

Web Services – Assignment 3

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Overview:

In this project, I have created a REST based web service that provides a simple interface to query from the two databases that is created by reading the appropriate .txt files. The user has to enter the value they're looking for on the web interface and hit the Search! Button. The resulting interface brings up the values according to the query passed.

Files:

- The index.html file (where user queries)
- The apiResult.html file (where the output is displayed from the query)
- The main_hw3.py file (The main code that enables the operations above)

How to run:

1. To run the code, load the project as it is.
2. Run the MongoDB (executable) & make sure that mongodb is up and running.
3. Run the api.py file.
4. Click on <http://127.0.0.1:5000/> from the output console.
5. Follow the instruction on the web interface.

The index.html file:

This file is what enables the user interface of the web application. It basically calls different web directories (e.g. /api_year or /mashup_year) methods according to the field being utilized.

The apiResult.html file:

This file takes as an input the result array output from the index.html and iterates through it and prints everything on a new line.

The main_hw3.py file:

This is the main program of the assignment. This program first creates two databases. Then read the files api.txt & mashup.txt one by one. And parses everything after splitting with \$\$ and puts it in the database table according to the file name. After that it calls app.run() to run the flask implementation for the web deployment. Where each request (e.g. api_protocol) is redirected to its localhost/ (e.g. api_protocol) web page for the results to be displayed.

The Output Scenarios:

1. Year search from the API.txt database



Search from API collection as per below criteria (any 1):

Year:

2013

Protocol:

Category:

Rating:

Tag:

Keyword:

Search from MASHUP collection as per below criteria (any 1):

Year:

Used API:

Tag:

Keyword:



Result of the Search: Result List

```
##CxC e-Sim
#Gah People
123ContactForm
1Map
21 Forty Medical District Slide Show Data Service
24 Pull Requests
2600hz
27 Seconds Knowledge Base
3.0 Trippin&#039; in
360T
3DGeoStats
42matters
50BTC
5star SMS
5yMail
6px
73 Summits ErgDB
9jams
9kw.eu
A State of Trance
A-Dato Lynx
Aalto University
Aarki
AASHE STARS
Ably
Abra Mobile Websites
Access Plans USA
AccountingSuite
Accurate Append
AchieveMint
Achta Sepa
Active RegOnline
```

2. Protocol search from the API.txt database



Search from API collection as per below criteria (any 1):

Year:

 Search!

Protocol:

 Search!

Category:

 Search!

Rating:

 Search!

Tag:

 Search!

Keyword:

 Search!

Search from MASHUP collection as per below criteria (any 1):

Year:

 Search!

Used API:

 Search!

Tag:

 Search!

Keyword:

 Search!

The Global Proteome Machine
##CSC e-Sim
#blue
100TB
11870
123Cloud ECP
123Cloud SMS Broadcasting
123ContactForm
12seconds.tv
140 Proof
18mail
1DayLater
1Map
23
23andMe
24 Pull Requests
24X7SMS
2600hz
2Checkout
2sms
3.0 Trippin'; in
30 Boxes
30 Digits Web Extractor
30Loops
360 Technologies Bulk SMS
360Text
360voice
3Jam
3PlayMedia
3Scale Account Management
3Scale Analytics
3Scale Billing

3. Category search from the API.txt database



Search from API collection as per below criteria (any 1):

Year:

Protocol:

Category:

Rating:

Tag:

Keyword:

Search from MASHUP collection as per below criteria (any 1):

Year:

Used API:

Tag:

Keyword:

Result of the Search: Result List

The Global Proteome Machine
23andMe
agINFRA
AILUN
Alaska Satellite Facility
ALTER Reflective
AMEE
AnnotQTL
AmWeb
Archimedes Project Donatus
Arne Elofsson's EMBRACE
Asterank
Asterank Kepler Project
Asterank Minor Planet Center
Asterank SkyMorph / NEAT
Astro-Phys.com Ephemeris
Astronomy
Australian Synchrotron
BigWorldData NDWI
BIOBASE
BioBricks Public Agreement
BioCyc
BioDB Hyperlink Management System
BioDigital Human
Biodiversity Heritage Library
BioDOM
Biofab Data Access
BioGRID
BioLit
BiologicalNetworks
BioMart
BioMortar



