

CMSC516-SemEval2018-Task6

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Chapter 1

CMSC516

Chapter 2

Namespace Index

2.1 Packages

Here are the packages with brief descriptions (if available):

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t6Entity	
Programmer Name: Luke Maffey	14
task6	14
task6.sutime	14
task6.sutime_wrapper	14
task6.t6Entities	15
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Chapter 3

Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

object	
task6.sutime.SUTime	19
task6.t6Entities.t6Entity	21
task6.t6Entities.t6IntervalEntity	25
task6.t6Entities.t6Operator	26
task6.t6Entities.t6PeriodEntity	27
task6.t6Entities.t6RepeatingIntervalEntity	28

Chapter 4

Class Index

4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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task6.t6Entities.t6Entity	
Super class for all entities in TimeNorm	21
task6.t6Entities.t6IntervalEntity	25
task6.t6Entities.t6Operator	26
task6.t6Entities.t6PeriodEntity	27
task6.t6Entities.t6RepeatingIntervalEntity	28

Chapter 5

File Index

5.1 File List

Here is a list of all files with brief descriptions:

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Chapter 6

Namespace Documentation

6.1 setup Namespace Reference

Variables

- [here](#) = path.abspath(path.dirname(__file__))
- [encoding](#)
- [long_description](#) = f.read()
- [name](#)
- [version](#)
- [description](#)
- [url](#)
- [author](#)
- [author_email](#)
- [license](#)
- [classifiers](#)
- [keywords](#)
- [packages](#)
- [install_requires](#)

6.1.1 Variable Documentation

6.1.1.1 author

`setup.author`

Definition at line 30 of file setup.py.

6.1.1.2 `author_email`

`setup.author_email`

Definition at line 31 of file `setup.py`.

6.1.1.3 `classifiers`

`setup.classifiers`

Definition at line 37 of file `setup.py`.

6.1.1.4 `description`

`setup.description`

Definition at line 23 of file `setup.py`.

6.1.1.5 `encoding`

`setup.encoding`

Definition at line 12 of file `setup.py`.

6.1.1.6 `here`

`setup.here = path.abspath(path.dirname(__file__))`

Definition at line 9 of file `setup.py`.

6.1.1.7 `install_requires`

`setup.install_requires`

Definition at line 72 of file `setup.py`.

6.1.1.8 keywords

`setup.keywords`

Definition at line 58 of file setup.py.

6.1.1.9 license

`setup.license`

Definition at line 34 of file setup.py.

6.1.1.10 long_description

`setup.long_description = f.read()`

Definition at line 13 of file setup.py.

6.1.1.11 name

`setup.name`

Definition at line 16 of file setup.py.

6.1.1.12 packages

`setup.packages`

Definition at line 62 of file setup.py.

6.1.1.13 url

`setup.url`

Definition at line 27 of file setup.py.

6.1.1.14 version

`setup.version`

Definition at line 21 of file `setup.py`.

6.2 t6Entity Namespace Reference

Programmer Name: Luke Maffey.

6.2.1 Detailed Description

Programmer Name: Luke Maffey.

Date: 9/19/17

Module Purpose: Class definitions for all TimeNorm entities - Intervals, Periods, Repeating-Intervals, and Operators.

6.3 task6 Namespace Reference

Namespaces

- [suntime](#)
- [suntime_wrapper](#)
- [t6Entities](#)
- [utils](#)

6.4 task6.suntime Namespace Reference

Classes

- class [SUTime](#)

6.5 task6.suntime_wrapper Namespace Reference

Functions

- def [callSUTimeParse](#) (file_path)
callSUTIMEParse() Function Purpose: Takes in raw text file and performs SUTime's algorithm on #it and returns it in JSON format.

6.5.1 Function Documentation

6.5.1.1 callSUTimeParse()

```
def task6.sutime_wrapper.callSUTimeParse (
    file_path )
```

callSUTIMEParse() Function Purpose: Takes in raw text file and performs SUTime's algorithm on #it and returns it in JSON format.

Input: String containing the location and name of the text file to be parsed. Output: JSON string output of raw input file

Definition at line 16 of file sutime_wrapper.py.

6.6 task6.t6Entities Namespace Reference

Classes

- class [t6Entity](#)
Super class for all entities in TimeNorm.
- class [t6IntervalEntity](#)
- class [t6Operator](#)
- class [t6PeriodEntity](#)
- class [t6RepeatingIntervalEntity](#)

6.7 task6.utils Namespace Reference

Functions

- def [getWhitespaceSpans](#) (file_path)
[getWhitespaceSpans\(\)](#) Function Purpose: Pasrses a text file to idenitfy all tokens seperated by white space with their original file span coordinates.

