

References

- [1] Balsamiq free mockup service; Balsamiq studios; [Online] Available at: <http://balsamiq.com/> ; <http://builds.balsamiq.com/b/mockups-web-demo/>
- [2] Consumer Electronic Association (CEA) [Online] Available at: <http://www.ce.org/>
- [3] LG; Internet refrigerator demo [Online] Available at: http://us.lge.com/www/product/refrigerator_demo.html
- [4] K. Julian; The Statistician; 1987; Statisticians: Keep it simple; [Online] Available at: <http://www.jstor.org/pss/2348659>
- [5] PC Magazine; www.pcmag.com; [Online] Available at: http://www.pcmag.com/encyclopedia_term/0,2542,t=consumer+electronics&i=40255,00.asp
- [6] ASP.NET community forum [Online]; <http://www.asp.net/community/projects?tabid=62>
- [7] QuickMBA strategic Management [Online] Available at: <http://www.quickmba.com/strategy/porter.shtml>
- [8] Survey monkey; [Online] Available at: www.surveymonkey.com
- [9] Product customer matrix; [Online] Available at: <http://blog.vovici.com/blog/bid/18075/Product-Customer-Growth-Matrix>
- [10] The literature review: a few tips on conducting it; University of Toronto; [Online] Available at: <http://www.writing.utoronto.ca/advice/specific-types-of-writing/literature-review>
- [11] Cooper, H. (1998). Synthesizing Research: A Guide for Literature Reviews; [Online] Available at: [http://books.google.co.uk/books?hl=en&lr=&id=nZMDGRmUddQC&oi=fnd&pg=PP13&dq=Cooper,+H.+\(1998\).+Synthesizing+Research:+A+Guide+for+Literature+Reviews&ots=ybwWDoJWHb&sig=Nj7Do60JvEKSSMTNV_UomOVioa4#v=onepage&q&f=false](http://books.google.co.uk/books?hl=en&lr=&id=nZMDGRmUddQC&oi=fnd&pg=PP13&dq=Cooper,+H.+(1998).+Synthesizing+Research:+A+Guide+for+Literature+Reviews&ots=ybwWDoJWHb&sig=Nj7Do60JvEKSSMTNV_UomOVioa4#v=onepage&q&f=false)
- [12] Emerald insight; How to write a literature review; [Online] Available at: <http://www.emeraldinsight.com/authors/guides/write/literature.htm>
- [13] David J. Solomon; Conducting Web Based Surveys; [Online] Available at: http://cogprints.org/2357/1/Web_Survey_Article.pdf
- [14] Firts Scheuren, Robart Ferber, Paul Sheats, Anthoney Turner, and Josep Waksberg; 1980; American Statistical Association (ASA); what is a Survey, vol19 No 1; [Online] Available at: http://whatisasurvey.info/downloads/pamphlet_current.pdf

- [15] Software Engineering Specialization [Online] Available at:
<http://www.idi.ntnu.no/grupper/su/fordypningsprosjekt-2004/LerengFugelseth2004.pdf>
- [16] Codenomicon Ltd., Finland – Robustness Testing – Theory and Practice
[Online] Available at: <http://www.codenomicon.com/robustness.html>
- [17] Wikipedia– The Free Encyclopedia
[Online] Available at: http://en.wikipedia.org/wiki/Main_Page
- [18] Vicki Crompton, Mike Sivyer; 2005; Statistic Canada; Survey Life Cycle
Firts Scheuren, Robart Ferber, Paul Sheats, Anthony Turner, and Josep Waksberg; 1980;
Section on Survey Research Methods; 1997; American Statistical Association (ASA);
How to Plan a Survey; [Online] Available at:
<http://www.webpages.uidaho.edu/~redgeman/Sampling%20PDF%20Files/survplan.pdf>
- [19] Paul P. Biemer, Lars E. Lyberg; 2003; Introduction to Survey Quality; ISBN 0-471-19375-5
- [20] Tom W. Smith, Barbara Bailar, Mick Couper, Donald Dillman, Robert M. Groves, William D. Kalsbeek, Jack Ludwig, Peter V. Miller, Harry O'Neill, Stanley Presser; 1998 - 2011; Standard Definitions: final dispositions of case codes and outcome rates for surveys; The American Association for public opinion research.
- [21] Bob e. Hayes; 1963; Measuring Customer satisfaction surveys: Survey design, use and statistical analysis tools; ISBN 0-87389-362-X
- [22] Leo M. Harvill; An NCME Instructional module on: Standard Error of Measurement; East Tennessee State University; [Online] Available at:
<http://www.ncme.org/pubs/items/16.pdf>
- [23] Fundamentals of Web Application Performance Testing [Online] Available at:
<http://msdn.microsoft.com/en-us/library/bb924356.aspx>

