Assignment 3:

Author: Amruta Deshpande

Design:

The Web based query system is designed mainly using the 4 components – Mongodb, NodeJS, Express and Jade.

Firstly, the data is preprocessed in the apiJSON.py and MashupJSON.py files and the respective JSON files are created. This JSON files are then loaded in the mongodb. Once the this files are loaded they are being queried in the NodeJS. Through Jade the output of the query is being displayed.

WorkFlow:

- 1. Go to the home page i,e localhost:3000
- 2. Then select the query enter the values to the query. This text field values are passed to the NodeJS where this query are executed through the data in mongodb.
- **3.** Once the result is fetch this result is passed to the Jade and is the outcomes are displayed in the table format on the web page

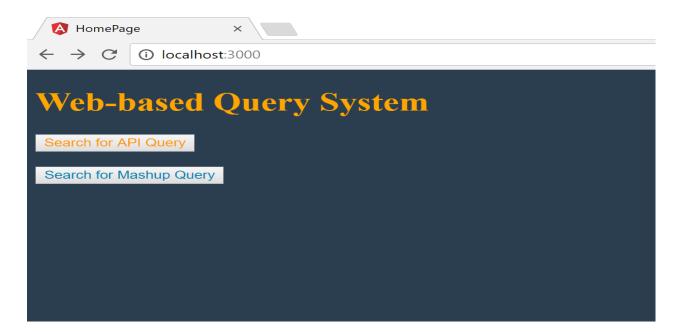
Screenshots of Application:

1. Api Data in mongodb

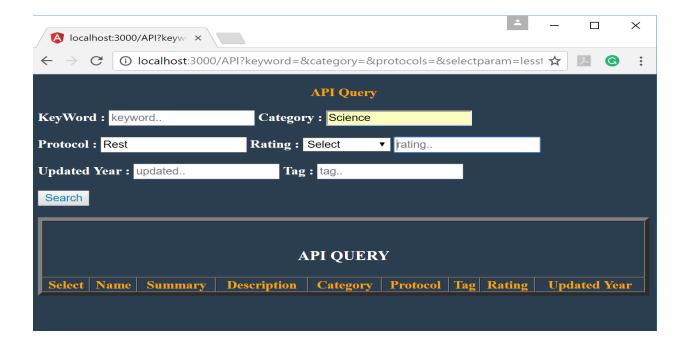
```
db.apicollections.find().pretty()
      "_id" : ObjectId("58f7c0e77b33a66c17c73932"),
      "CommunityApiKits" :
"VendorApiKits" : "",
      "accountReq" : "No",
"apigroups" : "",
      "authentication": "",
      "author" : '
      "blog" : "",
"category" : "Science",
       "clientInstall" : ""
      "commentsUrl" : "http://api.programmableweb.com/apis/the-global-proteome-machine/comments",
      "commercial"
                 : ""
       "company"
      "company" : "",
"dataFormats" : "JSON",
      "dataLicensing" : "", 
"dateModified" : "2012-12-17T09:51:40Z",
      "description" : "The Global Proteome Machine is an attempt to create knowledge from proteomics data and reuse i
 solve biomedical research problems. The Global Proteome Machine Database was built to use GPM data to help validate
ptide MS/MS spectra and protein coverage patterns. The Global Proteome Machine Database API provides RESTful access to
 mmonly required information based on data from the GPM Database. Responses are JSON formatted. "
"downloadUrl" : "",
"downloads" : "",
"example" : "",
"forum" : "",
      "id" : "http://www.programmableweb.com/api/the-global-proteome-machine",
      "label" : " The Global Proteome Machine"
```