6.7.1 Function Documentation

6.7.1.1 `getWhitespaceSpans()`

```
def task6.utils.getWhitespaceSpans (
    file_path )
```

[getWhitespaceSpans\(\)](#) Function Purpose: Parses a text file to identify all tokens separated by white space with their original file span coordinates.

Input: String containing the location and name of the text file to be parsed. Outputs: text - String containing the raw text blob from reading in the file. `tokenized_text` - a list containing each token that was separated by white space. spans - the coordinates for each token.

Definition at line 18 of file `utils.py`.

6.8 test Namespace Reference

Namespaces

- [test](#)

Variables

- [r](#)
- [t](#)
- [s](#)

6.8.1 Variable Documentation

6.8.1.1 `r`

```
test.r
```

Definition at line 8 of file `test.py`.

6.8.1.2 `s`

```
test.s
```

Definition at line 8 of file `test.py`.

6.8.1.3 t

`test.t`

Definition at line 8 of file test.py.

6.9 test.test Namespace Reference

Variables

- [r](#)
- [t](#)
- [s](#)

6.9.1 Variable Documentation

6.9.1.1 r

`test.test.r`

Definition at line 8 of file test.py.

6.9.1.2 s

`test.test.s`

Definition at line 8 of file test.py.

6.9.1.3 t

`test.test.t`

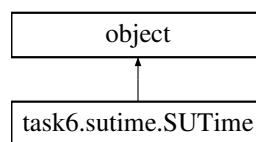
Definition at line 8 of file test.py.

Chapter 7

Class Documentation

7.1 task6.sutime.SUTime Class Reference

Inheritance diagram for task6.sutime.SUTime:



Public Member Functions

- `def __init__ (self, jars=[], jvm_started=False, mark_time_ranges=False, include_range=False)`
- `def parse (self, input_str, reference_date="")`

Public Attributes

- `mark_time_ranges`
- `include_range`
- `jars`

7.1.1 Detailed Description

Python wrapper for SUTime (CoreNLP) by Stanford.

Attributes:

```
jars: List of paths to the SUTime Java dependencies.
jvm_started: Optional attribute to specify if the JVM has already been
    started (with all Java dependencies loaded).
mark_time_ranges: Optional attribute to specify CoreNLP property
    sutime.markTimeRanges. Default is False.
    "Tells sutime to mark phrases such as 'From January to March'
    instead of marking 'January' and 'March' separately"
include_range: Optional attribute to specify CoreNLP property
    sutime.includeRange. Default is False.
    "Tells sutime to mark phrases such as 'From January to March'
    instead of marking 'January' and 'March' separately"
```

Definition at line 11 of file sutime.py.

7.1.2 Constructor & Destructor Documentation

7.1.2.1 `__init__()`

```
def task6.sutime.SUTime.__init__ (
    self,
    jars = [],
    jvm_started = False,
    mark_time_ranges = False,
    include_range = False )
```

Initializes SUTime.

Definition at line 36 of file `sutime.py`.

7.1.3 Member Function Documentation

7.1.3.1 `parse()`

```
def task6.sutime.SUTime.parse (
    self,
    input_str,
    reference_date = '' )
```

Parses datetime information out of string input.

It invokes the `SUTimeWrapper.annotate()` function in Java.

Args:

`input_str`: The input as string that has to be parsed.
`reference_date`: Optional reference data for SUTime.

Returns:

A list of dicts with the result from the `SUTimeWrapper.annotate()` call.

Raises:

`RuntimeError`: An error occurs when CoreNLP is not loaded.

Definition at line 95 of file `sutime.py`.

7.1.4 Member Data Documentation

7.1.4.1 include_range

```
task6.sutime.SUTime.include_range
```

Definition at line 40 of file sutime.py.

7.1.4.2 jars

```
task6.sutime.SUTime.jars
```

Definition at line 41 of file sutime.py.

7.1.4.3 mark_time_ranges

```
task6.sutime.SUTime.mark_time_ranges
```

Definition at line 39 of file sutime.py.

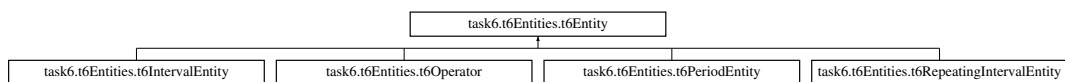
The documentation for this class was generated from the following file:

- [task6/sutime.py](#)

7.2 task6.t6Entities.t6Entity Class Reference

Super class for all entities in TimeNorm.