My Survey - Web survey: <http://www.surveymonkey.com/s/9GYLSKO>

Question 1

Product Based Survey System for Intelligent Electronic Appliance

1 Age (Year)

- 17-20
- 21-24
- 25-34
- 35-44
- 45-54
- 55 above

Next Previous

Survey by SurveyMonkey

Question 2

Product Based Survey System for Intelligent Electronic Appliance

2 Gender

- Male
- Female

Next Previous

Survey by SurveyMonkey

Question 3

Product Based Survey System for Intelligent Electronic Appliance

3. Highest Educational Level

- High School
- College
- Diploma Level
- Under Graduate Diploma
- Under Graduate
- Post Graduate Diploma
- Post Graduate Degree

Next Previous

Survey by SurveyMonkey

Question 4

Product Based Survey System for Intelligent Electronic Appliance

4 What is the best way to conduct a survey

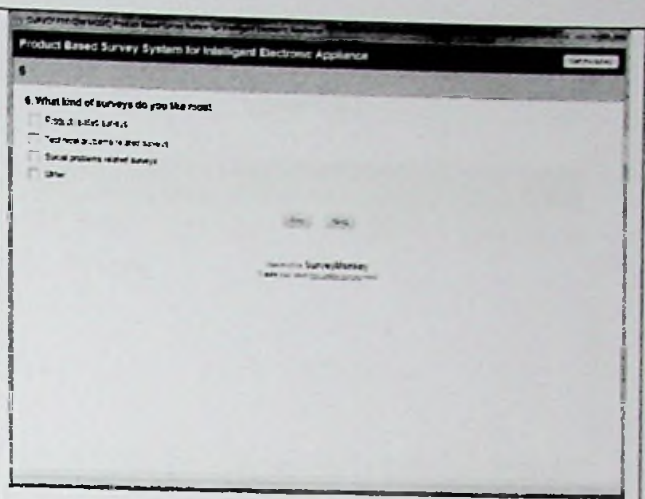
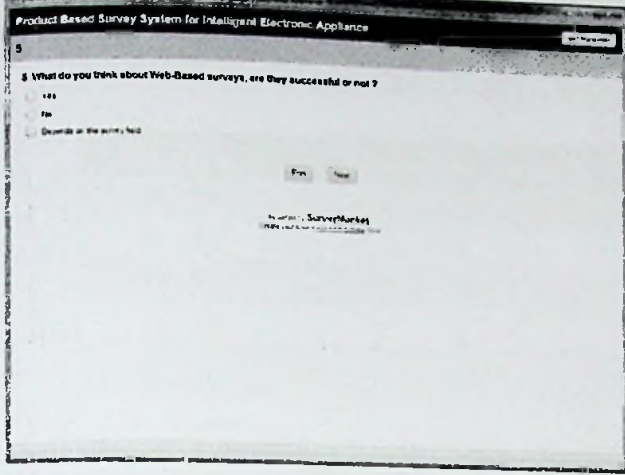
- In-person
- Telephone
- Mail
- Other (Please specify)
- Web and email

