Implementation of the whoosh with the flask

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Steps:1

Installation of the whoosh installation of the flask

Step 2:

Creating the whoosh index for the data

The steps to be followed

Step 3:

This is assumed that we have the index prepared from the whoosh

Now we start with the whoosh

In the main folder: we will create three folders

Main folder:

Static:

Template:

Whoosh Index:

main.py

The static folder:

will be contain all the css and javascript. You can download it from boot strap or you can make your on css and javascript or java query

Template folder:

This folder will contain all the html files.

Whoosh folder:

This folder contain whoosh index.

Main.py

This is the main python file which will activate the server and run the flask.

Step 4:

Configuring the flask with whoosh

The main.py standard code

for hit in result:

```
from flask import Flask, render template, request
#This is for importing the flask and rendering template
from whoosh.index import open dir
from whoosh.gparser import MultifieldParser
from whoosh.fields import *
#The above three will the import from the whoosh
app = Flask( name )
This is the app and it is the instant for flask class with the parameter named as __name_
@app.route('/')#this will setup the path of the root of the following the functions.
def hello world():
return render template('index.html')
@app.route('/search',methods=['GET', 'POST'])
This app route method mean that it will receive the values from the search page into the
variable text which will pass into query variable with the function request.args.get("text")
def search():
query=request.args.get('text')
#return query
index path = r"C:\Users\Abhi\Desktop\Index"
ix = open_dir(index_path)
mparser = MultifieldParser(["title","docno","text_data", "author_data","bibilo_text"],
schema=ix.schema)
q = mparser.parse(str(query))
with ix.searcher() as searcher:
     result = searcher.search(q)
     if len(result)!=0:
This pass the result dictionary into the search html This is the way to transfer the by
rendering the template
       return render template("search.html", results=result)
   return render_template("NotFound.html")
  \#count = count + 1
```

```
# print(len(hit))
#print(count)
```

```
#return render_template('search.html')
if __name__ == '__main__':
    app.run(port=80,debug=True)
```

The app will run after calling the run function with app instant.

Html------

This html search page where we send our results .

The first two lines will be an example of jinja templating

```
{% extends "layout.html" %}
{% block body %}
<h1 align="center">Search Results</h1>
This is title in the page
```

SEARCH RESULTS

This is the search fox with the button

The first step is you have to define the form and it class then what would be the action and method. Details would be given html forms in any html tutorials.

This is creating the box and sending the query written over search black box into /search page using get method after the submission of the button.

SEARCH	RESULTS	
Search	Search	

This is showing the result into the following way

{% endblock %}

This is table form from which we can represent our data in the same page where we have the search block.

SEARCH RESULTS

formulae for use with the fatigue load meter in the the series meter of wing fatigue life.

the variation of gust frequency with gust velocity and altitude.

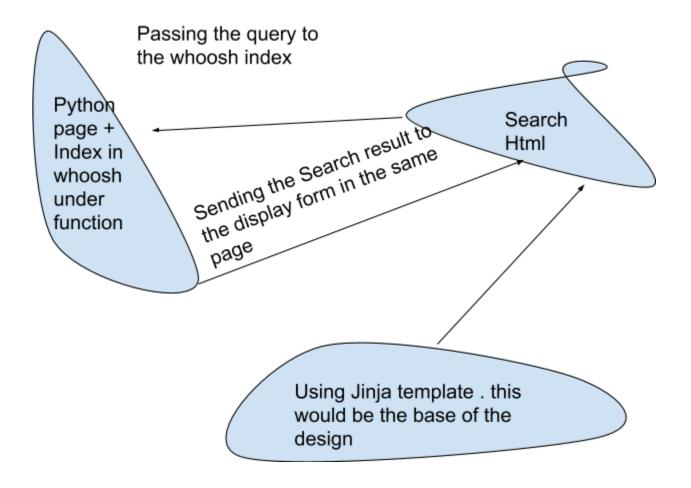
the effect of jet noise on aircraft structures.

the design of structures to resist jet noise fatigue.

Larkson, b.1.

Larkson of structures to resist jet noise fatigue.

b. 1. clarkson resist jet noise fatigue resist not not noise resist not not noise resist not not possible to estimate the life of any component at the drawing board stage some prototypestrain measurements and proof testing are therefore resemble and resist not resist not possible to estimate the life of any component at the drawing board stage some prototypestrain measur



Python code

```
from flask import Flask, render_template, request
from whoosh.index import open_dir
from whoosh.qparser import MultifieldParser
from whoosh.fields import *
app = Flask(__name__)

@app.route('/')
def hello_world():
    return render_template('index.html')

@app.route('/search', methods=['GET', 'POST'])
def search():
query=request.args.get('text')
#return query
```

```
index path = r"C:\Users\Abhi\Desktop\Index"
ix = open dir(index path)
mparser = MultifieldParser(["title","docno","text data", "author data","bibilo text"],
schema=ix.schema)
q = mparser.parse(str(query))
with ix.searcher() as searcher:
       result = searcher.search(q)
        if len(result)!=0:
          return render template("search.html", results=result)
          return render template("NotFound.html")
   #count = count + 1
   # for hit in result:
    # print(len(hit))
#print(count)
#return render_template('search.html')
if name == ' main ':
app.run(port=80, debug=True)
```

Search Index

```
{% extends "layout.html" %}
{% block body %}
<h1 align="center">Search Results</h1>
 <form class="form-inline my-2 my-lg-0" method="get", action="/search">
   <input class="form-control mr-sm-2" align="center" type="text" name="text"</pre>
placeholder="Search" aria-label="Search">
    <button class="btn btn-outline-success my-2 my-sm-0"</pre>
type="submit">Search</button>
   </form>
  </div>
 </nav>
  {% for hit in results %}
     <tr>
        {{ hit['title'] }} 
       {{ hit['author_data'] }} 
           {{ hit['text data'] }}
```

```
</tr>
     {% endfor %}
 {% endblock %}
Jinja Template
<html>
<head>
<title>Website</title>
<style>
@import url(http://fonts.googleapis.com/css?family=Amatic+SC:700);
body{
text-align: center;
h1{
font-family: 'Amatic SC', cursive;
font-weight: normal;
color: #8ac640;
font-size: 2.5em;
</style>
</head>
<body >
{% block body
응 }
{% endblock %}
</body>
</html>
Important link:
```

http://programminghistorian.github.io/ph-submissions/lessons/published/creating-apis-with-python-and-flask