Inheritance diagram for task6.t6Entities.t6Entity:



Public Member Functions

- `def __init__(self, id, start_span, end_span, type, parent_type)`

The constructor.

- `def __str__(self)`

- `def setID(self, id)`

Sets the entity's ID.

- `def getID(self)`

- `def printString(self)`

- `def parentType(self)`

- `def printXML(self)`

Prints the XML representation of the entity.

Public Attributes

- [id](#)
- [start_span](#)
- [end_span](#)
- [type](#)
- [parent_type](#)

7.2.1 Detailed Description

Super class for all entities in TimeNorm.

Definition at line 10 of file t6Entities.py.

7.2.2 Constructor & Destructor Documentation

7.2.2.1 `__init__()`

```
def task6.t6Entities.t6Entity.__init__ (
    self,
    id,
    start_span,
    end_span,
    type,
    parent_type )
```

The constructor.

Definition at line 12 of file t6Entities.py.

7.2.3 Member Function Documentation

7.2.3.1 `__str__()`

```
def task6.t6Entities.t6Entity.__str__ (
    self )
```

Definition at line 19 of file t6Entities.py.

7.2.3.2 getID()

```
def task6.t6Entities.t6Entity.getID (
    self )
```

Definition at line 27 of file t6Entities.py.

7.2.3.3 parentType()

```
def task6.t6Entities.t6Entity.parentType (
    self )
```

Definition at line 33 of file t6Entities.py.

7.2.3.4 printString()

```
def task6.t6Entities.t6Entity.printString (
    self )
```

Definition at line 30 of file t6Entities.py.

7.2.3.5 printXML()

```
def task6.t6Entities.t6Entity.printXML (
    self )
```

Prints the XML representation of the entity.

Definition at line 37 of file t6Entities.py.

7.2.3.6 setID()

```
def task6.t6Entities.t6Entity.setID (
    self,
    id )
```

Sets the entity's ID.

Parameters

<i>id</i>	The ID to set it to
-----------	---------------------

Definition at line 24 of file t6Entities.py.

7.2.4 Member Data Documentation

7.2.4.1 end_span

```
task6.t6Entities.t6Entity.end_span
```

Definition at line 15 of file t6Entities.py.

7.2.4.2 id

```
task6.t6Entities.t6Entity.id
```

Definition at line 13 of file t6Entities.py.

7.2.4.3 parent_type

```
task6.t6Entities.t6Entity.parent_type
```

Definition at line 17 of file t6Entities.py.

7.2.4.4 start_span

```
task6.t6Entities.t6Entity.start_span
```

Definition at line 14 of file t6Entities.py.

7.2.4.5 type

```
task6.t6Entities.t6Entity.type
```

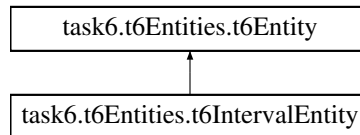
Definition at line 16 of file t6Entities.py.

The documentation for this class was generated from the following file:

- [task6/t6Entities.py](#)

7.3 task6.t6Entities.t6IntervalEntity Class Reference

Inheritance diagram for task6.t6Entities.t6IntervalEntity:



Public Member Functions

- `def __init__ (self, id, start_span, end_span, value)`

Public Attributes

- `value`

7.3.1 Detailed Description

Definition at line 40 of file t6Entities.py.

7.3.2 Constructor & Destructor Documentation

7.3.2.1 __init__()

```
def task6.t6Entities.t6IntervalEntity.__init__ (
    self,
    id,
    start_span,
    end_span,
    value )
```

Definition at line 41 of file t6Entities.py.

7.3.3 Member Data Documentation

7.3.3.1 value

`task6.t6Entities.t6IntervalEntity.value`

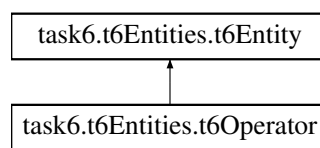
Definition at line 43 of file `t6Entities.py`.

The documentation for this class was generated from the following file:

- [task6/t6Entities.py](#)

7.4 task6.t6Entities.t6Operator Class Reference

Inheritance diagram for `task6.t6Entities.t6Operator`:



Public Member Functions

- `def __init__(self, id, start_span, end_span, operatorType)`

Additional Inherited Members

7.4.1 Detailed Description

Definition at line 54 of file `t6Entities.py`.

