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In [1]: import spacy
import uuid
```

```
In [2]: nlp = spacy.load('en_core_web_sm')
```

We will take the text string from any source, say a CLI or the any other interface, the web-app maybe...(?)

```
In [13]: text = input("Enter a sentence: ")
```

Enter a sentence: Meet Rajesh at Maniktala on 1st January 2016 at 7pm.

```
In [14]: sentence = nlp(text)
```

```
In [15]: for ent in sentence.ents:
print(ent, ent.label_)
```

1st January 2016 DATE
7pm TIME

```
In [16]: class Event(object):
    _id = None
    title = None
    date = None
    time = None
    location = None

    def toString(self):
        print("_id: ", self._id,
              "title :", self.title,
              "date: ", self.date,
              "time: ", self.time,
              "location: ", self.location)
```

```
In [17]: event = Event()
```

```
In [18]: event._id = uuid.uuid4().hex
```

```
In [19]: for ent in sentence.ents:
          if ent.label_ == "TIME":
              print(f'{ent.text:{20}} {ent.label_}')
              event.time = ent.text
```

7pm TIME

```
In [20]: location_list = ["GPE", "FAC", "ORG", "LOC", ""]
          for ent in sentence.ents:
              if ent.label_ in location_list:
                  print(f'{ent.text:{20}} {ent.label_}')
                  event.location = ent.text
```

```
In [21]: for ent in sentence.ents:
          if ent.label_ == "DATE":
              print(f'{ent.text:{20}} {ent.label_}')
              event.date = ent.text
```

1st January 2016 DATE

```
In [22]: print(event.toString())
```

_id: 82996108ad3745b18fba7d3142a6dd3e title : None date: 1st January 2016 time: 7pm location: None
None