

# Report

## Assumptions:

- To select 100 products from api I have queries Edmodo api with following query terms :  
math, mitosis, fractions, history, arts , holidays , cooking , dance , drama , music , graphical arts , programming , web design , game design , phonics ,reading , poetry , writing , Chinese , German , English , Latin , French , Arabic , Spanish , Italian , calculus , decimals , statistics , geometry , religion , coaching , arithmetic.
- Total Products got using these queries : 108

## Implementation details:

- I have used MVC framework in Django.
- Database used MySQL.
- I have created project 'Edmodo' and app 'searchEngine' in project.
- The schema for table has been defined in Model.py file. This allows to modify columns or modify database in minimal changes in code base.
- <http://localhost:8080/search/> is landing page for searchEngine.
- Each time page loads, internally it checks whether MySQL database table has entries. If not, it will execute the 'scraper' which will call Edmodo api, fetch data and push into database table.
- If database table already has data, then it proceed further to business logic.
- Business logic i.e. searching of products, has been implemented using 'Django-Haystack' and 'Whoosh' .
- I have used 'title' and 'long\_desc' for indexing the data.
- Generated index can be found at 'Whoosh' folder in project .
- At front-end, I have used 'Bootstrap' framework.
- Communication with Django view has been managed by 'AJAX'.

## Results:

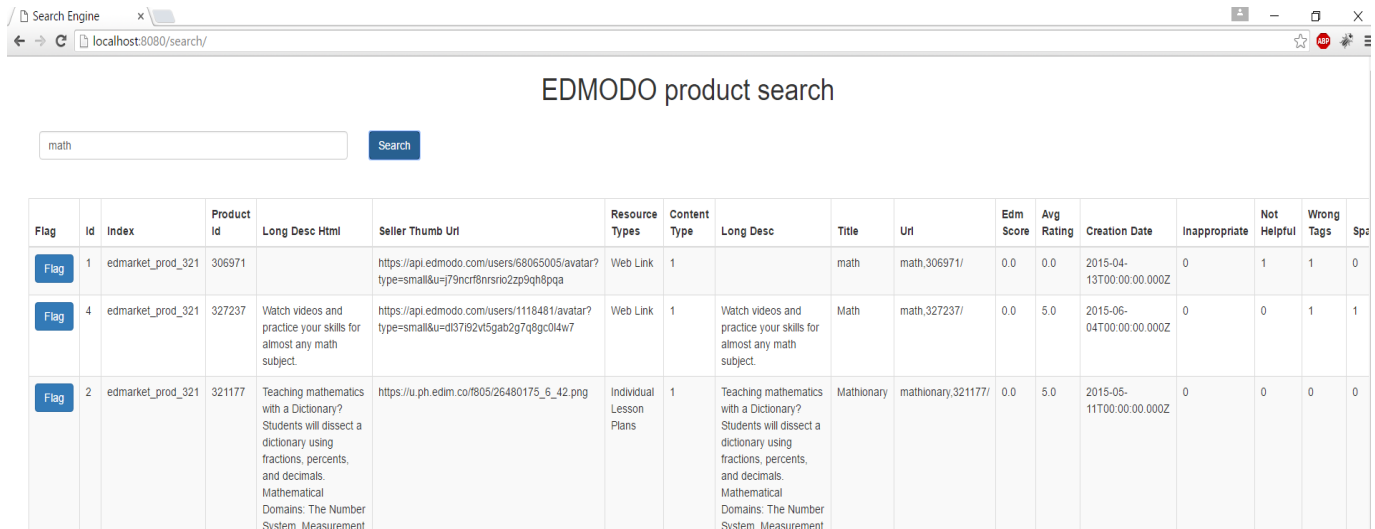
Please find the screenshots of execution.

