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
```

In [35]:
```
cleanup = [event.date, event.time, event.location]
try:
    for removable in cleanup:
        if removable is not None:
            print(removable)
            text = text.replace(removable, "")
except:
    print("Error as one or more Named Entity not recognised")
```

```
1st January 2016
7pm
```

In [42]:
```
event.title = text
```

In [43]:
```
event.toString()
```

```
_id:  82996108ad3745b18fba7d3142a6dd3e title : Meet Rajesh at Maniktala on  at . date:  1st January 2016 ti
me:  7pm location:  None
```

Now create an event using gcal API

In [ ]:
```

```