4. Rating search from the API.txt database



Search from API collection as per below criteria (any 1):

Year:

Protocol:

Category:

Rating:

 <3

Tag:

Keyword:

Search from MASHUP collection as per below criteria (any 1):

Year:

Used API:

Tag:

Keyword:

Result of the Search: Result List

100TB
123Cloud SMS Broadcasting
140 Proof
24X7SMS
360 Technologies Bulk SMS
360voice
3Scale Account Management
3tags
42com
42matters
4C
500friends
5min
796 Xchange
8x8 Click to Dial
9kw.eu
A State of Trance
A3 Ultimate
AA SHE STARS
AccountingSuite
Accurate Append
AchieveMint
Active RegOnline
activeRender
Acu Identity
AcyMailing
Adap.tv
Adbeat
Address Meister
AddressFinder
Adlib
Administrate



Search from API collection as per below criteria (any 1):

Year:

 Search!

Protocol:

 Search!

Category:

 Search!

Rating:

 Search!

Tag:

 Search!

Keyword:

 Search!

Search from MASHUP collection as per below criteria (any 1):

Year:

 Search!

Used API:

 Search!

Tag:

 Search!

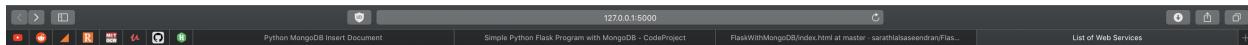
Keyword:

 Search!

Result of the Search: Result List

11870
123 Shop Pro
123Cloud ECP
12seconds.tv
1DayLater
2011 International Computational Billiards Championships
23
27 Seconds Knowledge Base
2checkout
2GIS
2sms
30 Boxes
360Text
3DArmor
3dCart
43Things
4PSA VoipNow
4Shared
Aalto social interface
About.me
Abundant Barnes & Noble Price
Academic Benchmarks
Accuity IBAN Connect
AccurateTax
AccuWeather
Achta Sepa
Activ Financial
Activa Live Chat
Active.com Camping
AddThis Services
Adobe on AIR Bus Tour
Adobe Share

5. Tag search from the API.txt database



Search from API collection as per below criteria (any 1):

Year:

Protocol:

Category:

Rating:

Tag:

Keyword:

Search from MASHUP collection as per below criteria (any 1):

Year:

Used API:

Tag:

Keyword:

Result of the Search: Result List

```
#Gah People
100 Facts About Me
3.0 Trippin'; in
360voice
43 Places
4C
4chan
4Shared
500friends
500px
51.com
6rounds
73s Ham Radio
8tracks
Aalto social interface
About.me
AchieveMint
Acrostic.me Trending
ActionKit
Activity
Add To Trip
AddShoppers Social Product
AddThis Analytics
AddThis Menu
AddThis Services
AddThis Sharing Endpoints
AddToAny Menu
Adega
Adhoocracy
Adobe Social
Advogato
Alau.me
```

6. Year search from the MASHUP.txt database



Search from API collection as per below criteria (any 1):

Year:

Protocol:

Category:

Rating:

Tag:

Keyword:

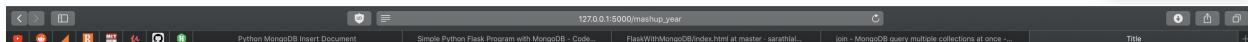
Search from MASHUP collection as per below criteria (any 1):

Year:

Used API:

Tag:

Keyword:

Result of the Search: Result List

Mobile Emulator
#BeerMap - The Top 2,500 Beers on Twitter
#S42AT
100 Destinations
4Wheelz RouteMate
Aanbeiding
About Pune City
Academic Ranking of World Universities (Shanghai Ranking)
Airlift & DocuSign
Alert The Boss | Instant Customer Feedback Solution
AML Source
Amtrak Train Routes
Analytics Edge Connector for MailChimp
App Review Tube
Appites
Article Optimizer
AskToStudy
Auctions Closing-soon.com
AudiBase | Mobile Recording and Audio Blogging Apps Themes Plugins
Austin City Limits Music Festival radio
Austin Startup Map
Auto Task Templates for Highrise
AutoPal DocuSign Integration
AutoProfilez
Avoka Transact + DocuSign
AXti.me
Baby Name Meanings
Batch URL to Image Converter
BBC News Visualizer
Beamster
Beathound
BeatStriker

