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Research Paper on Implementation of Mining Facets Automation for the Searched Queries

Shraddha Londhe¹, Dr. Hemant Deshmukh², Prof. Pallavi Dhande³

¹M.E 2ND Year Computer Science and Engineering, ²Head of the Department, ³Assistant Professor, Dr. Rajendra Gode Institute of Technology & Research

Abstract: Data mining is the process of sorting through large data sets to identify patterns and establish relationships to solve problems through data analysis. Data mining tools allow enterprises to predict future trends. The process of finding query facets which are in the form of multiple groups of words or phrases will be address as a problem to explain and summarize the content covered by a query. Facet is a set of items which describe and summarize one important aspect of a query, here a facet item is typically a word or phrase. A query may have multiple facets that summarize the information about the query from different perspectives. It is assumed that the important aspects of a query are usually presented and repeated in the query's top retrieved documents in the style of lists and query facets can be mined out by aggregating these significant lists. Query facets provide interesting and useful knowledge about a query and thus can be used to improve search experiences in many ways. To assist information for finding faceted queries a technique is explore that represent interesting facets of a query using groups of semantically related terms extracted from search results. Web search queries are often multi-faceted, which makes a simple ranked list of results inadequate. So, a method is used, refer to as QDMiner to automatically mine query facets by extracting and grouping frequent lists from free text, HTML tags, and repeat regions within top search results. Search results based on used method will simply improve the efficiency of users ability to find information easily.

I. INTRODUCTION

A query facet is a set of items which describe and summarize one important aspect of a query. Here a facet item is typically a word or a phrase. A query may have multiple facets that summarize the information about the query from different perspectives. Query facets provide interesting and useful knowledge about a query and thus can be used to improve search experiences in many ways. users can understand some important aspects of a query without browsing tens of pages. For example, a user could learn different brands and categories of watches. We can also implement a faceted search [1], [2], [3], [4]based on the mined query facets. User can clarify their specific intent by selecting facet items. Then search results could be restricted to the documents that are relevant to the items. Important pieces of information about a query are usually presented in list styles and repeated many times among top retrieved documents. Thus we propose aggregating frequent lists within the top search results to mine query facets and implement a system called QDminer. More specifically QDMiner extracts lists from free text, HTML tags and repeat regions contained in the top search results groups them into clusters based on the items they contain then rank the clusters and items based on how the lists and items appear in the top results. Query facets are mined by the following four steps:

- 1) *List and Context Extraction* Lists and their context are extracted from each document.
- 2) *List Weighting* All extracted lists are weighted and thus some unimportant or noisy lists that occasionally occurs in a page can be assigned by low weights
- 3) *List Clustering* Similar lists are grouped together to compose a facet. We do not use individual weighted lists as query
- 4) *Facet and Item Ranking* Facets and their items are evaluated and ranked. Based on our motivation that a good facet should frequently appear in the top results, a facet is more important.

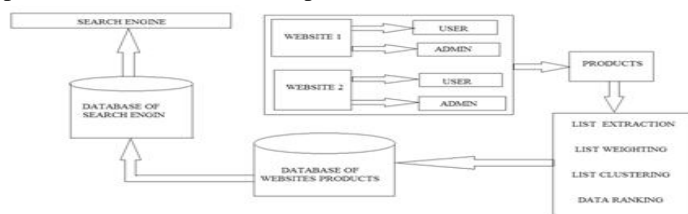


Figure 1 : Working Of Proposed System

In project, there are two ecommerce website that are ecommerce 1 and ecommerce 2. Both website have its own admin and various users. Admin have authority to upload product that uploaded product are going through 4 steps that are list extraction, list weighting, list clustering and data ranking. These 4 steps are very important steps throughout the project because these 4 steps helps to convert unstructured data to structured data then this structured data submit to the database of websites and with the help of admin structured data in database of websites are finally submitted to database of search engine. And if user search any product then data comes in structured format in proper way from database of search engine

In this paper we also implement the impression and click technique.