Next Previous

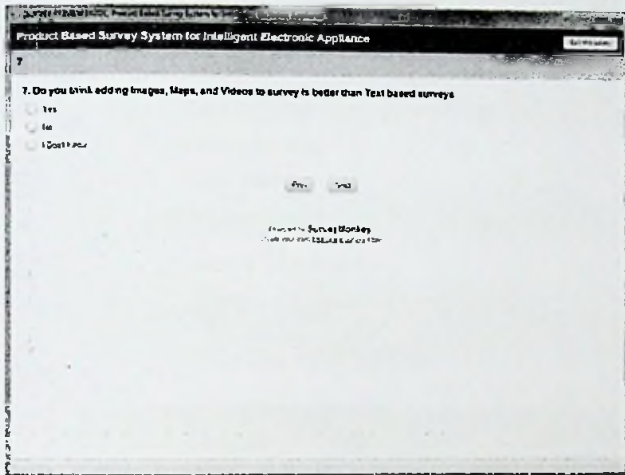
Survey by SurveyMonkey

Question 5

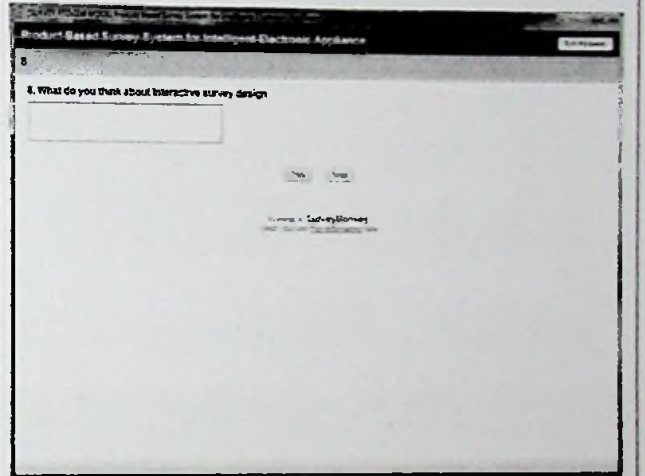
Question 6



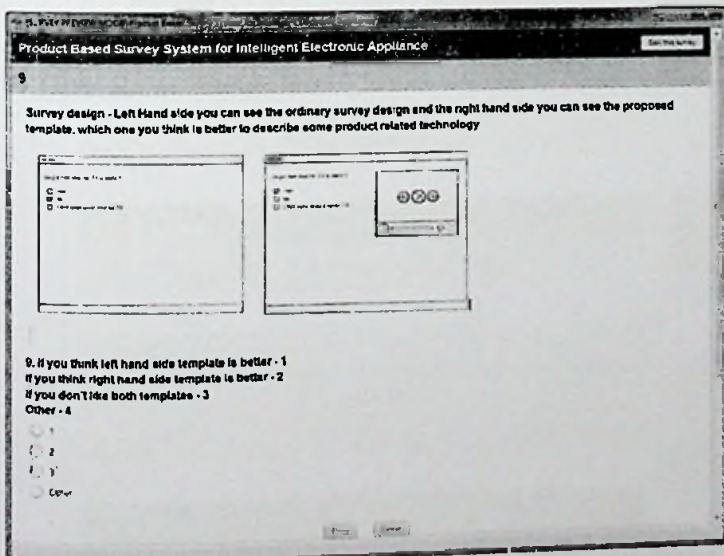
Question 7



Question 8



Question 9



My Survey Results – Web Survey Results

Question 1		Question 2	
Answer	Number of answers	Answer	Number of answers
17 - 21	1	Male	23
22 - 26	9	Female	11
27 - 31	23		
31 - 35	6		
36 - 50	5		
51 - above	2		
Question 3		Question 4	
Answer	Number of Answers	Answer	Number of answers
High School	2	In-person	12
College	3	Telephone	4
Diploma Level	2	Mail	6
Undergraduate Diploma	4	Other Printed Media	5
Undergraduate	15	Web and Internet	36
Postgraduate Diploma	1		
Postgraduate Degree	15		
Question 5		Question 6	
Answer	Number of Answers	Answer	Number of Answers
Yes	20	Product related surveys	28
No	2	Technical problems related problems	15
Depends on the Survey Field	18	Social problems related surveys	10
		Other	8
Question 7		Question 8	
Answer	Number of answers	Number of Participants	Total number of complete answers
Yes	29	47	40
No	8		
I don't know	3		
Question 9		Total Number of Request (Sample size) <u>100</u>	
Answer	Number of Answers	Number of Response 47	
1	2	Number of Complete Response 40	
2	21		
3	0		

