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Midterm Progress Report, ISRaD Data Downloader

Key Points
Data downloader has been prototyped. Includes basic functions of selecting wanted layers, search function, hidden dependencies, map functionality, and .csv downloader. UI improvements and additional filters may be made dependent on client response and/or preference.

Working
- Selectable User Visible Layers
- Hidden Dependencies update and display based on user input
- Hidden Dependencies are hierarchical as requested by client
- Updating Table dependant on user input
  - Working search function within generated table
- Data must be flattened before download, done without user input or display in UI
- Primary function of .csv formatting and download, dependent on user input
- Filtering dependent information in layer and fraction tables
- Basic summary statistics table based on selected information
- Interactive map featuring ISRaD data
  - Subset data based on square selection from map
  - Possibility of filtering table based on selection from map

Future Needs
- Other specifications and updates as necessary
- Other filters (analogue/non-map dependent) (dependent on geographic locations)
- Spatial selection for map is needed, summary non-operational
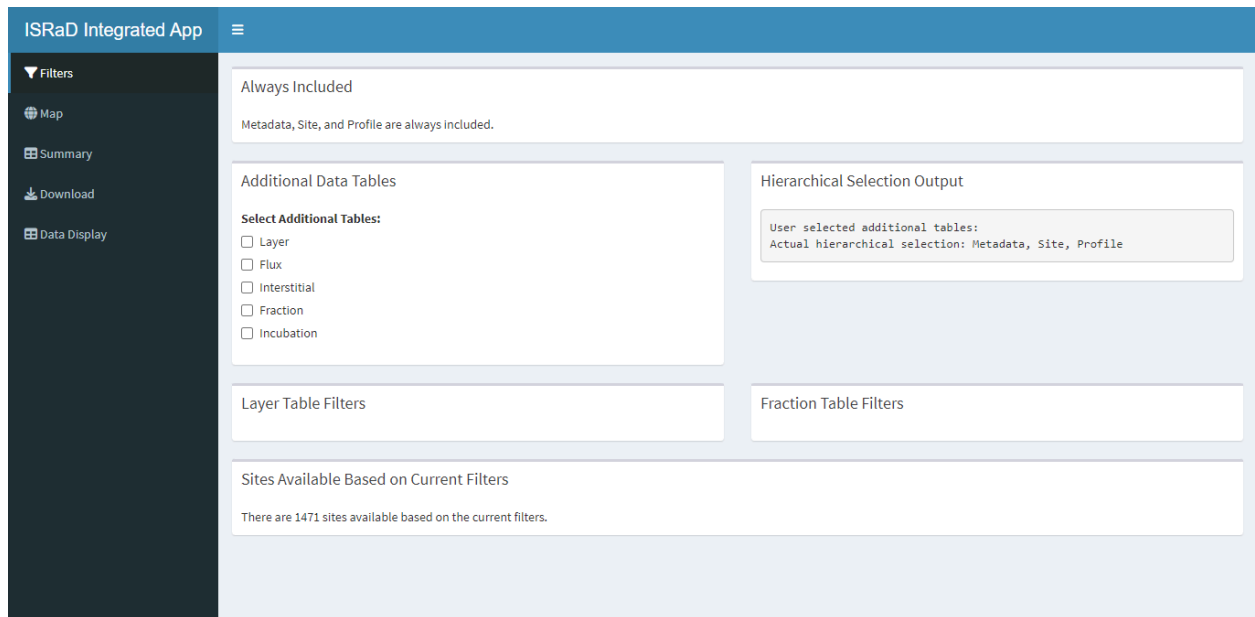- Map Functionality