Impression is a measurement of responses from a Web server to a page request from the user browser, which is filtered from robotic activity and error codes, and is recorded at a point as close as possible to opportunity to see the page by the user. An impression is when an ad is fetched from its source, and is countable. In this topic by using impression we show most visited items by user in our search engine. Click-through rate (CTR) is the ratio of users who click on a specific link to the number of total users who view a page, email. It is commonly used to measure the success of an particular website as well as the effectiveness of email campaigns.

II. IMPLEMENTATION

In project, there are two ecommerce website that are ecommerce 1 and ecommerce 2. Both website have its own admin and various users. Admin have authority to upload product that uploaded product are going through 4 steps that are list extraction, list weighting, list clustering and data ranking. These 4 steps are very important steps throughout the project because these 4 steps helps to convert unstructured data to structured data then this structured data submit to the database of websites and with the help of admin structured data in

database of websites are finally submitted to database of search engine. And if user search any product then data comes in structured format from database of search engine This shows various screenshots how the implementation of the system is done. There are six modules in the project.

A. Ecommerce 1(Website 1)

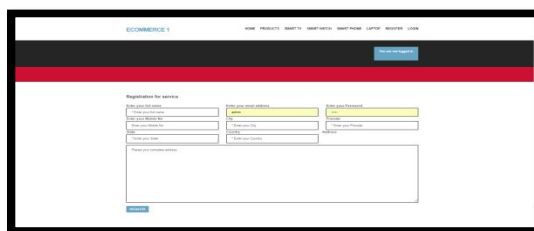
1) Ecommerce 1 Home Page



Screenshot 1: Ecommerce 1 Home Page:

Screenshot 6.1 is of home page of ecommerce 1 that is website 1.

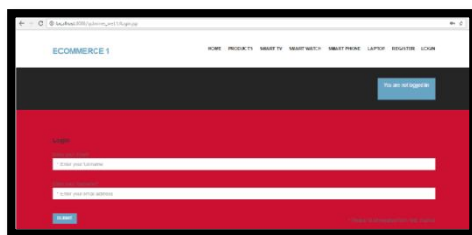
2) Ecommerce 1 Registration Form



Screenshot 2: Ecommerce 1

3) *Registration Form:* In Registration Form Of Ecommerce 1, new user have to enter full name, email address, password, mobile number, city, pin code, state, country, address. In this form all fields are necessary.

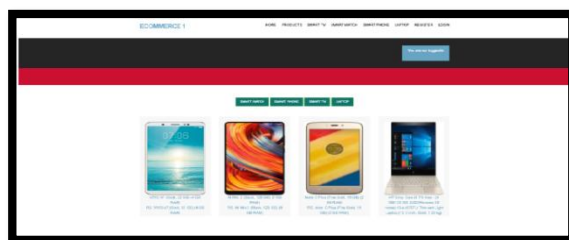
4) Ecommerce 1 Login Page



Screenshot 3:Ecommerce 1 Login Page

This is the login page of the ecommerce 1 website from where user can login with the help of email address and password

5) Ecommerce 1 Products

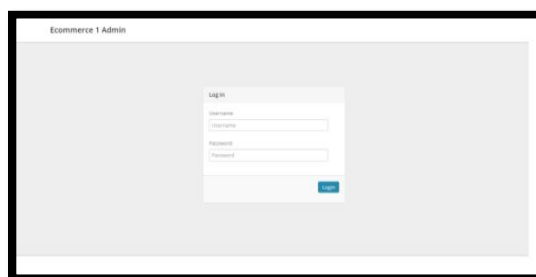


Screenshot 4 : Ecommerce 1 Products

In product page there is list of all product as well as there is also link of categories so that user can directly go to that page of particular category if user wants.

B. Admin of Ecommerce 1

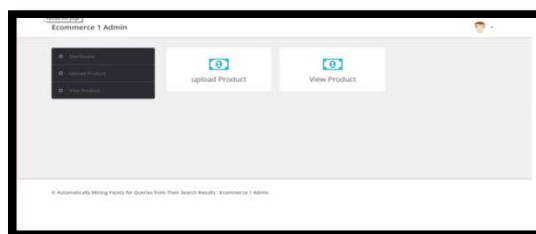
1) Login Page



Screenshot 6: Login Page Of Admin 1

This is login page of admin of ecommerce 1 in which username and password of admin is require.

