IJEAST

INTERNATIONAL JOURNAL
OF ENGINEERING APPLIED SCIENCE
AND TECHNOLOGY

VOLUME : 6 ISSUE : 11 Print / Issue Publication Date: 11-May-2022

ISSN : 2455-2143

DOI : 10.33564/IJEAST.2022.v06i11.045

Indexed In

Google SCHOLAR OPEN ACCESS doi Crossref

WWW.IJEAST.COM

editor@ijeast.com

International Journal of Engineering Applied Sciences and Technology, 2022
Vol. 6, Issue 11, ISSN No. 2455-2143, Pages 238-241
Published Online March 2022 in IJEAST (http://www.ijeast.com)

PRICE COMPARISON WEBSITE USING OBJECT RECOGNITION

Prashant Sanap, Swati Shinde, Anjali Mahajan, Rahul Vishe,Anuprita Gawande
Department of Electronics & Telecommunication Engineering,
Shivajirao S. Jondhle College of Engineering & Technology Asangaon, Maharashtra, India.

Abstract: **The aim of this product is to check the product costs of various sellers like Flipkart.com, Amazon.in, Croma.com etc. And come back the worth of product in every web site that helps the client to make a decision and get the minimum priced product. The system provides list of value of a product by comparison with different websites. Unidentified product will be simply recognized by seeing simply by uploading the image. These sites offer the simplest value by uploading the image of the product and supply the simplest value whereas avoiding spare advertisements and knowledge. value Comparison web site for on-line searching Project is meant in python language. Seeing is employed to spot product. to get the knowledge concerning the product, the API's of various E-commerce sites area unit taken.**

***Keyword*: Object Recognition, Price Comparison.**

I. INTRODUCTION:

A price comparison web site acts as a platform or medium between the shoppers and also the sellers. It permits shoppers to ascertain completely different lists of costs for the product chosen by user and it helps shoppers to form a wise to call concerning that to decide on so as to avoid wasting cash. On the opposite words, the value comparison web site additionally has the role to market the retailer/shop/hypermarket/supermarket to the purchasers. On the opposite words, the value comparison web site additionally has the role to market the retailer/shop/hypermarket/supermarket to the purchasers. The pressures on time and cash particularly within the current economic state of affairs wherever the living value will increase and there's solely very little time to try to some buying house, a value comparison web site like value comparison web site can completely become an excellent facilitate towards shoppers. Besides, users these days' square measure terribly snug with the web that it's big a wider sort of applications from networking and currently offer numerous references for the users. it's necessary for an internet comparison web site to come results with the low costs as what the purchasers need however correct results additionally necessary in order that customers will get what they actually need. It additionally depends on however regular the info is being updated alternative wise customers are going to be confused once they compared it from other web site. The planned visual perception enabled value comparison web-application in its initial kind. The meant audience can embrace people who square measure a lot of dependent and attentive to getting product from E-commerce sites. the online application can ease their effort of finding a product at a decent value. the most practicality involves providing the user, the simplest on-line value of the product from AN input image of the product. This net application can therefore alter tons of users to appear for a decent value by taking its image which cannot be in their possession. the online application also will function AN advertising agent for E-commerce sites in addition.

II. REVIEW OF LITERATURE:

This research paper was written by Moraga-Gonzalez J.L and Wildenbeest M. R and it was published in July, 2011. The price comparison sites attract all the involved parties no matter suppliers or the consumers to its platform as it has become the aggregator of product information.

The results show that there is increased on the advertising spend and competition and it gives adverse effect on the financial performance towards the price comparison sites. Meanwhile the number of consumers using price comparison sites for quotes has remains high and its average number of sites used are increasing over time.

The Content Extraction Method of Webpage Information based on Knowledge Base Web content extraction involves transforming web unstructured information into structured information. Knowledge base has the advantages of ordering information and knowledge, also be used conveniently. So it's convenient to retrieve information and knowledge, and it makes base for effective use. Knowledge base will speed up the knowledge and the flow of information and make for knowledge sharing and communication.

Price-Comparison Agents for Magic's: Mobile agents are well suited for facilitating consumer buying process on the Internet, particularly for comparing prices. Markov decision theory is used to formulate a mathematical model to determine the optimum number of mobile agents to be dispatched if the price distribution is known.