4 - Other	1

Product Based Survey System

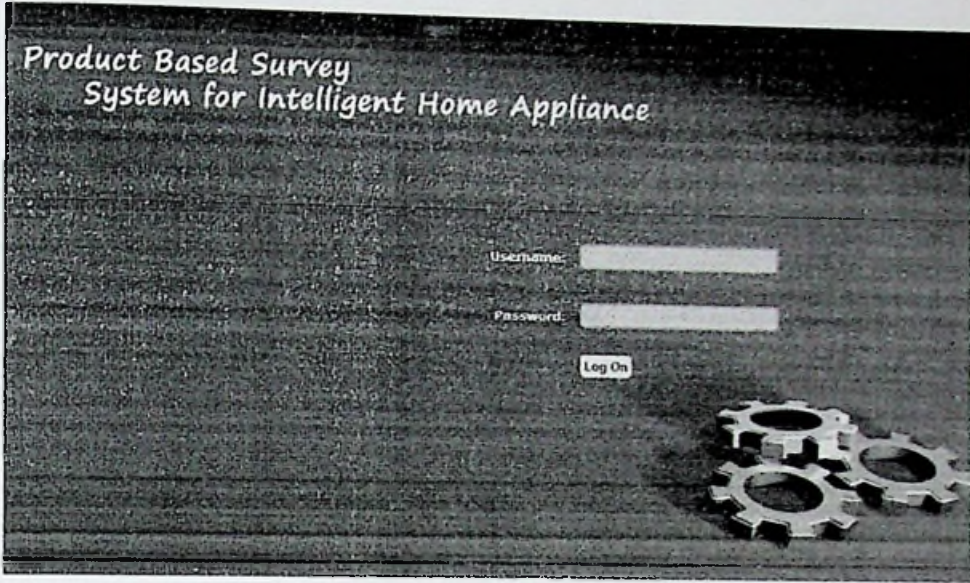
User Manual

University of Moratuwa

August 2013

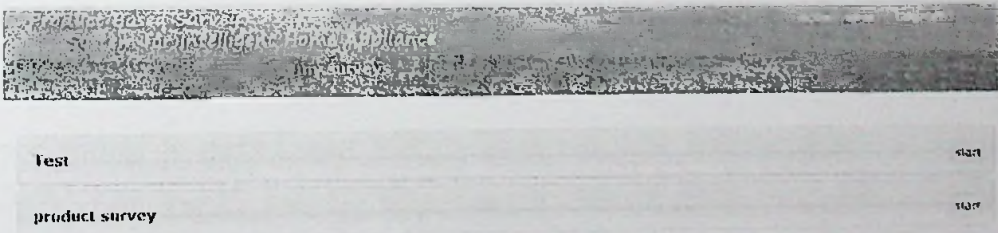
1.0 System Log in

This system consists with different type of users, mainly super user (admin) and standard user. Basically super user functions will be different from standard user functions.



Log on screen will be displayed to the user. Use your Username and Password in order to log in and if you don't know your username or password please contact the administrator.

1.1 User Home



User will be prompt to this page once they have logged on to the system and user name will be displayed with welcome message.

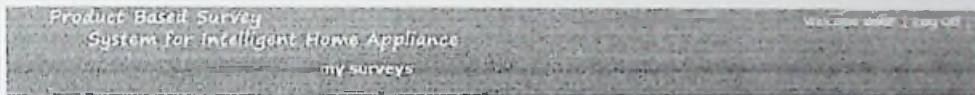
1.2 User Functions

1.2.1 How to participate on web surveys

product survey	start
Home Appliances	start
Interactive survey	start

User's are allowed to participate on web surveys. Available surveys will be displayed on "My surveys" section, click on "start" button to participate

1.2.2 View Questions and Answers



Questions marked with (*) are mandatory
What type of House hold items used @ home



- Camera
- freezer *
- Television
- Aircon

Once survey is started, user will be prompted with survey questions. User can select a particular answer by keeping the mouse pointer on given check box or radio button. (*) fields are mandatory.

1.2.3 Move on with Questions and Answers

What's your fav TV brand?

SHARP

SAMSUNG

Panasonic

TOSHIBA LG

SONY

PHILIPS

- Sharp
- Toshiba
- Sony
- LG

submit

Users can continue with selecting answers to each question and once complete, select “submit” button to finish the survey.



you have successfully finished the survey

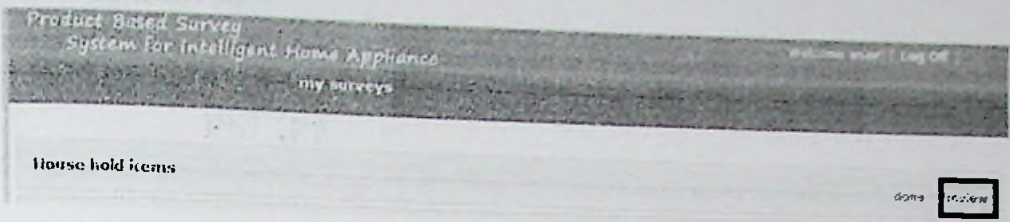
User will get an display message once they have finished the survey “you have successfully finished the survey”.