2. Mashup Data in Mongodb

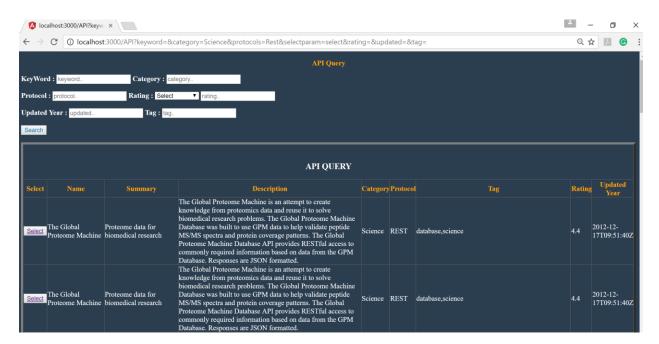
3. Home page for web-based query system



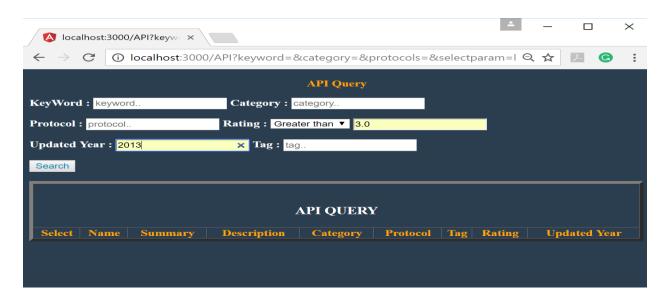
4. Click on the search API query and the following web page is displayed. For combine query. Consider taking category ='science' and protocol='Rest'



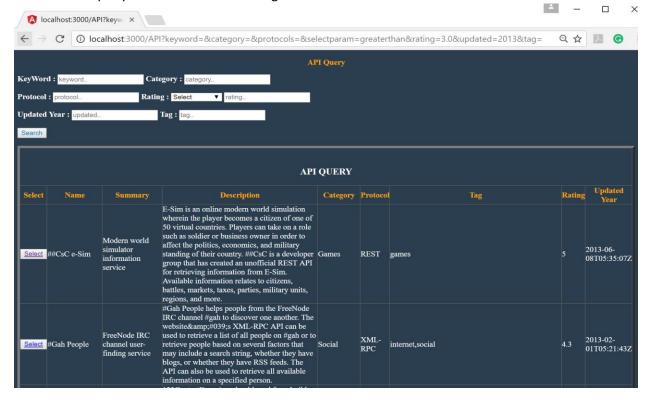
Results of the query are:



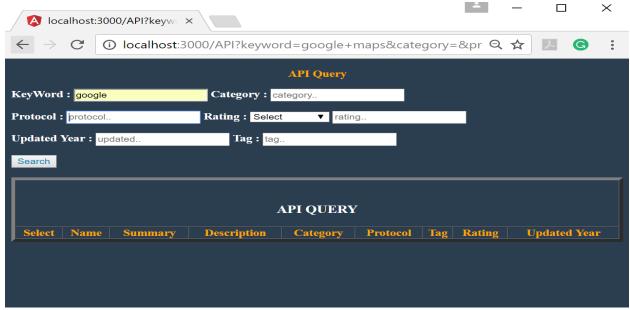
5. For query rating greater than 3.0 and updated year= 2013



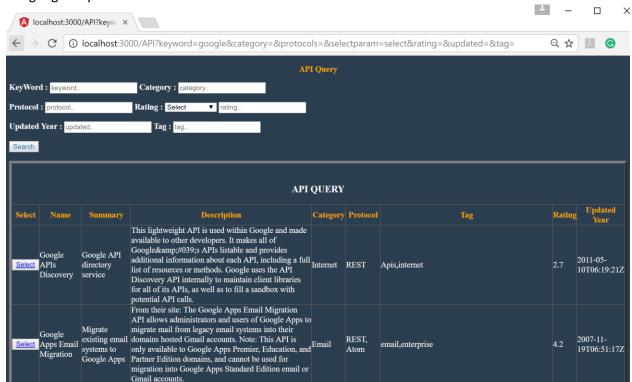
Result of the query is shown in the below figure