### 1. Landing Page :



## EDMODO product search

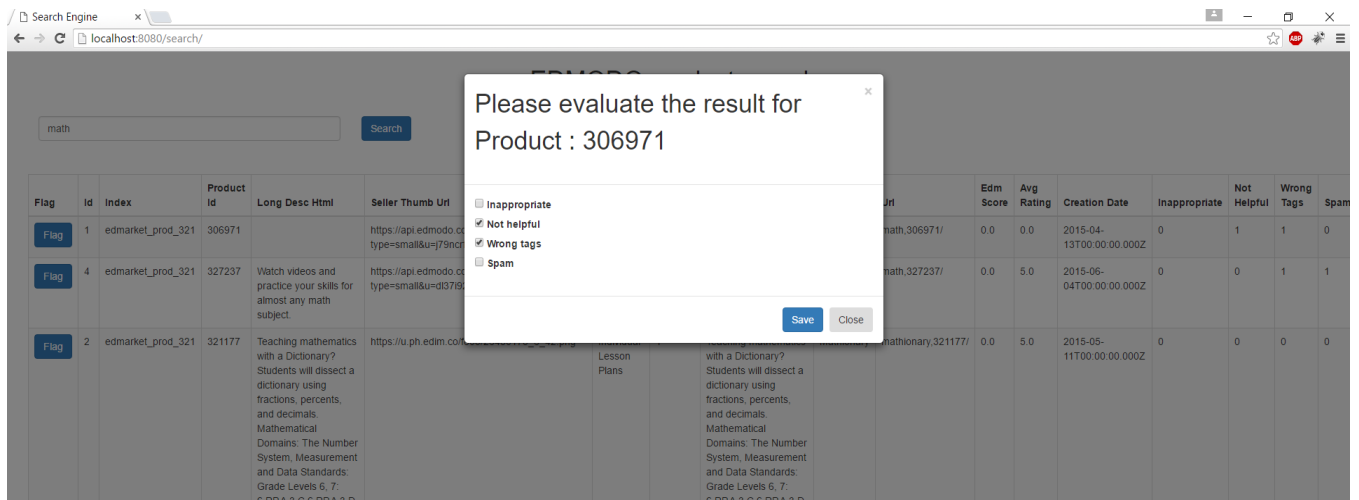
## 2. Searching :



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/search/'. The page title is 'EDMODO product search'. Below the title is a search bar containing the text 'math' and a 'Search' button. The search results are displayed in a table with the following columns: Flag, Id, Index, Product Id, Long Desc Html, Seller Thumb Url, Resource Types, Content Type, Long Desc, Title, Url, Edm Score, Avg Rating, Creation Date, Inappropriate, Not Helpful, Wrong Tags, and Spam. The table contains three rows of results.

Flag	Id	Index	Product Id	Long Desc Html	Seller Thumb Url	Resource Types	Content Type	Long Desc	Title	Url	Edm Score	Avg Rating	Creation Date	Inappropriate	Not Helpful	Wrong Tags	Spam
<a href="#">Flag</a>	1	edmarket_prod_321	306971		https://api.edmodo.com/users/68065005/avatar?type=small&u=79ncrf8nsrno2zp9qh8pqa	Web Link	1		math	math,306971/	0.0	0.0	2015-04-13T00:00:00.000Z	0	1	1	0
<a href="#">Flag</a>	4	edmarket_prod_321	327237	Watch videos and practice your skills for almost any math subject.	https://api.edmodo.com/users/1118481/avatar?type=small&u=d37f92vt5gab2g7q8gc0l4w7	Web Link	1	Watch videos and practice your skills for almost any math subject.	Math	math,327237/	0.0	5.0	2015-06-04T00:00:00.000Z	0	0	1	1
<a href="#">Flag</a>	2	edmarket_prod_321	321177	Teaching mathematics with a Dictionary? Students will dissect a dictionary using fractions, percents, and decimals. Mathematical Domains: The Number System, Measurement	https://u.ph.edim.co/1805/26480175_6_42.png	Individual Lesson Plans	1	Teaching mathematics with a Dictionary? Students will dissect a dictionary using fractions, percents, and decimals. Mathematical Domains: The Number System, Measurement	Mathionary	mathionary,321177/	0.0	5.0	2015-05-11T00:00:00.000Z	0	0	0	0

