

WEB TRAFFIC REDUCTION FOR INFREQUENT UPDATE APPLICATION USING GREEN AJAX

SRIHARI R , K. RENUKA

Abstract— The classic web applications usually need a lot of bandwidth to provide the rich user interfaces. Since Ajax was introduced, it has reduced the web server load and the data transfer to/from users' computers. By using Ajax, only a specific part in the web page can be requested to the web server. However, it still cannot provide the real time data updating. The common approach to provide the real time data updating uses a timer to request a new data from the web server periodically. But, the requests sometimes do not get any new data. If the interval time to renew the data is too long, the data updating will come to the client late and some data received by the client may be lost. The proposed approach to solve the problem is creating an Ajax application which can receive a signal from the web server. The received signal will trigger the web application to renew the data from the web server. By limiting of requests to the web server only if a new data in the web server arises, as a consequence the traffic between the web server and the client can be reducible. The efficiency of web traffic will be measured by two matrices, the successful receptive percentage of the web application request to the web server and the bandwidth consumption of web application. In this research, an innovation of Green Ajax will be proposed.

Keywords — Web Application , Ajax , Web Server , Web Client , Bandwidth.

I. INTRODUCTION

The classic web applications usually need a lot of bandwidth to provide the rich user interfaces. Since Ajax was introduced, it has reduced the web server load and the data transfer to/from users' computers. By using Ajax, only a specific part in the web page can be requested to the web server. However, it still cannot provide the real time data updating.

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II. SYSTEM DEVELOPMENT

1) Existing System:

The existing techniques on keyword-based information retrieval, which are widely used on the plaintext data, cannot be directly applied on the encrypted data. Downloading all the data from the cloud and decrypt locally is obviously impractical. All these multi keyword search schemes retrieve search results based on the existence of keywords, which cannot provide acceptable result ranking functionality. However, sensitive data should be encrypted before outsourcing for privacy requirements, which obsoletes data utilization like keyword-based document retrieval.

Drawbacks:

- High resource costs it requires for the implementation.
- limited computational power
- Special training needed for using the system
- Not have a better search option for finding available product of company

Srihari R, Student, M.Sc Computer Science, Rathinam College of Arts and Science, Coimbatore, Tamil Nadu, India – 641021, (e-mail: haricharan2209@gmail.com).

Mrs. K. Renuka, Head of the Department, Department of Computer Science, Rathinam College of Arts and Science, Coimbatore, Tamil Nadu, India – 641021, (e-mail: hod.csc@rathinam.in).

2) *Proposed System:*

The proposed system using the Green Ajax to retrieve the data. We construct a special tree-based index structure and propose the proposed scheme can achieve sub-linear search time and deal with the deletion and insertion of documents flexibly. Extensive experiments are conducted to demonstrate the efficiency of the proposed scheme.

Advantages of Proposed System:

- Avoiding local storage of data.
- By reducing the costs of storage, maintenance and personnel.
- Using low bandwidth.
- Very accuracy output.

III. PROPOSED MODULES

Module Description:

1. Login
2. Home Page
3. Electronics Accessories
4. General Accessories

A. Description of Modules:

1) Login:

The user login module contains the details of the user login process after their user registration it classified into two type as parent and staff for view and edit the employee data through the online. The administrator controls are different for system and organization admits, as shown in the figure "Different Manage Menus for Different Admin". Organization administrators can manage users, roles, and sub organization, but only within their organization. System admin can manage top-level organizations, as well as users and roles in any organization. In addition, only system admin have access to the server-wide settings that apply to logs. This module contains the details of the dynamic website home page linked with its contents. The about us module contains the details about the organization, Infrastructure of the organization. Designating administrators can help you manage your Company Page. Only certain types of administrators can add other admits, post updates, post updates, and edit your Company Page.

2) Home:

This module contains the details of the dynamic website home page linked with its contents. The about us module contains the details about the organization, Infrastructure of the organization.

3) Electronics Accessories:

This module is show the image of electronics items and that information's, for ex item id, brand name, price and etc. The information consisted of basic information such as phone number, address and courses available. The information which we were looking forward was not available. This is show the image of Tv and home appliances and that information's, for ex item id, brand name, price and etc.

4) General Accessories:

i) Men

This module is show the image of men's wearing materials and that information's, for ex item id, brand name, price and etc. Clothing (also known as clothes and attire) is a collective term for garments, items worn on the body. Clothing can be made of textiles, animal skin, or other thin sheets of materials put together. The wearing of clothing is mostly restricted to human beings and is a feature of nearly all human societies. The amount and type of clothing worn depend on body type, social, and geographic considerations. Some clothing can be gender-specific.

User will first need to sign up on the website and if already signed in then he would need to login every time the user visits the website. The user can use the services of the website and could find information about the desired user. There will be a special feature that user can interact with to get information with the help of a chat bot.

ii) Women

This module is show the image of women's wearing materials and that information's, for ex item id, brand name, price and etc. Children's clothing is often more casual than adult clothing, fit for play and rest. Hosiery is commonly used.