1.2.4 Review and edit answers



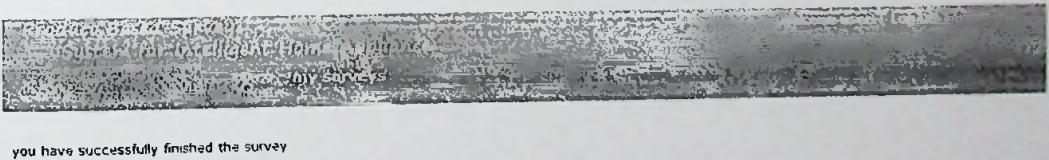
Click on “my survey” tab in order to view all the participated surveys



Click on “review” button, in order to review the answered questions

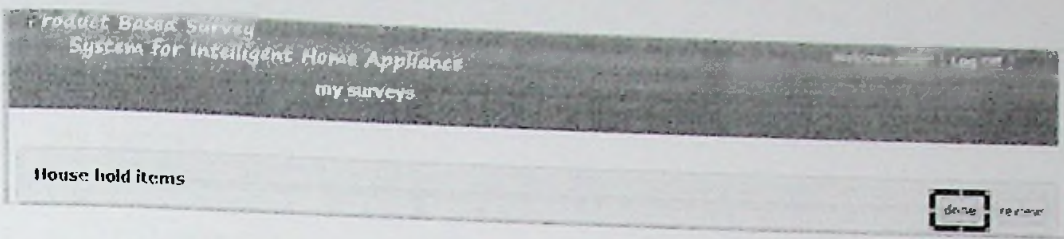


User will be able to review their answers and resubmit the survey data if there are any changes to the answers. Click on “submit” button to resubmit the changes.



User will get an display message once they have completed the re submission “you have successfully finished the survey”.

1.2.5 Complete the Survey



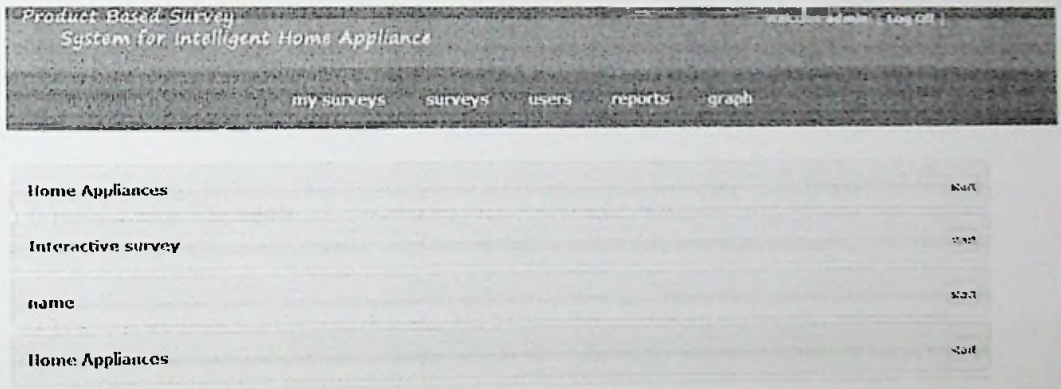
Select "done" to complete the survey, so this survey will no longer displayed on "my surveys" once selected as "done"

1.3 User log off



Select "Log Off" to sign off from the system

2.0 Administrator Home



Administrator will be prompt to this page once they have logged on to the system and user name will be displayed with welcome message. There are number of menu options available for the administrator.

