DONORS AND SEEKERS: AN ONLINE PLATFORM FOR DONATION

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Abstract : The growth of waste especially e-waste in India is increasing exponentially every year. Sometimes, the item that is considered as waste and is to be thrown away is in good working condition and it may be of use to some other person. So, rather than considering it as waste, it can be used for donation to the person who actually needs it. An online Web Application-Donors and Seekers is to be developed to interact digitally for a social cause of donation and decreasing the pollution. It is a platform with priority algorithm to help the Charity Organizations, NGOs, Self-Help Groups, Persons with Disabilities, and other people (Seekers) to find donations easily.

The items included for donations are books, household items, electronics, sports equipment, couches, toys, etc. This Web Application is the solution to a commonly occurring problem of the platform not being provided for donation. This application can be accessed from any part of the world.

Keywords: Web application, Web and internet services, J2EE, MVC pattern, Servlet, JSP, Containers, Environmental management, Availability, Security, Data Structures, Ubiquitous Computing and Multicore Processing.

1. INTRODUCTION

As e-waste is a major problem in today's world and also there is no online platform available for donation of waste or used items so this system is to be developed for donors and seekers to interact with each other for a healthy cause of recycling, reducing wastage and reusing of items. It is made with the mission and vision to provide a digital platform for people and organizations to contribute to the society and environment. The item that is considered as waste and is to be thrown away is in good working condition and it may be of use to some other person. So, rather than considering it as waste, it can be used for donation to the person who actually needs it.

This website enables any user to donate and seek items from any corner of the world but, donations will be based on priority algorithm and will also be area dependent. Once registered to database, donor can add items for donation and seeker in the area nearby can seek those items.

This website will be web based and structural system design developed with the criteria to make the process of donations easy and available online.
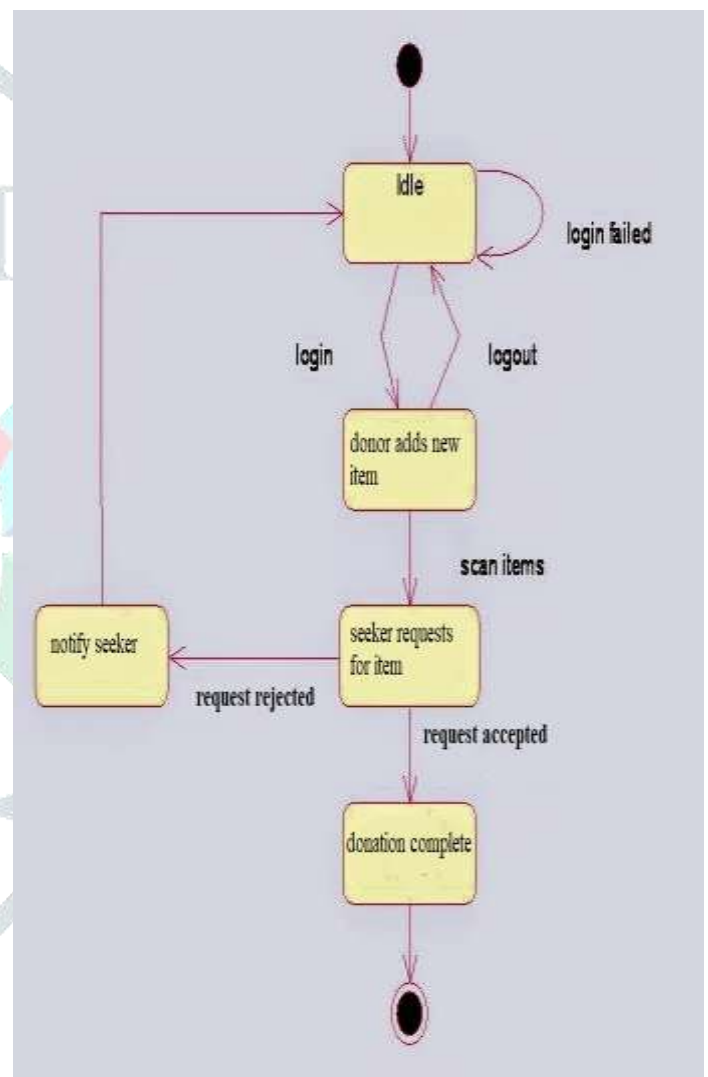
Basic Structure:

fig.: state diagram

2. PROPOSED METHODOLOGY

This system operates as an online donation platform for used/waste items including books, household items, electronics, sports equipment, couches, toys, etc.