7.4.2 Constructor & Destructor Documentation

7.4.2.1 __init__()

```
def task6.t6Entities.t6Operator.__init__ (
    self,
    id,
    start_span,
    end_span,
    operatorType )
```

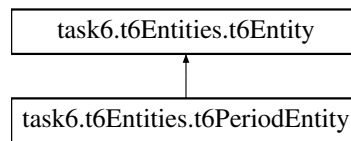
Definition at line 55 of file `t6Entities.py`.

The documentation for this class was generated from the following file:

- [task6/t6Entities.py](#)

7.5 task6.t6Entities.t6PeriodEntity Class Reference

Inheritance diagram for task6.t6Entities.t6PeriodEntity:



Public Member Functions

- `def __init__(self, id, start_span, end_span, periodType)`

Public Attributes

- [periodType](#)

7.5.1 Detailed Description

Definition at line 45 of file t6Entities.py.

7.5.2 Constructor & Destructor Documentation

7.5.2.1 __init__()

```
def task6.t6Entities.t6PeriodEntity.__init__ (
    self,
    id,
    start_span,
    end_span,
    periodType )
```

Definition at line 46 of file t6Entities.py.

7.5.3 Member Data Documentation

7.5.3.1 periodType

`task6.t6Entities.t6PeriodEntity.periodType`

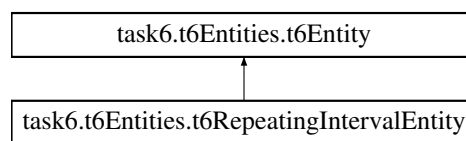
Definition at line 48 of file `t6Entities.py`.

The documentation for this class was generated from the following file:

- [task6/t6Entities.py](#)

7.6 task6.t6Entities.t6RepeatingIntervalEntity Class Reference

Inheritance diagram for `task6.t6Entities.t6RepeatingIntervalEntity`:



Public Member Functions

- `def __init__ (self, id, start_span, end_span, repeatingType)`

Additional Inherited Members

7.6.1 Detailed Description

Definition at line 50 of file `t6Entities.py`.

7.6.2 Constructor & Destructor Documentation

7.6.2.1 __init__()

```

def task6.t6Entities.t6RepeatingIntervalEntity.__init__ (
    self,
    id,
    start_span,
    end_span,
    repeatingType )
  
```

Definition at line 51 of file `t6Entities.py`.

The documentation for this class was generated from the following file:

- [task6/t6Entities.py](#)

Chapter 8

File Documentation

8.1 README.md File Reference

8.2 setup.py File Reference

Namespaces

- [setup](#)

Variables

- [setup.here](#) = `path.abspath(path.dirname(__file__))`
- [setup.encoding](#)
- [setup.long_description](#) = `f.read()`
- [setup.name](#)
- [setup.version](#)
- [setup.description](#)
- [setup.url](#)
- [setup.author](#)
- [setup.author_email](#)
- [setup.license](#)
- [setup.classifiers](#)
- [setup.keywords](#)
- [setup.packages](#)
- [setup.install_requires](#)

8.3 task6/__init__.py File Reference

Namespaces

- [task6](#)

8.4 test/__init__.py File Reference

Namespaces

- [test](#)

8.5 task6/sutime.py File Reference

Classes

- class [task6.sutime.SUTime](#)

Namespaces

- [task6.sutime](#)

8.6 task6/sutime_wrapper.py File Reference

Namespaces

- [task6.sutime_wrapper](#)

Functions

- def [task6.sutime_wrapper.callSUTimeParse](#) (file_path)
callSUTimeParse() Function Purpose: Takes in raw text file and performs SUTime's algorithm on #it and returns it in JSON format.

8.7 task6/t6Entities.py File Reference

Classes

- class [task6.t6Entities.t6Entity](#)
Super class for all entities in TimeNorm.
- class [task6.t6Entities.t6IntervalEntity](#)
- class [task6.t6Entities.t6PeriodEntity](#)
- class [task6.t6Entities.t6RepeatingIntervalEntity](#)
- class [task6.t6Entities.t6Operator](#)

Namespaces

- [task6.t6Entities](#)
- [t6Entity](#)

Programmer Name: Luke Maffey.

8.8 task6/utils.py File Reference

Namespaces

- [task6.utils](#)

Functions

- def [task6.utils.getWhitespaceSpans](#) (file_path)
[getWhitespaceSpans\(\)](#) Function Purpose: Parses a text file to identify all tokens separated by white space with their original file span coordinates.

8.9 test/test.py File Reference

Namespaces

- [test.test](#)

Variables

- [test.test.r](#)
- [test.test.t](#)
- [test.test.s](#)

8.10 test.py File Reference

Namespaces

- [test](#)

Variables

- [test.r](#)
- [test.t](#)
- [test.s](#)

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