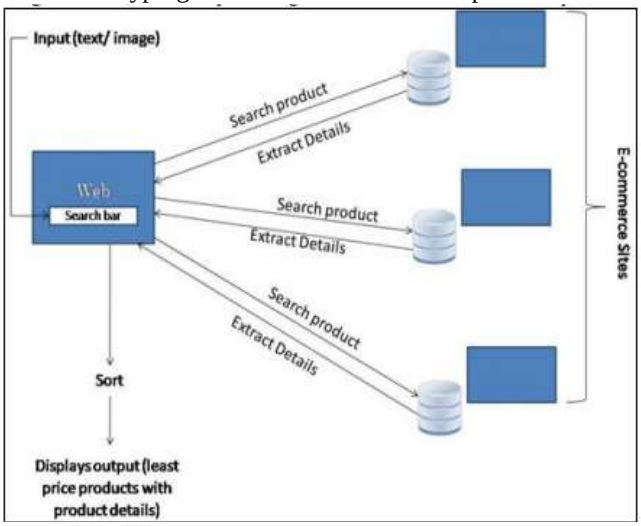
Mining E-Commerce Data from E-Shop Websites: This paper contributes a novel approach for the automated

International Journal of Engineering Applied Sciences and Technology, 2022
Vol. 6, Issue 11, ISSN No. 2455-2143, Pages 238-241
Published Online March 2022 in IJEAST (http://www.ijeast.com)

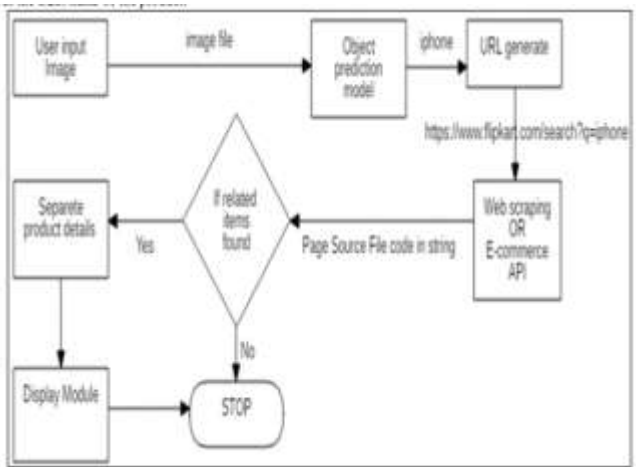
identification and extraction of product price data from arbitrary e-shop websites which is independent from thee-shops' language and the product domain.

III. PROPOSED METHODOLOGY:

To design a web application that helps users to obtain the best price for a product by uploading its image, without the overhead of typing out the exact name of the product.



Flowchart:



Search by Image:
This is helpful, once the user has the product image. The user will transfer the image by browsing from the native classification system upon clicking a button. The image is uploaded to the object recognition model.

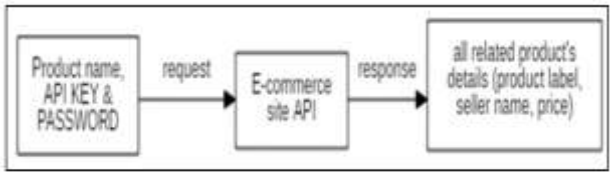
Display Module:
The show module displays the appropriate results to the user. The show module can receive information from image recognition module. Once all the data received from totally different modules the data with same product name is clubbed on and show one in each of the product image in this section with product label and corresponding product names with price and product purchase link. Similarly, all the connected product goes to be listed throughout this fashion. alone restricted results unit of measurement showed the user. to go looking out the foremost effective price all from altogether totally different e-commerce sites of a product unit of measurement compared and displayed best value with product link to the user at the bottom.
Display module kinds the result obtained from the ecommerce web site and show in tabular kind product wise. User are going to be directed to e-commerce web site on clicking the obtain link cherish the vendor name. The matching product image, name etc., is scraped from the ecommerce web site and is presented the user, at intervals a instrumentality. the smallest amount value is highlighted to the user by once sorting, saving the time of users to go looking for the simplest choice.