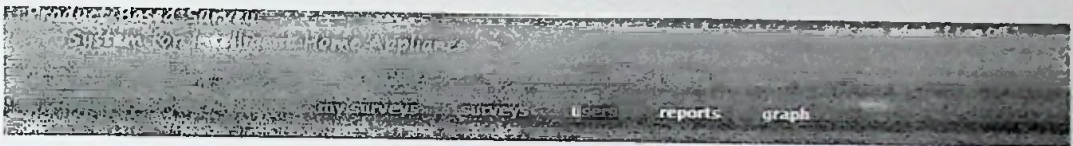
2.1 Administrator Functions

Following functions are available for the survey administrator

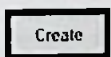
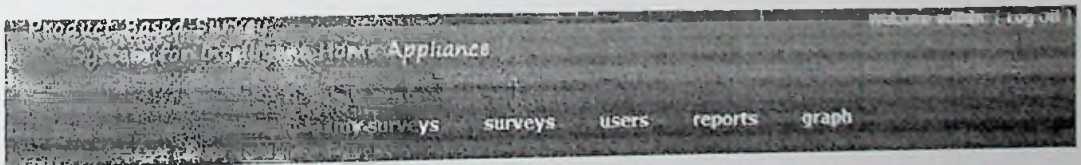
1. Surveys
2. My Surveys
3. Users
4. Reports
5. Graph

2.1.1 Surveys

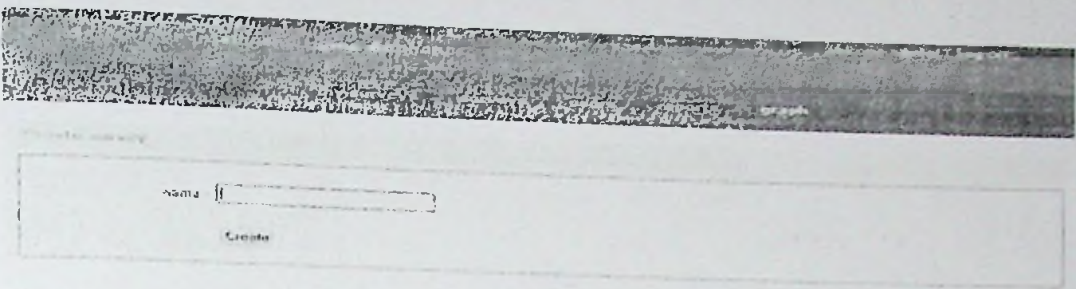
Admin user will be able to create/activate/edit or delete surveys



