

Requirement Sentence

"As a home owner I want to be notified when my energy consumption (electricity, gas) is higher than usual."

REGEX Parser

```
re.sub(r"[^a-zA-Z\s]", "", text)
```

As a home owner I want to be notified
when my energy consumption electricity
gas is higher than usual

Tokenizer

```
nltk.word_tokenize(cleaned_text)
```

['As', 'a', 'home', 'owner', 'I', 'want',
'to', 'be', 'notified', 'when', 'my',
'energy', 'consumption', 'electricity',
'gas', 'is', 'higher', 'than', 'usual']

Remove Stopwords

```
not in stopwords.words('english')
```

['As', 'home', 'owner', 'I', 'want',
'notified', 'energy', 'consumption',
'electricity', 'gas', 'higher', 'usual']

Stemming

```
porter_stemmer.stem(lexicalWord)
```

['As', 'home', 'owner', 'I', 'want',
'notifi', 'energi', 'consumpt',
'electr', 'ga', 'higher', 'usual']