Web Scraping:
Web scraping from e-commerce sites is completed to gather the product details. This system will be done solely to the sites which permit internet scraping instead they block us from accessing their website while not authorization. Internet scraping technique is same in idea however it varies with the supply file of e-commerce website. To try and do this victimization the product name known (through object recognition) or given by user, the URL is made to look on the e-commerce website. Then supply file of URL is collected and processed to urge necessary details of the product. To method this string to urge necessary details, initial the pattern of the page supply file is known. That the hypertext mark-up language tags together with the product details like product name, seller name, price etc., can have associate degree ID together with it. This ID is same for all product within the page. Therefore, there'll associate degree ID for product name totally different ID for seller name equally different ID for every product details. Therefore, victimization this ID the knowledge location is known in page supply and gets the near string to the ID. therefore we will get all the product details. Therefore, this separation of product details is done to any or all the product resulted in page supply string. The main points separated from the supply file area unit list of product in search result with corresponding product name, seller name, product value and link to shop for the product.

E-commerce site API:
Application programming interface permits communication by that totally different applications simply and seamlessly share information between them. Here the e-commerce API helps to extract product info (images, prices) from the looking web site. the costs and pictures of the product

International Journal of Engineering Applied Sciences and Technology, 2022
Vol. 6, Issue 11, ISSN No. 2455-2143, Pages 238-241
Published Online March 2022 in IJEAST (http://www.ijeast.com)

within the ecommerce web site can so be mirrored within the internet application.

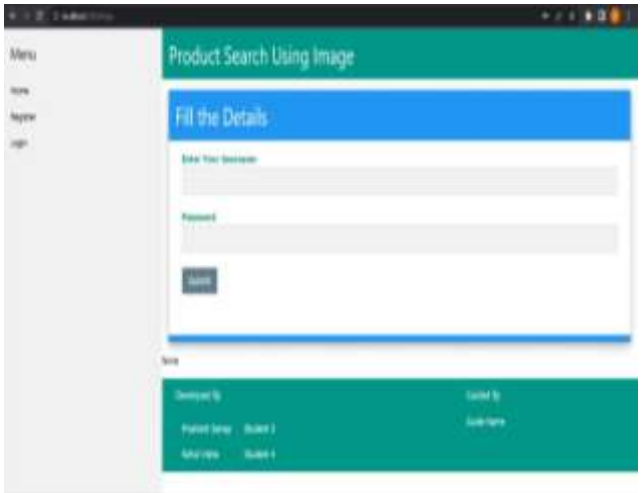


An API key and secret issued by the ecommerce web site permits related to users to access the corresponding API of the web site to get data of assorted product.

IV. RESULT:

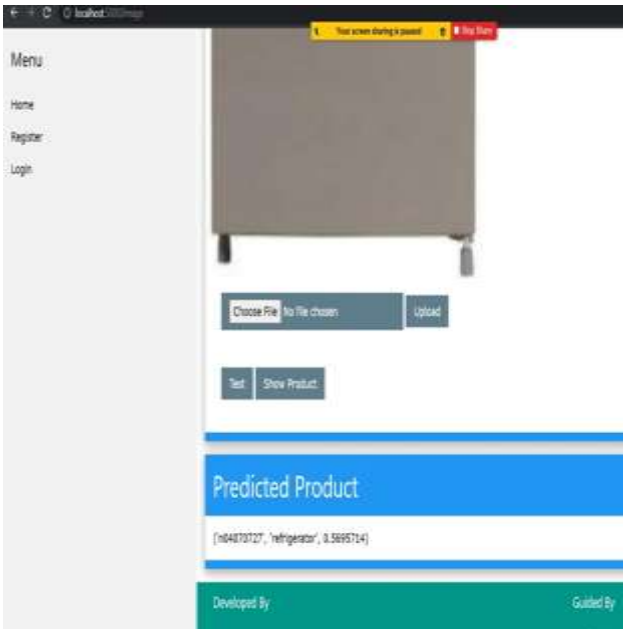
(Fig. 1) Registration Page:

Here we have to fill the users details for example name, Email id, contact number, age, gender for the registration process.