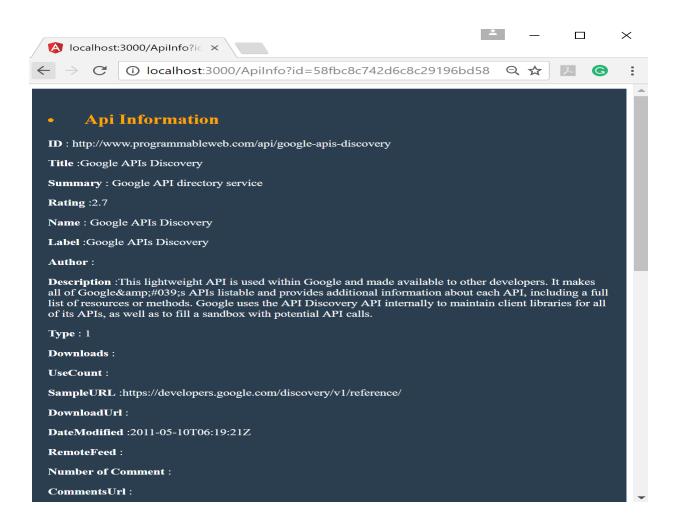


6. For keyword ='google

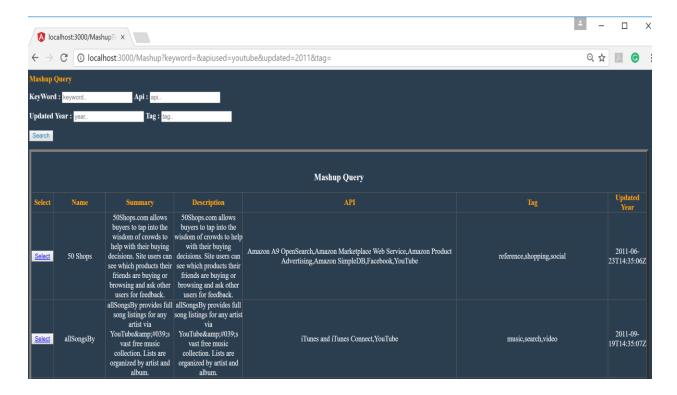


For google keyword resul

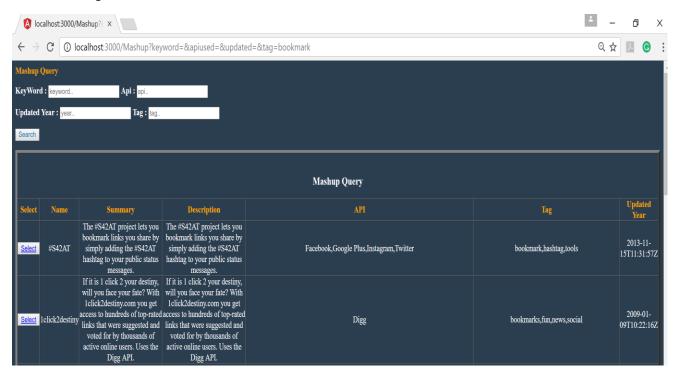




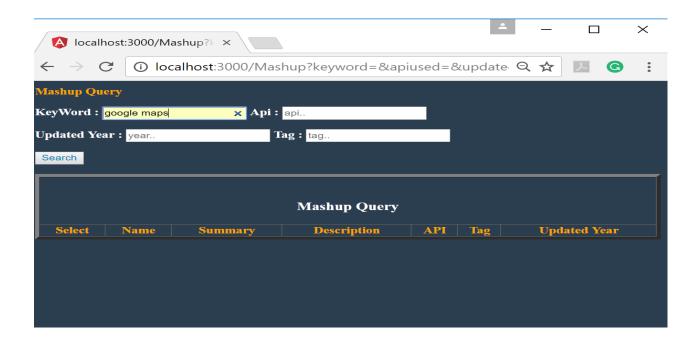
7. For api='youtube' and updated year='2011'



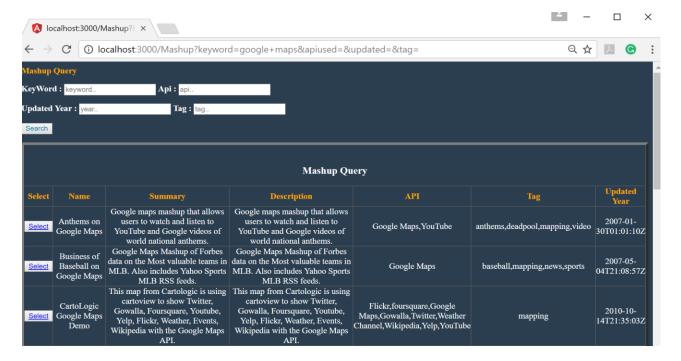
8. For tag='bookmark'



9. For google maps keyword



Results of google map keywords:



10. Mashup information after selecting the select button

