Twitter Hash Tag

Final Report

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1) Project Description

The Twitter Hash Tag project stores the tweets and associated information of certain hash tag (#tag) into database. The API in this project takes the hash tag (#tag) and number of tweet as an input and gives the tweets and associated information of that hash tag (#tag) as output in JSON format.

2) List of Functional Requirements

System User:

1. System user should be able to add new hash tag.
2. System user should be able to delete hash tag.
3. System user should activate/deactivate and download hashtag.
4. System should be able to store tweets and associated information of user input hash tag.
5. System API should be able to give the tweets and associated information of requested hash tag in JSON format.

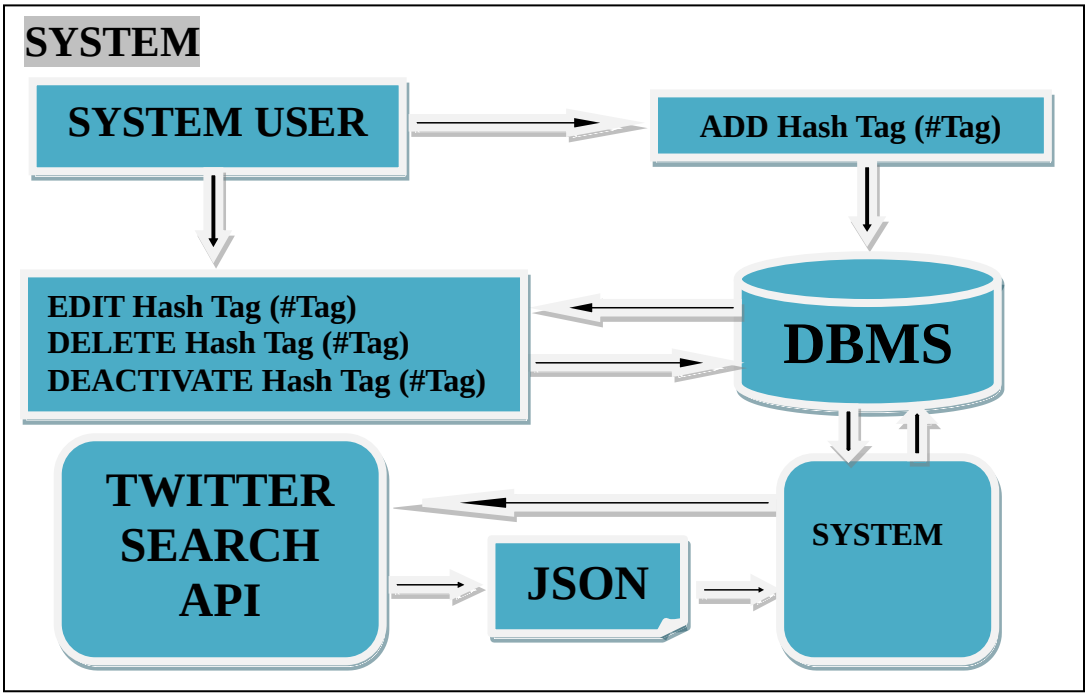
Client User:

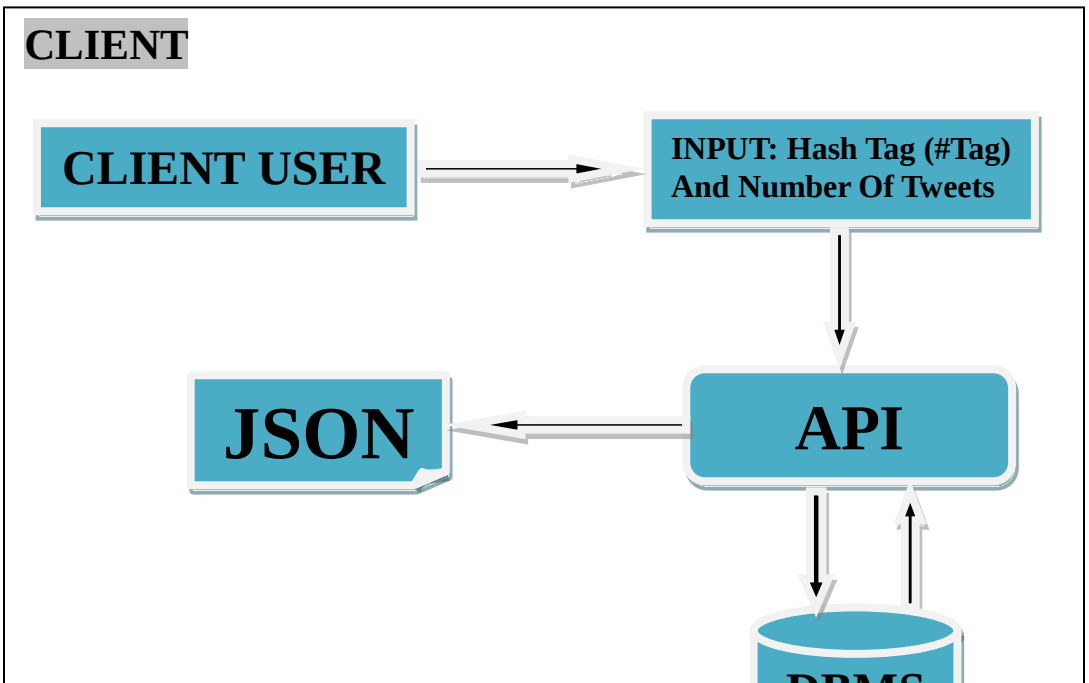
1. Client should be able to give hash tag and number of tweet to API.
2. Client should get output in JSON format.
3. Client should be able to view the list of hashtag and tweet of specific hashtag.

3) Technical Specifications

- Apache is used as web server.
- Php is used as core programming language for development.
- Mysql is used for database.
- Windows 7 OS was used during the development period.
- AJAX is used for making the project more user interactive.
- HTML/CSS was used for design.
- Javascript and Jquery is used for browser scripting language.
- During the development chrome browser was used.
- Notepad++ editor was used during development of project.
- Twitter SEARCH API is used to get the tweets of the HashTag.

4) Application Diagram





5) Benefits

The main benefit of this project is that it provides the tweets of certain hash tag which are older than a week.
It regularly stores the tweets of recorded hash tag.
User can embed this project in their site to get tweets.
API of this project gives output in JSON format.
User can download the tweets and its associated information in CSV format.

6) Tools And Technologies

a. Php 5.3.8
b. Apache Version 2.2.21
c. Mysql 5.5.16
d. HTML
e. CSS
f. Javascript
g. Jquery
h. Ajax

7) Duration

Project was started on 23rd May, 2012 and completed on 22nd Aug, 2012.

8) Approach to development

Reverse engineering Approach was used to develop the project.
First the coding was done for functional requirement.
After the function requirement designing for the user interface was done.
Finally, the documentation of the project was made.

9) Learning

a. **References**

http://www.w3schools.com/html/
http://www.w3schools.com/css/
http://www.w3schools.com/js

http://www.w3schools.com/php
http://www.w3schools.com/sql
http://www.w3schools.com/jquery
http://www.w3schools.com/ajax
http://php.net/
http://jquery.com/

b. Challenges

- To implement animation using jquery.
- To write program for search.
- To make slide show.
- To implement infinite scroll in project.
- To use AJAX in project.
- To hyperlink the link and hashtag in tweets give by search API.
- To make csv download.

All challenges were sort out by doing research over internet and studying the various sources and references and consulting mentor.

c. Opportunities

Learn Php in detail.
Learn HTML/CSS.
Learn Javascript.
Learn about jquery.
Learn about AJAX.
Work in new environment.
Learn more in the field of web development.
Learn how to tackle with new problem.

10) Output Resources

Output of the project are:

a. API gives the JSON format output of API.
b. Interface to add, delete, download, search, and activate/deactivate hashtag for Admin.
c. Interface showing the list of tweets of specific hashtag which also allow adding, deleting, activate/deactivate and searching all hashtag for admin user.
d. Interface for public user showing all active hashtag.
e. Interface for public user showing tweets for specific hashtag.
f. Provide the embed code.