UML Use Cases

1 Actors

1. Researcher

2 Parsing

2.1 Participating Actor

1. Researcher

2.2 Entry Conditions

- 1. The researcher has given the novel as an input to the program in a format that is supported by the program
- 2. The researcher has provided a search radius in which she wishes to find descriptors of locations

2.3 Exit Condition

1. Retrieve all the locations with their appropriate descriptors

2.4 Flow of events

- 1. Parse the novel to get the locations.
- 2. \forall locations found, use the radius provided as input to search for meaningful words that describe said location

3 Display map

3.1 Participating Actor

1. Researcher

3.2 Entry Conditions

1. Parsing exit condition has been satisfied

3.3 Exit Conditions

1. Display a map containing all of the locations that the parsing has yield

3.4 Flow of Events

- 1. \forall locations apply a reverse geolocation algorithm to compute the coordinates of said location
- 2. Use these coordinates to create labels on a map.

4 Display wordcloud

4.1 Participating Actor

1. Researcher

4.2 Entry Conditions

- 1. Display map exit condition has been satisfied
- 2. The user clicked on a label representing a location

4.3 Exit Conditions

1. Display a wordcloud depending on the label the user clicked

4.4 Flow of Events

- 1. Retrieve the list of descriptors from the parsing process
- 2. Generate a wordcloud from the descriptors
- 3. Create a bubble where the label is
- 4. Display the wordcloud in the bubble