Panels of App

Figure 1. - Filter panel, where users can specify the layers filters and layer subfilters to select desired data.
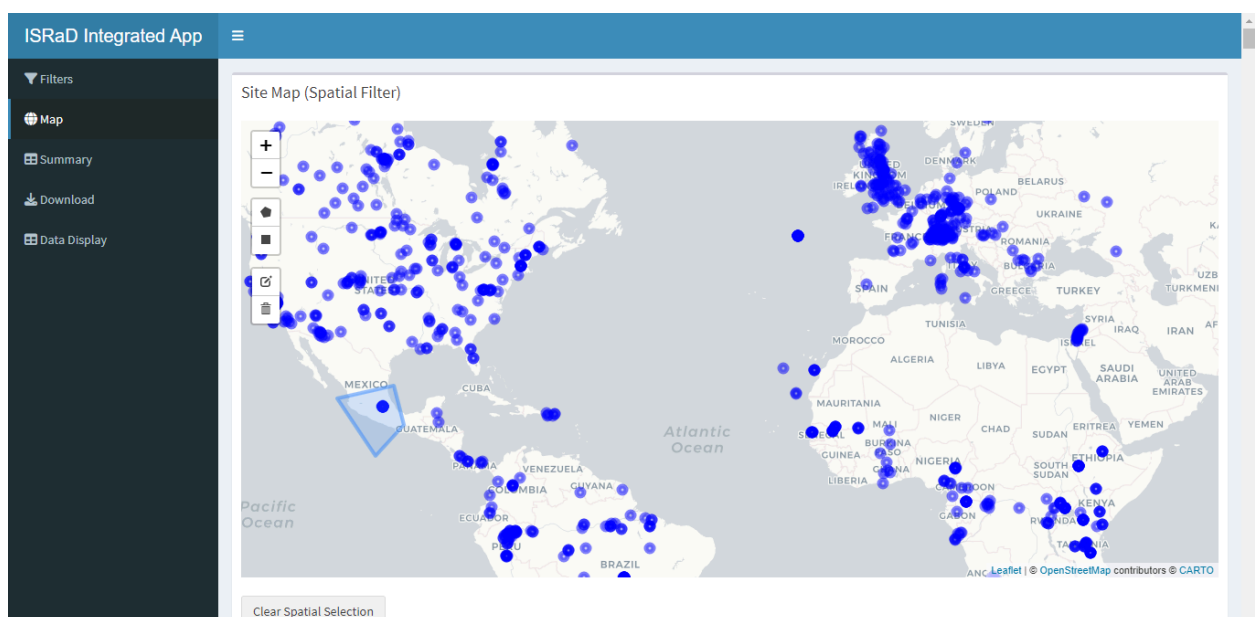
Figure 2. - Map panel, where users can view individual sites or select groups of sites based on a polygon tool.
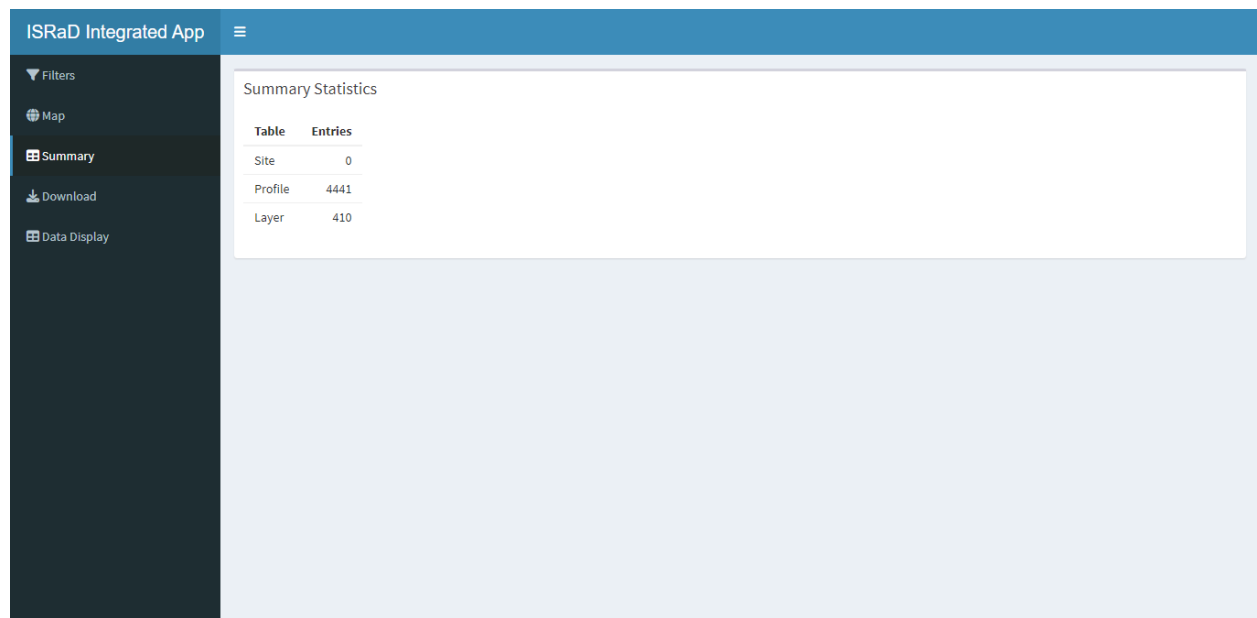