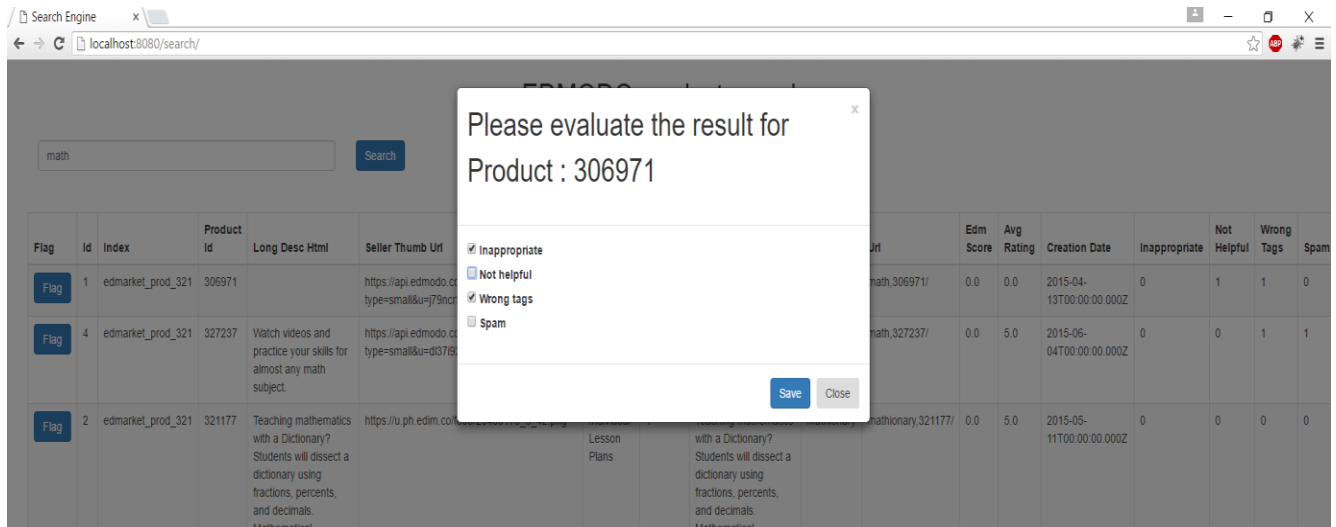
## 3. On click Flag :



The screenshot shows the same search results table as in the previous image. A modal dialog box is open in the center of the screen, titled 'Please evaluate the result for Product : 306971'. The dialog contains four checkboxes: 'Inappropriate', 'Not helpful', 'Wrong tags', and 'Spam'. The 'Not helpful' and 'Wrong tags' checkboxes are checked. There are 'Save' and 'Close' buttons at the bottom right of the dialog.

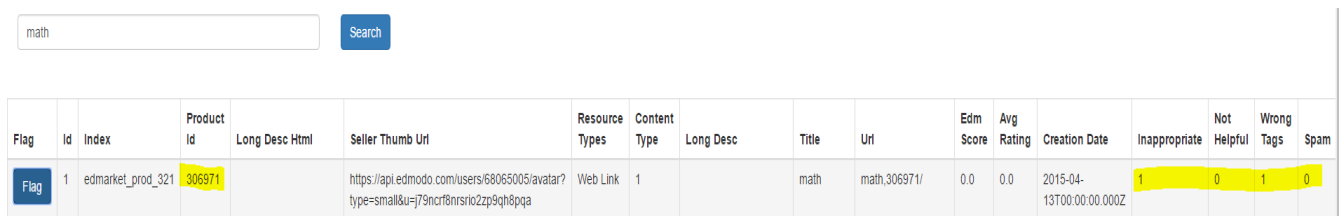
Note: Here, if database has already set some flags, like in this case for product\_id 306971, someone has already set flags 'Not Helpful' and 'Wrong Flags'. So those checkbox will be checked. Now, if you think that it's actually helpful and but 'inappropriate' then, just uncheck 'Not helpful' and check 'inappropriate'.

#### 4. Setting new flags :



### 5. Reflection of changes (Show flagged products ) :

Once you close the modal window, your changes will reflect in backend table and also can be observed in backend screen.



6. Last Four columns indicate flags :

Inappropriate	Not Helpful	Wrong Tags	Spam
1	0	1	0
0	0	1	1
0	0	0	0

Here 0 indicate not set and 1 indicate set.

## Execution:

- create MySQL database with following credentials :  
host="localhost"  
user="root"  
passwd="qwerty"  
db="edmodo"

Note : If you give another password please update password in 'Settings.py' file

- Extract Edmodo.zip in folder "C:\Python27\"
- Install python packages :  
Django==1.9.4  
django-haystack==2.4.1  
ipdb==0.9.0  
jsonschema==2.5.1  
MySQL-python==1.2.4b4  
requests==2.9.1  
simplejson==3.8.1  
urllib3==1.14  
Whoosh==2.7.3
- To start server **first run migrate\_server.bat** and then **run restart\_EDMODov2\_server.bat**
- Launch **http://localhost:8080/search/** in chrome.
- **NOTE :**  
The First execution will take time as application will pull data from Edmodo API online (This will need internet connection. For future execution there is no need for internet). For future execution, it won't call API, so execution will be faster.