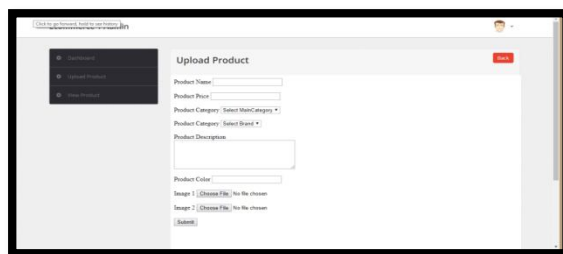
2) Home Page



Screenshot 7: Home Page Of Admin 1

This is home page of admin of ecommerce Admin have authority to handle all the work of ecommerce 1 such as upload product, view product.

3) Upload Product

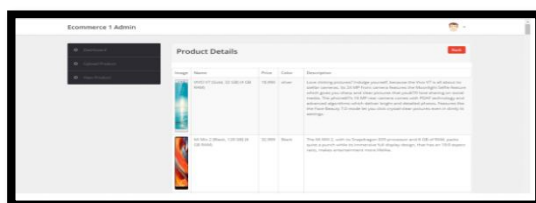


The screenshot shows the 'Upload Product' form in the Ecommerce 1 Admin interface. The form includes fields for Product Name, Product Price, Product Category (a dropdown menu), Product Brand (a dropdown menu), Product Description, Product Color, and two image upload slots (Image 1 and Image 2). A 'Submit' button is located at the bottom right of the form.

Screenshot 8: Upload Product Admin1

In this upload form we have to fill product name, product price, product category, product brand, product description, product colour, product image and after submitting the product will show in ecommerce 1.

4) Product Details



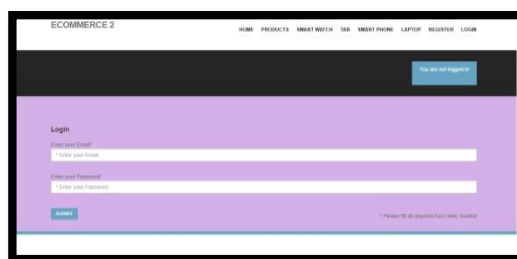
The screenshot shows the 'Product Details' page in the Ecommerce 1 Admin interface. It displays a table with product information, including Product Name, Price, Category, Brand, and Description. The table has columns for these details and a 'Status' column.

Screenshot 9: Product Details Admin 1

This is product details of admin of ecommerce 1. In this product details admin can view uploaded product.

C. Ecommerce 2 (Website 2)

1) Login Page

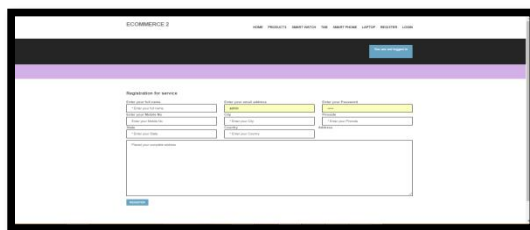


The screenshot shows the login page of the Ecommerce 2 website. It features a purple background with a white login form. The form includes fields for 'Email and Username' and 'Enter your Password', along with a 'Login' button. A 'You are not logged in' message is displayed at the top right.

Screenshot 10: Ecommerce 2 Login

This is the login page of the ecommerce 2 website from where user can login with the help of email address and password

2) Registration Form

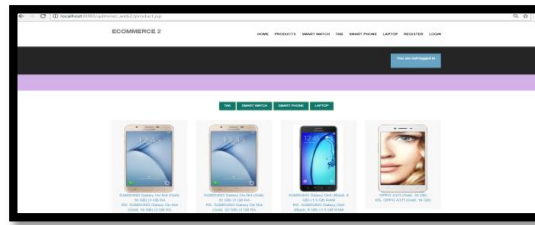


The screenshot shows the registration form of the Ecommerce 2 website. It features a purple background with a white registration form. The form includes fields for 'Registration for service', 'Email and Username', 'Enter your Password', 'Mobile Number', 'City', 'Pin Code', 'State', 'Country', and 'Address'. A 'Register' button is located at the bottom left of the form.