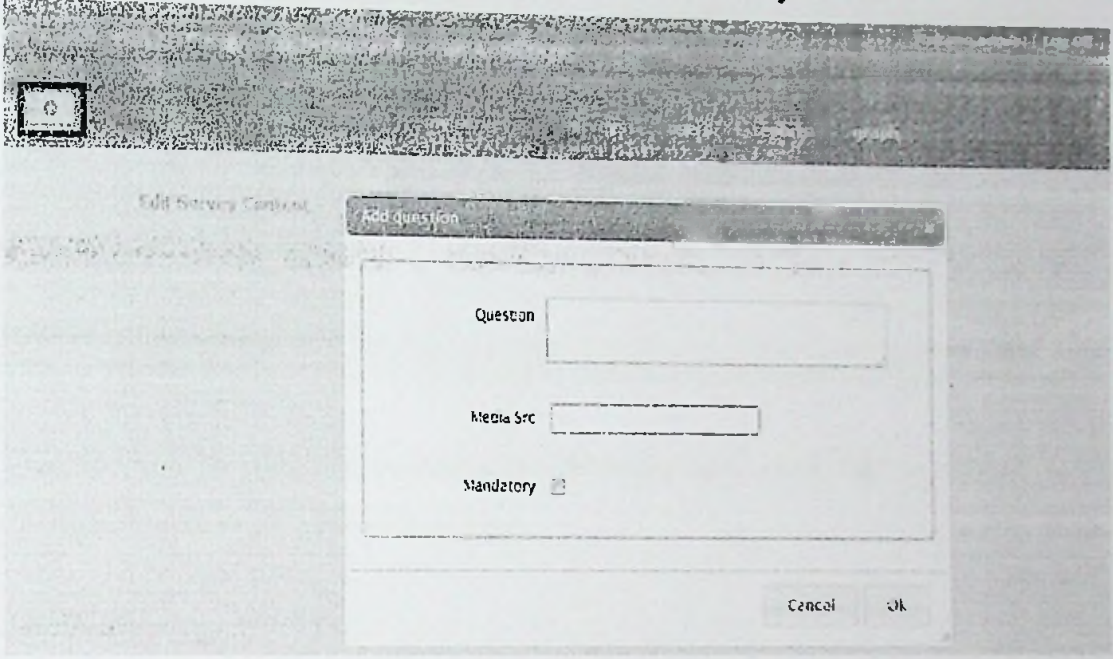
2.1.1.1 Create Surveys




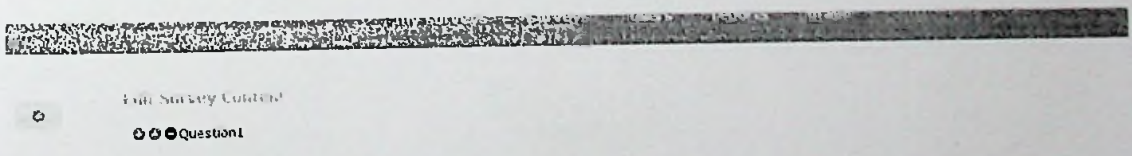
Administrator user will be able to create new surveys, click on "Create" button to create new survey



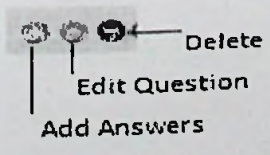
Key in any survey name and select “Create” button to create survey



Select  button to add survey Question and image/video link, then mark it as mandatory by selecting the check box or leave it as blank. Select “ok” to submit the question or cancel to exit from the window.