Figure 3. Summary panel, where users can find the number of entries within their selection by table.
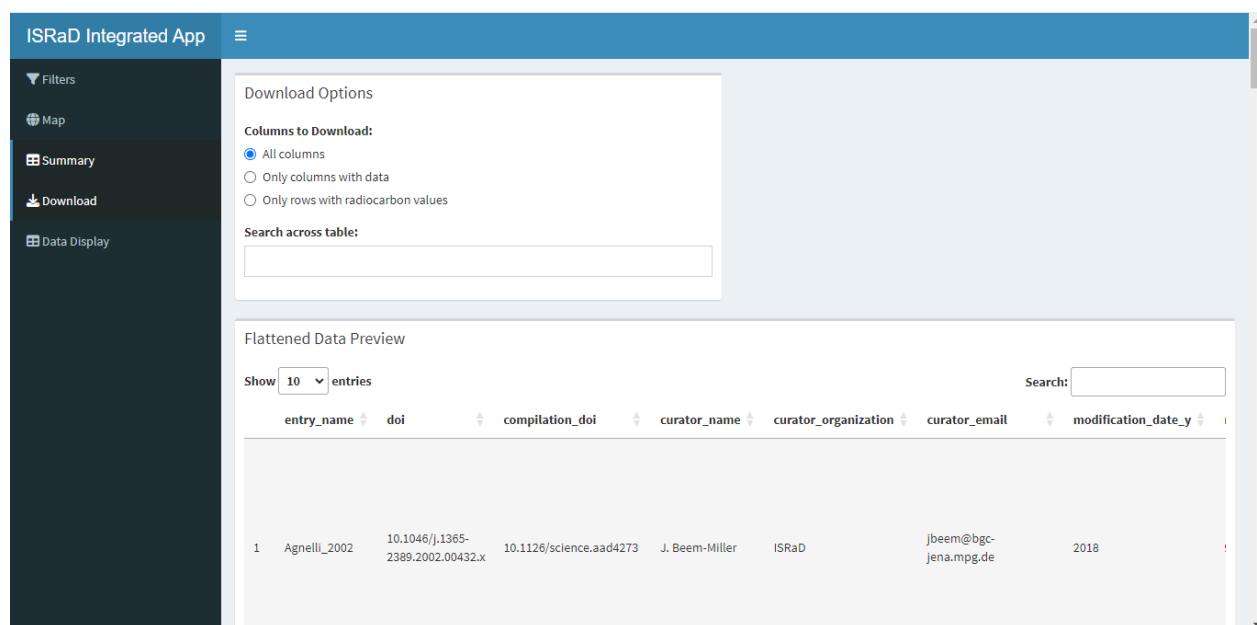

Figure 4. - Download panel, where users can filter downloads and use a search function to narrow their queries.

Figure 5. - Data Display panel, where users can view the entries they have selected and search through said entries.

No major changes needed to UI, as primary needs for the future of the project don't have necessary changes to UI, only functionality of existing assets.