Screenshot 11: Registration Form

In Registration Form of Ecommerce 2, new user have to enter full name, emailaddress, password, mobile number, city,pin code, state, country, address. In this form all fields are necessary.

3) Product

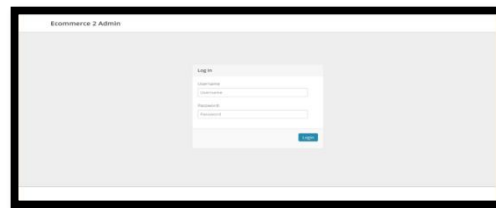


Screenshot 12 : Product Of Ecommerce

In product page there is list of all product as well as there is also link of categories so that user can directly go to that page of particular category if user wants.

D. Admin2

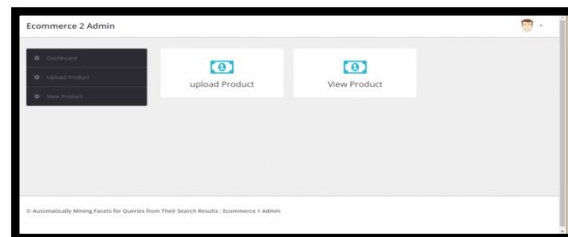
1) Login Page



Screenshot 14: Login Page Of Admin Of Ecommerce 2

This is login page of admin of ecommerce 2 in which username and password of admin is require. Admin have authority to handle all the work of ecommerce 2

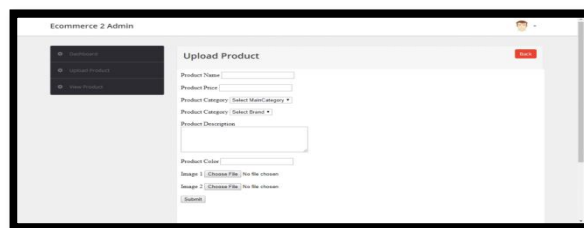
2) Home Page



Screenshot 15: Home Page Of Admin 2

This is home page of admin of ecommerce2. Admin have authority to handle all the work of ecommerce website 2 such as upload product, view product.

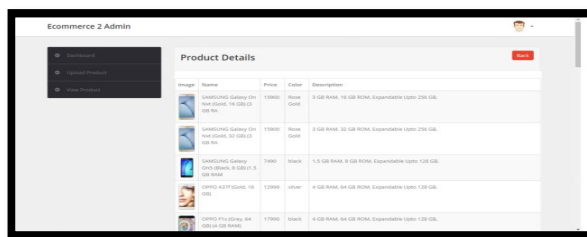
3) Upload Product



Screenshot 16: Upload Page Of Admin Of Ecommerce 2

This is upload page of admin of ecommerce 2. In this upload form we have to fill product name, product price, product category, product brand, product description, product colour, product image and after submitting the product will show in ecommerce 2.

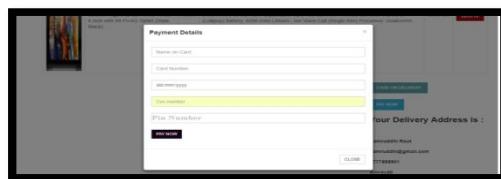
4) Product Details



Screenshot 17: Product Details Of Admin Of Ecommerce 2

This is product details of admin of ecommerce 2. In this product details admin can view uploaded product.

5) Payment Details

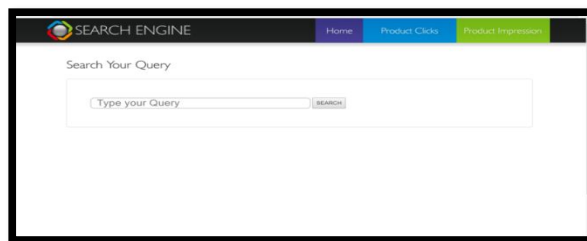


Screenshot 18: Payment Details

If user wants to do online payment then user have to enter name of card, card number, date, cvv number, and pin number. And after payment order place successfully.