Proposed System:

To overcome these flaws of the existing manual system, there is need for a complete web based online system to be developed which can help in proper management, tracking and reporting the solution.

The system is designed to support the following features:

1. Number of user can access the system simultaneously.
2. The system provides an interactive screen to the most normal user.
3. Allows admin to manage the user and add the user rights such as add a priority donor after manually checking of the required documents on the basis on following criteria:
    1. Charity Organizations.
    2. Non-Profit Organizations.
    3. Self Help Groups.
    4. Person with disabilities.

3. TECHNOLOGY STUDY

Technologies which will be used to develop this application:

         1. Java
         2. JSP and Servlet Technology(J2EE)
         3. Java Script
         4. MySQL
         5. CSS
         6. AJAX

We will use HTML as front-end, JSP/Servlet Technology as middle-end and MySQL Database as back-end for the application.

4. DESIGNING A J2EE APPLICATION

1. Use Case Analysis: Identification of operations that each component will perform.
2. Decide how to distribute application functionality across tiers.
3. JSP or Servlet ca access the database using JDBC, without interfacing with EJB tier.
4. Creating EJB relieves developer from task of managing transaction.
5. MVC architecture given below in the figure outlines a best practice for dividing these processes based on most suitable J2EE components.
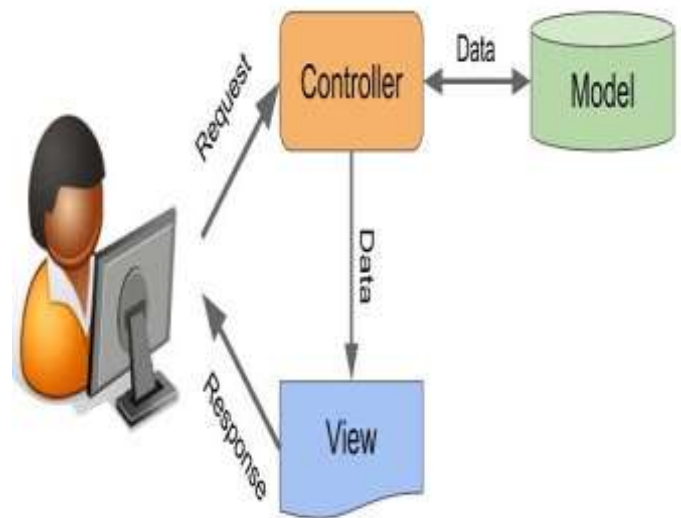
fig.: mvc architecture

5. RESULTS

In Donors and Seekers: An online platform for donation, we have made donations easy and user friendly. Waste and especially e-waste will reduce drastically, because it will get donated. We are using priority algorithm, so that charity organizations, NGOs, self-help groups, person with disabilities and normal individuals can find donations easily.

REFERENCES

[1] Vincent Chan, Tony Hao Wu, Grantham Pang Design intelligence of web application for Inter- net direct consumer-to-consumer trading" ,2015 International Conference on Information Networking (ICOIN).
[2] T.C.Shan, Taxonomy of Java Web Application Frameworks", International Conference on e-Business Engineering, Shanghai, China, 2006.
[3] Vincent Chan; Tony Hao Wu; Granfham Pang Decision support and data mining for direct consumer-to-consumer trading" The 9th International Conference for Internet Technology and Se- cured Transactions (ICITST-2014).
[4] Okanovic, Web Application Development with Component Frameworks.
[5] Matija Novak, Ivan vogor, Current usage of component based principle for developing web applications with frameworks: A literature review.

[6] Mohammed Misbahuddin, P. PREMCHAND, A. GOVARDHAN, A user friendly password authenticated key agreement for web based services.

[7] O. Chebaro; L. Broto; J. -P. Bahsoun; D. Hagimont, Self-TUNe-ing of a J2EE Clustered Application.

[8] Web Application Framework (http://docs.oracle.com/cd/E19454 01/8190726/s1afovew.html)

[9] Open Source Web Frameworks in Java (http://java-source.net/open-source/webframeworks)

[10] Bergsten, Hans, JavaServer Pages, O'Reilly, 2000.