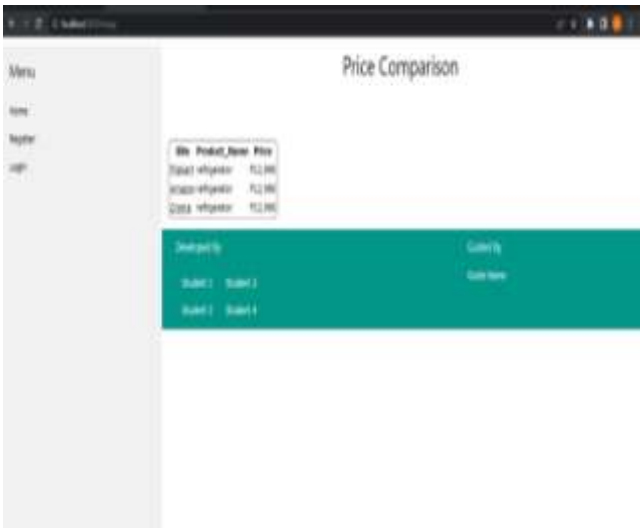
(Fig. 2) Login Page:

After registration our details, we have to enter our Username and Password to login the further process.



(Fig. 3) Upload image page:

After login we have to upload the selected Image for recognizing the image so it will predict our product.



(Fig. 4) Comparison Page:

After image predict we will get output in this type of price comparison.

V. CONCLUSION:

This project contains all details associatedrelated to the Recognition of object. The abstract, background and objectives will be thought-about because the summary of the project in the meantime the methodology half explains

in details what's the acceptable method chosen for this project to be completed.

It is additionally vital to induce reference from the previous analysis paper that's associated with the project. The literature review shows the analysis that has been done antecedent by alternative researchers. it's important to induce a lot of information during this topic so as to develop an eminent and well practical value comparison web site.

More analysis has to be wiped out order to induce the specified results as a result of completely different website uses its own formula to see however, once and from wherever it gathers costs. Therefore, it's important to induce the right thanks to retrieve the specified information consistent with what the user needs. so as to differentiate value comparison web site with alternative comparison sites in Asian country, this web site can specialise in the product to assist folks create knowledgeable call before creating purchase.

VI. REFERENCES:

[1]. "Retail e-commerce sales worldwide from 2014 to 2021", https://www.statista.com/statistics/379046/worldwide-retail-ecommerce-sales/

[2]. Henry C. B. Chan, Chris K. H. Chin and Benjamin Lam, "Price-comparison agents for MAGICS*", Hong Kong Polytechnic University, Hong Kong, IEEE 2001, https://ieeexplore.ieee.org/abstract/document/953739/similar/.

[3]. Grant, K.B (2008) [retrieved on June 20, 2012] – "Which Price Comparison Shopping is The Best?" at http://www.smartmoney.com/spend/family-money/whichc

[4]. Ahmad Pouramini and Shahram Nasiri, "Web content extraction using contextual rules", International Conference on Knowledge-Based modeling and Innovation, https://ieeexplore.ieee.org/document/7436183/, IEEE 2015.

[5]. Guowei Chen and Pengzhou Zhang, "The content extraction method of webpage information based on knowledge base", Fifth International Joint Conference on Computational Sciences and Optimization, https://ieeexplore.ieee.org/document/6274803/ , IEEE 2012.

IJEAST

INTERNATIONAL JOURNAL
OF ENGINEERING APPLIED SCIENCE
AND TECHNOLOGY

ABOUT IJEAST

International Journal of Engineering Applied Science and Technology (IJEAST) is a peer-reviewed, open access journal that publishes high-quality research papers in the field of Engineering, Applied Science and Technology.

IJEAST aims to provide a platform for researchers, academicians, and professionals to share their innovative ideas, research findings, and practical experiences with the global scientific community.

FOCUS AREAS

- Engineering
- Applied Science
- Technology
- Innovation & Development
- Interdisciplinary Studies

PEER REVIEWED
All submissions are rigorously peer reviewed to ensure quality.

OPEN ACCESS
Free and unrestricted access to research for all.

GLOBAL REACH
Connecting researchers and professionals worldwide.

TIMELY PUBLICATION
We ensure a swift and efficient publication process.

For more information, visit our website
www.ijeast.com

INTERNATIONAL JOURNAL
OF ENGINEERING APPLIED SCIENCE
AND TECHNOLOGY

editor@ijeast.com
www.ijeast.com
India

2455-2143