E. Search Engine

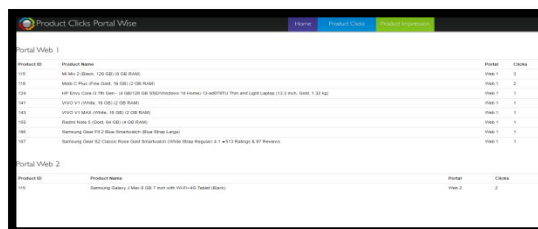
1) Search Engine Home



Screenshot 19: Search Engine Home

This is main part of project, search engine which gives the proper result to the user which store in the database of search engine. There are two ecommerce websites that are ecommerce 1 and ecommerce 2. Both websites have their own admin and various users. Admin upload product that uploaded product are going through 4 steps that are list extraction, list weighting, list clustering and data ranking. These 4 steps help to convert unstructured data to structured data then this structured data submit to the database of websites and with the help of admin structured data in database of websites are finally submitted to database of search engine. And if user search any product then data comes in structured format in proper way from database of search engine.

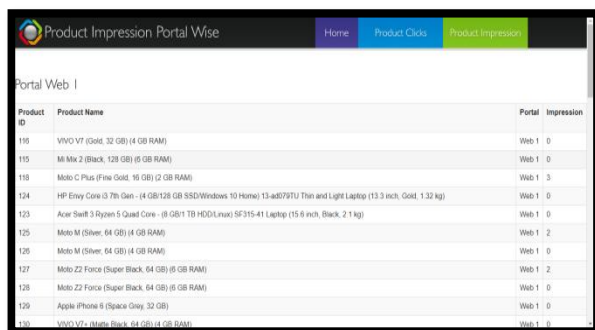
2) Product Clicks Portal Wise



Screenshot 20: Product Clicks Portal Wise

The click-through rate is the number of times a click is made on the product divided by the total impressions. Product clicks are given separated for both the ecommerce website. Each item name is given with its product click portal wise

3) Product Impression Portal Wise



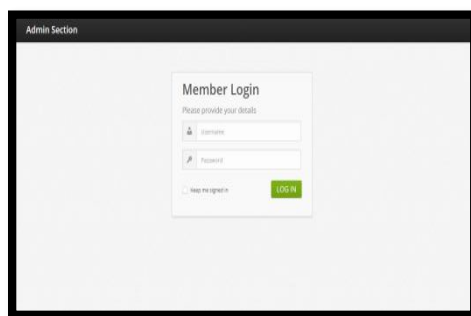
| Product ID | Product Name | Portal | Impression |
|------------|---|--------|------------|
| 118 | VIVO V7 (340, 32 GB) (4 GB RAM) | Web 1 | 0 |
| 115 | Mi Mix 2 (Black, 128 GB) (6 GB RAM) | Web 1 | 0 |
| 119 | Moto C Plus (Fine Gold, 16 GB) (2 GB RAM) | Web 1 | 3 |
| 124 | HP Envy Core (3.7m Gen - (4 GB/128 GB SSD/Windows 10 Home) 13-4679TU Thin and Light Laptop (13.3 inch, Gold, 1.32 kg) | Web 1 | 0 |
| 123 | Acer Swift 3 Ryzen 5 Quad Core - (8 GB/1 TB HDD/Linux) SF315-41 Laptop (15.6 inch, Black, 2.1 kg) | Web 1 | 0 |
| 125 | Moto M (Silver, 64 GB) (4 GB RAM) | Web 1 | 2 |
| 126 | Moto M (Silver, 64 GB) (4 GB RAM) | Web 1 | 0 |
| 127 | Moto Z2 Force (Super Black, 64 GB) (6 GB RAM) | Web 1 | 2 |
| 128 | Moto Z2 Force (Super Black, 64 GB) (6 GB RAM) | Web 1 | 0 |
| 129 | Apple iPhone 6 (Space Grey, 32 GB) | Web 1 | 0 |
| 130 | VIVO V7+ (Matte Black, 64 GB) (4 GB RAM) | Web 1 | 0 |

