

Sprintable Stories

ID Story

Acceptance Criteria

S1 As a user I want the GUI to have components that allow me to read in a data file so that I can choose a particular geographic region.

- The GUI has a menu bar.
- The GUI has a “Utilities” menu.
- The GUI has a “Read” menu item under the “Utilities” menu.
- A standard file dialog appears when the user clicks on “Read”.
- The dialog only allows the user to choose files of the appropriate type.
- The dialog allows the user to “Cancel”.
- When “Cancel” is pressed (in the dialog) the main window is displayed.
- When “Open” is pressed, the main window is displayed.
- The GUI displays of the current file in the title bar.

S2 As a user I want the GUI to have components that allow me to enter the parts of a street address individually so that I don’t have to remember a specific format.

- The GUI has a “Number” entry field.
- The GUI has a “Prefix” entry field (e.g., N, S).
- The GUI has a “Name” entry field.
- The GUI has a “Category” entry field (e.g., St, Ave).
- The GUI has a “Suffix” entry field (e.g., NW, SW).
- All of the fields are initially disabled.
- After reading a file all fields are enabled.

S3 As a user I want the GUI to have components that allow me to choose from a list of alternatives rather than type wherever possible to reduce the number of data entry errors

- The “Prefix” entry field has a list of alternatives that is consistent with the region.
- The “Category” entry field has a list



- of alternatives that is consistent with the region.
- The "Suffix" entry field has a list of alternatives that is consistent with the region.
- S4 As a user I want the GUI to have components that allows me to request that an address be geocoded so that I can enter an address in any order.
- The GUI has a "Geocode" button.
 - The "Geocode" button is initially disabled.
 - The "Geocode" button is only enabled when there are entries in the "Number", "Name", and "Category" fields.
 - The "Geocode" button starts the geocoding process.
- S5 As a user I want the GUI to have components that display the result of a particular geocoding request as text so that I can copy and paste it into other applications.
- The GUI has a text component that displays the results.
 - The text component displays the results after the geocoding process completes.
 - It is possible to copy results from the text component to the clipboard using the keyboard.
 - It is possible to copy results from the text component to the clipboard using the mouse.
- S6 As a user I want to know when a geocoding operation was unsuccessful so that I know when it has completed.
- The GUI displays a "No Results" message when a search is unsuccessful.
 - The GUI displays the longitude/latitude when a search is successful.
- S7 As a user I want to be able to geocode an address so that I can determine its longitude and latitude.
- I saw 3 tests that found an address.
 - I saw 2 tests that did not find an address.
- S8 As a user I want to be able to either search through all streets with a given name or for the single street with the given prefix, name, type and suffix so that I can get an answer even if I am unsure of some of the details.
- The GUI has menu item that lets me choose the type of search to conduct.
 - I saw 1 test that found an address.
 - I saw 1 test that did not find an address.



- S9 As a data administrator I want the system to be able to represent a street as a collection of segments each of which has two intersections so that it is consistent with the TIGER files from the U.S. Census Bureau.
- The product has a model of an intersection.
 - The product has a model of a street segment.
 - The product has a model of a street.
 - The product has a model of a street network.
 - There is a UML class diagram showing the relationships between the above.
- S10 As a data administrator I want the system to be able to read .seg and .int files so that it is interoperable with our other products.
- The product has a method that can read a street network from a .seg and .int file.

