Status of GeoSpacy

**Extraction**

* Clause based identification of Spatial Entities (GPE, LOC, RSE)
* Level 1 Extraction
  + North, South, East, West, North-East, North-West, South-East, South-West, Central (with possible synonym)
* Level 2 Extraction
  + Surrounding, border, nearby, close etc.
* Level 3 Extraction
  + Distance from Spatial entity (30 km, 30 kilometers, 10 miles, 10 mi) with all unit possibility including their abbreviations
* Misleading detection of RSE when spacy model doesn’t detect Spatial Entities (e.g. Montpellier, Lyon etc)

**Geotagging**

* Geo-referencing of spatial relations
* Calculation of polygon with possibility of mid-point and mid-midpoint
* Level 1 Geo-referencing
  + North, South, East, West, North-East, North-West, South-East, South-West, Central
* Level 2 Geo-referencing
  + Surrounding, border, nearby, close etc.
* Level 3 Geo-referencing
  + Distance from main polygon 30 km, 30 kilometers, 10 miles, 10 mi) with all unit possibility including their abbreviations and their interconversion. Because we need to calculate the distance in kms.
* Calculation of polygon with combination of level1, level2 and level3 relations associated with spatial entity.
  + Problem in south relation when calculating distance e.g (1O km from south of paris border)

Todo:

* Rating of polygon user interface generation and its backend generation with mysql database. This database will further export in csv, excel file etc.
* Complete testing and fixing of issues in (Extraction and for polygons)

Database (**polygon\_db**)

**Table 1 (shape)**

shape\_id, text of shape, level\_1, level\_2, level\_3, ase, geo\_json

**Table 2 (expert/user)**

Id, name (anonymous), first\_name(opt), last\_name(opt), expertise(beginner/average/professional)

Table 3 (**rating**)

shape\_id, expert\_id, rating (No. of stars possibilities (0-10), (0-5))