the sub-bioregions
T16	Run tests to ensure that the correct information is shown in the info box when a sub-bioregion is selected and produce documentation to show if the tests pass/fail
T18	Add a function that exports all the user drawn layers to a file they can save. Add a function that reads files and if the correct format draw the layers specified in the file.
T27	Run tests to ensure each function in the drawing tool works correctly. This includes all the drawing functions along with the save/load functionality. Test to ensure the user interface is understandable to the client and produce documentation to show which tests pass and fail.

Revision Notes

1. Client Requested that Task 25 (T25) Waterways (formally in base system) to be swapped with Task 22 (T22) residential / industrial (formally in enhanced system).