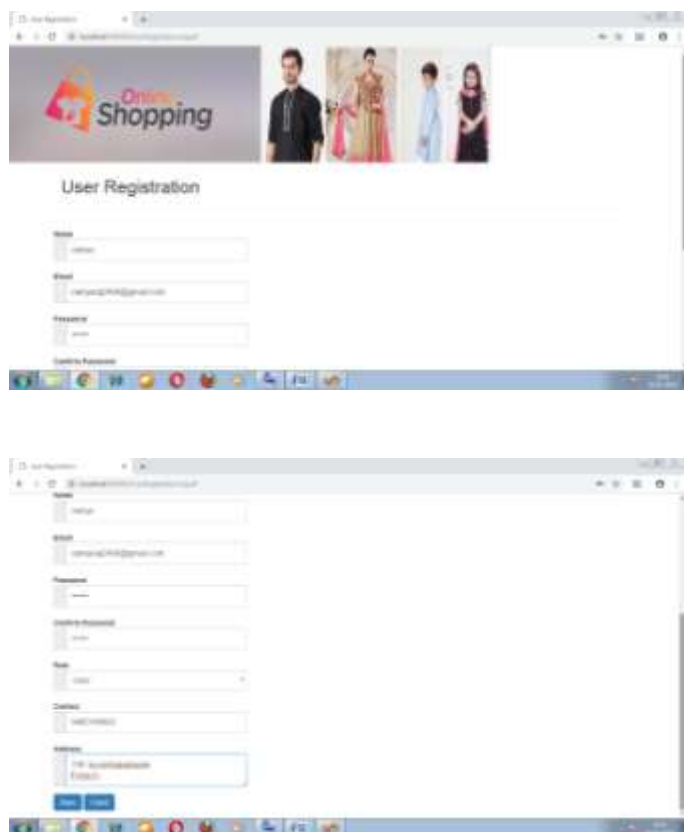
Nowadays a lot of kids wear are very much influenced by trends in adult wear. Good quality well designed garments are a priority for a growing number of parents and children's clothing is getting prime place in top label stores and high end fashion retail outlets.

iii) Kids Collections

This module is show the image of Kids wearing materials and that information's, for ex item id, brand name, price and etc. More recently gender-specific children's clothing has become a contentious issue. According to some feminist thinkers, children's clothing has become increasingly segregated, with young girls especially being expected to wear pink. Peggy Orenstein writes in her book, Cinderella Ate My Daughter, that pink-colored and princess- themed clothes are almost ubiquitous for young girls in shops in America. She sees this as problematic because it limits girls to not only one color.

IV. EXPERIMENTAL RESULTS

1) Registration:



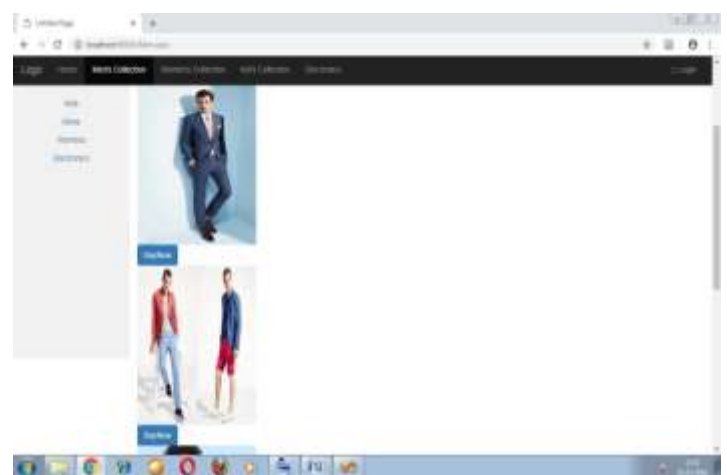
2) User Login:



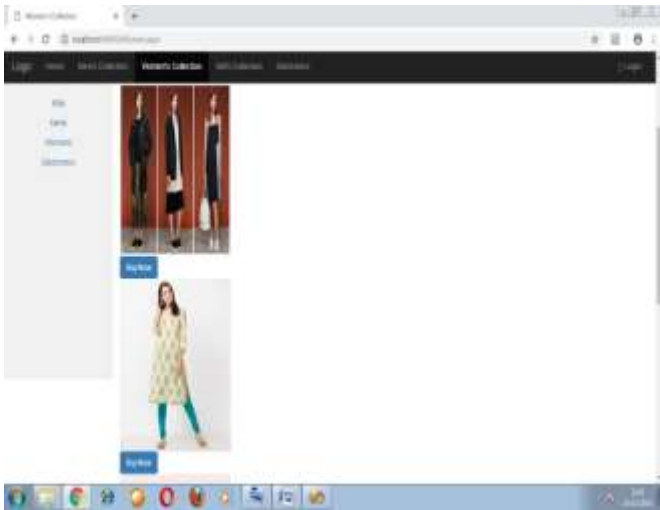
3) User Page:



4) Men's Collection:



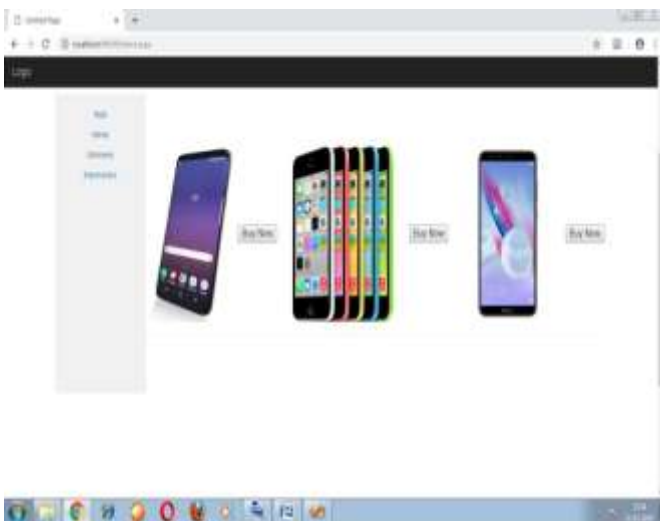
5) Women's Collection:



6) Kid's Collection:



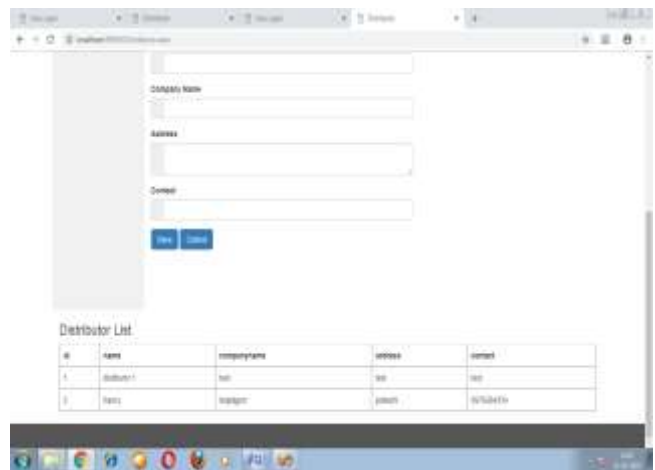
7) Electronics Collection:



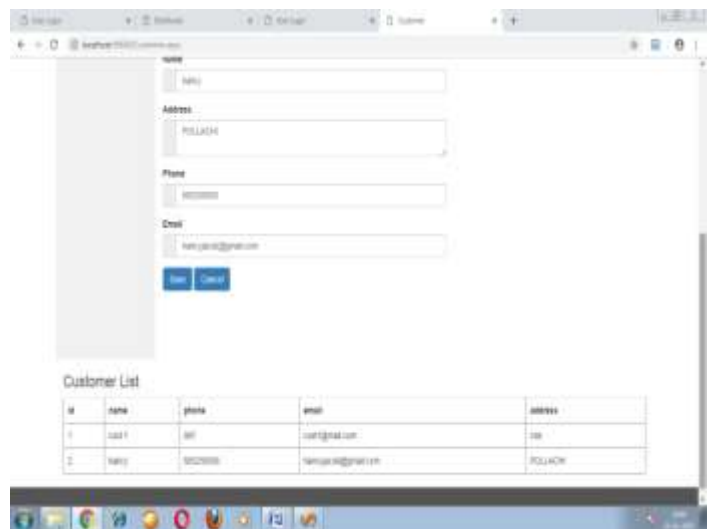
8) Admin:



9) Stock:



10) Distributor:



V. CONCLUSION

The “Web Traffic Reduction for Infrequent Update Application Using Green Ajax” has been developed to meet almost all the requirements of the user. The system is tested with the sample data and found to be executing at its maximum performance. The software enables the organization to carry out the daily transaction and preparing the report effectively after the implementation. The implementation of Green Ajax is not limited to the media used for data transmission. Green Ajax performance in wireless Local Area Network is as good as tested on the wired LAN. By using Randomized Cue Applications, the real-time data will be showed on screen using less bandwidth. The bandwidth reduction is caused by two main reasons. First, not all portion of page should be updated. The technique to update on specific part of page can be done by collaboration between the XMLHttpRequest Second, the number of requests to the server has been reduced by the clients. The cue from a server arises to tell the client to make requests. The technique will consume bandwidth only if there are any updates.

SCOPE FOR FUTURE ENHANCEMENT

The software is capable for handling all the activities performed by this concern. Apart from this, the other modules that can be incorporated. The vehicle sales, spare sales and service maintenance are a very tedious process, since they have to maintain several ledgers. If this module is also linked to the existing modules, then the work of the staff reduced a lot. More over, the pay bill modules could also be computerized and included with this software to complete the computerization process in this concern. By using Randomized Cue Applications, the real-time data will be showed on screen using less bandwidth. The bandwidth reduction is caused by two main reasons. First, not all portion of page should be updated. The technique to update on specific part of page can be done by collaboration between the XMLHttpRequest Second; the number of requests to the server has been reduced by the clients. The cue from a server arises to tell the client to make

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