

Zadanie 3 i 4.

```
PUT localhost:9200/judgments
{ "settings": {
  "analysis": {
    "analyzer": {
      "pl_analyzer": {
        "type": "custom",
        "tokenizer": "standard",
        "filter": ["morfologik_stem"]
      }
    }
  },
  "mappings": {
    "judgment" : {
      "properties" : {
        "content" : {
          "type" : "text",
          "analyzer": "pl_analyzer"
        },
        "date" : {
          "type" : "date"
        },
        "signature" : {
          "type" : "keyword"
        },
        "judges" : {
          "type" : "text"
        }
      }
    }
  }
}
```

Zadanie 5.

```
from elasticsearch import Elasticsearch

import json
import os
from glob import glob

es = Elasticsearch()

INDEX = "judgments"
DOC_TYPE = "judgment"

def prepareJson(item):
    content = item['textContent']
    date = item['judgmentDate']
    judges = []
    for judge in item['judges']:
        judges.append(judge['name'])
    return json = {
        "content": content,
        "date": date,
        "judges": judges
    }
```

```

    }
    return returnjson

def loadJsonsToES(jsony):
    pattern = os.path.join(jsony, 'judgments*.json')
    for file_name in glob(pattern):
        with open(file_name, encoding="utf-8") as f:
            curr_json = json.load(f)
            items = curr_json['items']
            for item in items:
                if '2006' in item['judgmentDate']:
                    single_json = prepareJson(item)
                    es.index(index=INDEX, doc_type=DOC_TYPE, body=single_json)

jsony= 'c:/Users/entman/desktop/jsony'
loadJsonsToES(jsony)

```

Zadanie 6.

```

POST localhost:9200/judgments
{
    "query": {
        "match" : {
            "content" : "szkoda"
        }
    }
}

```

Wynik = 445

Zadanie 7.

```

POST localhost:9200/judgments
{
    "query": {
        "match_phrase": {
            "content": "trwały uszczerbek na zdrowiu"
        }
    }
}

```

Wynik = 9

Zadanie 8.

```

POST localhost:9200/judgments

```

```
{
  "query": {
    "match_phrase": {
      "content": {
        "query": "trwały uszczerbek na zdrowiu",
        "slop": 4
      }
    }
  }
}
```

Wynik = 10

Zadanie 9.

Niestety nie zrobiłem :(

Zadanie 10.

Date Histogram.png w repo