7. Api search from MASHUP.txt database



Search from API collection as per below criteria (any 1):

Year:

Protocol:

Category:

Rating:

Tag:

Keyword:

Search from MASHUP collection as per below criteria (any 1):

Year:

Used API:

Tag:

Keyword:

Result of the Search: Result List

```
#API Christmas
#S42AT
Actually
BadgePLZ
BadgePlz
DoAt (do@())
FunPics
Geo Location Atlas
Gramfeed
Hashtogram
ILocY
in1.com
Instadeck
InstaKity
InstaMap
InstaMe
InstaPopular
InstaPuppy
InstaShirt
Instastrm - Live Instagram Photo Stream
Instatrends
Journalmatic
Lagunagram
Life Stream
Listagram
Little Corner
Lovestagram
Luvdaq - Where is the love?
Memolane
obsvr.net
Pic A Fight!
Pictaiam
```

8. Tag search from MASHUP.txt database



Search from API collection as per below criteria (any 1):

Year:

Protocol:

Category:

Rating:

Tag:

Keyword:

Search from MASHUP collection as per below criteria (any 1):

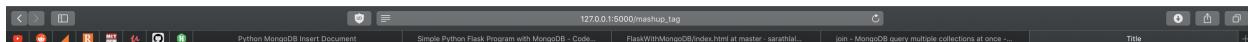
Year:

Used API:

Tag:

 social

Keyword:

Result of the Search: Result List

```
#API Christmas
#docs ("docs")
#LinS Stats on Your LinkedIn Social Graph
100 Destinations
1click2destiny
200 Towns
2012twit
2books
44tips ("your visual start page")
4sqgoogle
50 Shops
a.placebetween.us
Achivy
Actually
Adventure Works Resorts
AgeAnalyzer
AgentRank for WordPress
Ahoy Hoy!
alem.com
Allo Sortir
Altertunes
Altio Diagram
Amazigg
Analytics Portfolio
AO Monitor
AOLMail for Facebook
Ascendify Talent Community
aShare Over the Air Sharing
Ask 500 People
ASK KENÂ - Visual Knowledge Browser
Askives
Aumio
```

9. Keyword search from MASHUP.txt database



Search from API collection as per below criteria (any 1):

Year:

Protocol:

Category:

Rating:

Tag:

Keyword:

Search from MASHUP collection as per below criteria (any 1):

Year:

Used API:

Tag:

 social

Keyword:

 Christmas 

Result of the Search: Result List

```
#API Christmas
Bronner's My Christmas Wonderland
Bumpin Santa Games
Cheerrmap
Cut Your Own Christmas Tree: Ottawa Area Tree Farms Map
I Feel Christmassy
My 10 Wishes
Santa Call
Santa Stars
SantaCall Us
Tacky Christmas Lights
US Towns with Holiday Season Names
```



Search from API collection as per below criteria (any 1):

Year:

Protocol:

Category:

Rating:

Tag:

Keyword:

Search from MASHUP collection as per below criteria (any 1):

Year:

Used API:

Tag:

Keyword:

Result of the Search: Result List

Mobile Emulator

#BeerMap - The Top 2,500 Beers on Twitter

#S42AT

100 Destinations

4Wheelz RouteMate

Aanbeiding

About Pune City

Academic Ranking of World Universities (Shanghai Ranking)

Airlift & DocuSign

Alert The Boss | Instant Customer Feedback Solution

AML Source

Amtrak Train Routes

Analytics Edge Connector for MailChimp

App Review Tube

Appites

Article Optimizer

AskToStudy

Auctions Closing-soon.com

Audibase | Mobile Recording and Audio Blogging Apps Themes Plugins

Austin City Limits Music Festival radio

Austin Startup Map

Auto Task Templates for Highrise

AutoPal DocuSign Integration

AutoProfilez

Avoka Transact + DocuSign

AXti.me

Baby Name Meanings

Batch URL to Image Converter

BBC News Visualizer

Beamster

Beathound

BeatStriker