RJET Volume: 08 Issue: 04 | Apr 2021

www.irjet.net

Search Engine-Using Phonetic Search and Speech Recognition.

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Abstract - We have created a search engine using php, mysql, html and css. It contains a form which is used for saving a record's in database. A search form is created using html for user to enter his/her queries. Search function program is written in php with the help of metaphone function to find the relevant answer's to the queries of user. Even if user has entered misspelled words as query. This search engine also uses speech recognition and speech synthesis.

Keywords-Data insertion form, Database, search box metaphone, voice recognition, Solving query.

1. Introduction

Many of us may remember the old days when we had to look through a ton of pages to look only for the definition of plumber. But nowadays we can find anything on internet using search engine. That's why we believe that since the beginning of humankind we never had such powerful tool like search engine. A search engine is the web based tool user utilize to find certain information on internet. Crawler, search function and database are considered to be the most important component of any search engine.

Web crawler also known as search engine bots or search engine spiders when they visit any website or webpage they collect allit's content (Title, URL, Description, Keywords etc) and store it in databank. It also stores all the internal (hyperlinks that direct the reader to a target page on your website) and external links (hyperlink that directs the reader to a reputable page on a different website) present on the particular web page. Few popular web crawlers are Googlebot, Baidu bot, Yandexbot, Bingbot, sosobot etc.

Database is a collection of information, which is organized so that it can easily be accessed, managed and updated. We store all the necessary entities like title, url, keywords etc in database table. This database table is connected to the search function. Search function is an interface between user and search engine. When user enters queries in search bar than search function find and returns the relevant pages to the queries.

To provide above conditions we have written program in php, html and css which include a search function and a form for entering data to save records in database table and a search interface where user can enter the queries.

2. PROPOSED SYSTEM

We have created a Search Engine using php, mysql, html and css. Our project contains three fundamental modules:

- 1. Database
- 2 .Search engine
- 3. Browser

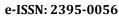
2.1Database:

We have created a database table to store all the data of the articles. It contains five column.

- i Article_Url:It is used to store the url of the articles.
- ii. Aticle_title:It is used to store the tite of the articles.
- iii. Article_ Content: It is used to store the content of the articles.
- iv. Article_Keywords:It is used to store the keywords for the articles.

e-ISSN: 2395-0056

p-ISSN: 2395-0072



p-ISSN: 2395-0072

v. Indexing:it is used to store the metaphone key (i.e.words are indexed by their English pronunciation) of the 'Article_Keywords' using metaphone function which uses phonetic algorithm.



(Sample image for database table)

2.2Search engine function:

A search engine function is created using php. In this function an input field is created for user to enter his query. Query which is entered in the input field is collected. Then queries words are splited with space and indexed by their englishpronounciation with the help of metaphone function in php. Once indexed,

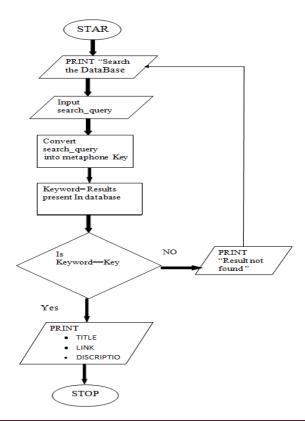
then search function searches through the 'indexing' column in databse table if the search query matches with the data in 'indexing' column then the search function will return that row as a result.

Search function also includes speech recognition and speech synthesis user can also search using his/her voice.

2.3 Browser (Chrome):

We are using the browser chrome for display the result according to the queries made by user. We can also use any other browser for the same. First user would have to go to our search page so that he/she can easily type the keywords according to the queries for finding the result.

3. FLOW CHART



e-ISSN: 2395-0056

p-ISSN: 2395-0072

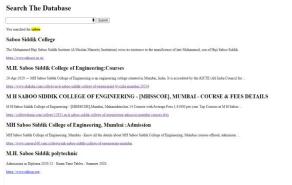
4. WORKING

In search engine we have created many pages for searching and storing data into the databases from which it will give the result on the users screen. We have use form page for storing data into database. In search engine we create function page for finding the accurate result from the database if there data is present then it shows on the screen otherwise it will reflect the 'Your search did not return any results'. For searching the result we have use keywords and then the keyword is split in the individual letter and the result is saved in the array.

Here query is generated for finding data from database: "SELECT title, description, url FROM articles WHERE indexing like '%\$search_string%'".

5. OUTPUT





6. CONCLUSION

Today's internet users are very positive about what search engines already do, and they feel good about their experiences when searching the internet. Search Engine is one of the most vital and powerful digital marketing tool for every business that desire to improve visibility and credibility of their brand on the Internet, especially in the increasingly competitive market. Search engine is also an affordable solution for small businesses and startups to promote their websites on the Internet as Search engine does not require large marketing budget they only need consistent efforts, patience and repetition to be success with Search engine.

ACKNOWLEDGMENT

We sincerely thank the faculty of computer engineering department at M.H.SABOO SIDDIK COLLEGE OF ENGINEERING for giving us the chance as well as the support to write this paper. With their active involvement and the right guidance this would not have been possible.

e-ISSN: 2395-0056 IRIET Volume: 08 Issue: 04 | Apr 2021 www.irjet.net p-ISSN: 2395-0072

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