Screenshot 21: Product Impression Portal Wise

An impression is when an product is fetched from its source, and is countable. Whether the product is clicked is not taken into account. Each time an product is fetched, it is counted as one impression

F. Admin Section of Search Engine

1) Login page



Admin Section

Member Login

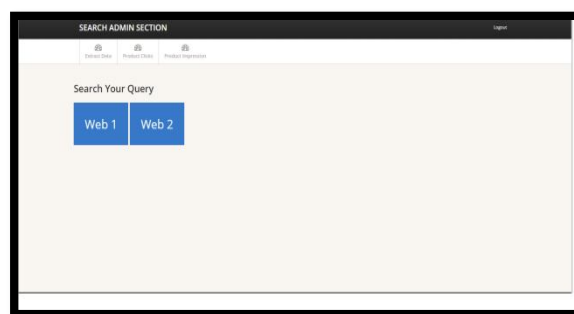
Please provide your details

☐ Remember me

Screenshot 22: Login page

This is login page of admin of search engine in which username and password of admin is require. Admin have authority to submit the structured data to the database of the search engine.

2) Home Page Of Admin Of Search Engine



SEARCH ADMIN SECTION

Extract Data Product Clicks Product Impressions

Search Your Query

Screenshot 23: Home page

In home page of admin of search engine, there are three links one is of extract data which is direct to home page which contain web1 and web2 two buttons, second is product clicks and third is product impression. There is also log out button to log out from the session.

3) Product Clicks Portal Wise In Admin Of Search Engine

Screenshot 24

SEARCH ADMIN SECTION

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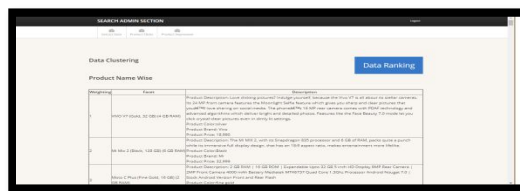
Product Clicks Portal Wise

Portal Web 1

| id | name | impressions | clicks | ctr |
|-----|------|-------------|--------|-----|
| 115 | 1000 | 100 | 10% | 10% |
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| | | | | |

In list weighting, all extracted lists are weighted and thus some unimportant or noisy lists, Such as the price list that occasionally occurs in a page can be assigned by low weights. Some of the extracted lists are not informative or even useless. There are two weighted list ecommerce1 and ecommerce2.

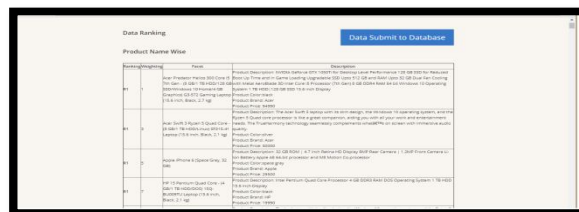
7) List Clustering



Screenshot 28: List Clustering

In list clustering, similar lists are grouped together to compose a facet. For example, different lists about watch gender types are grouped because they share the same items “men’s” and “women’s”. There are two clustered list one is of ecommerce website1 and second is of ecommerce website2.

8) Data Ranking



Screenshot 29: Data Ranking

In data ranking, facets and their items are evaluated and ranked . For example, the facet on brands is ranked higher than the facet on colours based on how frequent the facets occur and how relevant the supporting documents are.

III. ACKNOWLEDGEMENT

It is matter of great pleasure by getting the opportunity of highlighting a fraction of knowledge I acquired during my technical education through this dissertation. The making of the project needed co-operation and guidance of a number of people. I therefore consider it my prime duty to thank my guid, co-guid and principal.

IV. CONCLUSION

We study the problem of finding query facets. We propose a systematic solution which we refer to as QDMiner to automatically mine query facets by aggregating frequent lists from free text, HTML tags and repeat regions within top search results. the first approach of finding query facets, QDMiner can be improved in many aspects. We further analyze the problem of duplicated lists, and find that facets can be improved by modeling fine-grained similarities between lists within a facet by comparing their similarities.

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