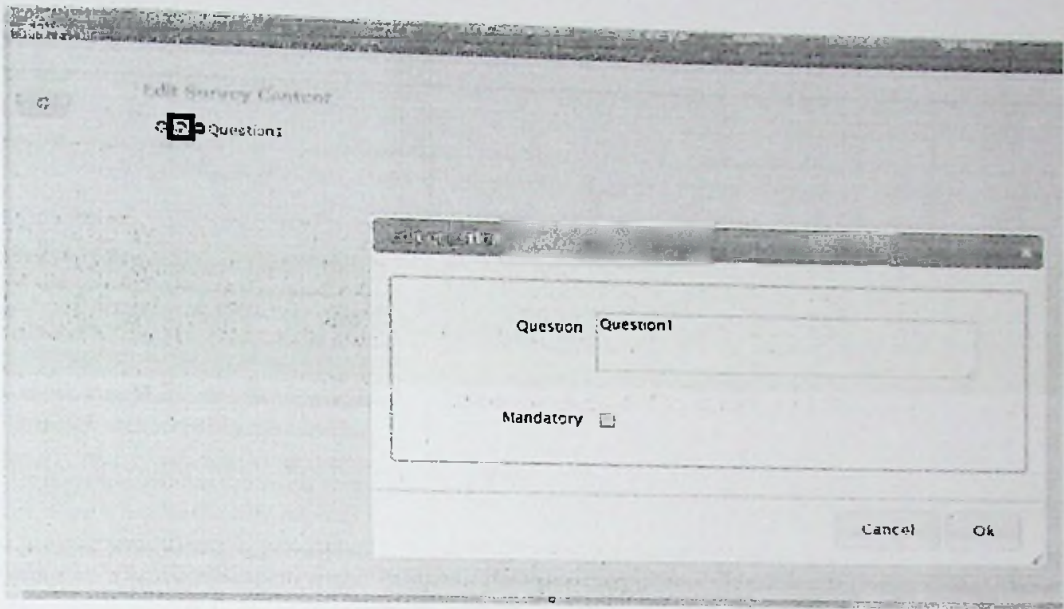



Admin user will be prompt to the above screen, once question has been submitted



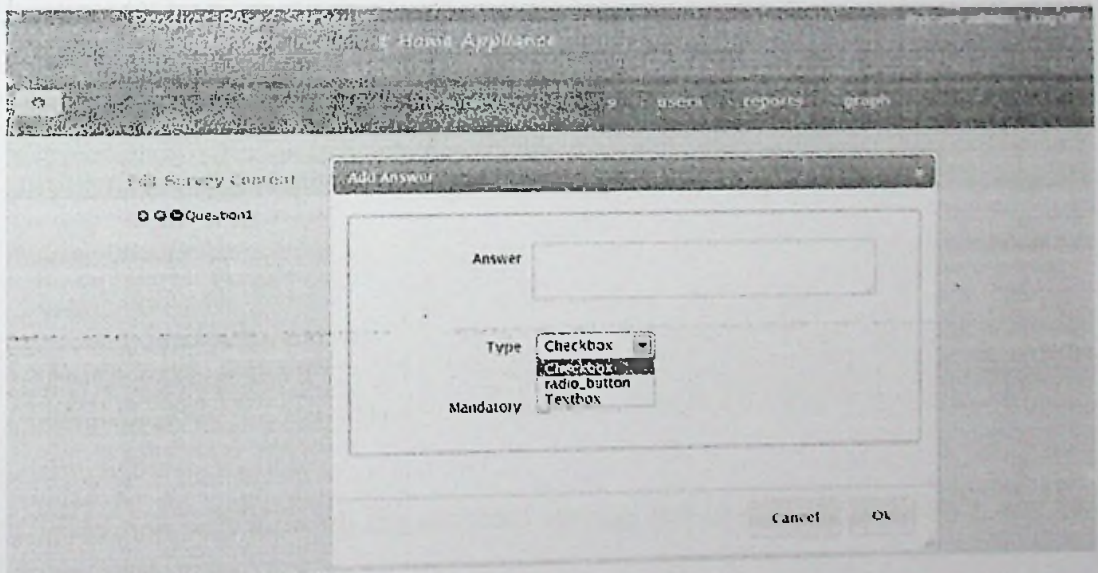
Admin user can edit/delete or add answers to the submitted questions


Edit survey Questions




Question can be edited by selecting the  button and select "ok" to submit or select "cancel" button to exit from the window.

Add Answer

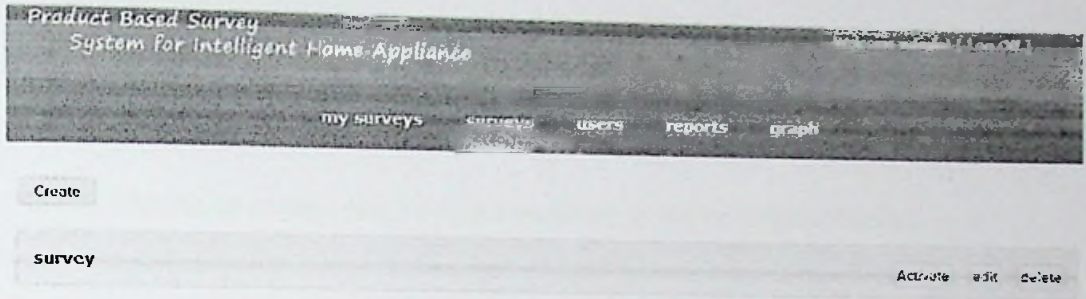


Select  button to add Answers to the each question. Answer can be key in to the text filed provided and answer type can be selected from the type drop down section. Select "ok" to add the answer or cancel to exit.

Delete Question

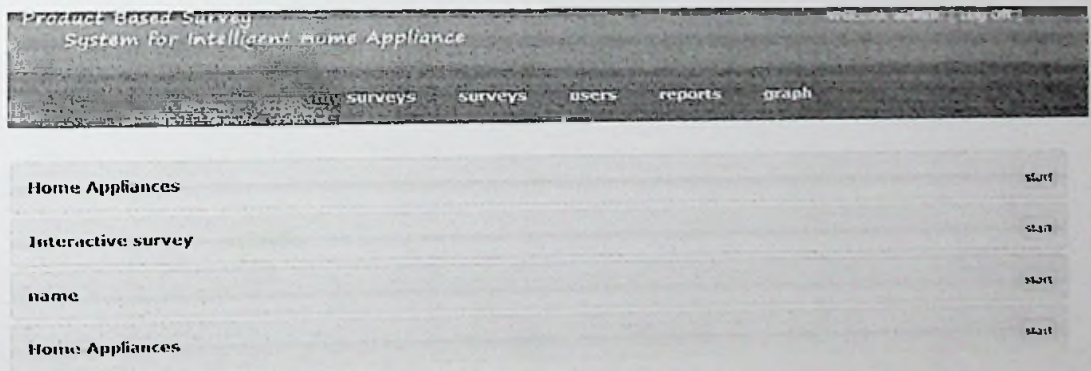
Select  button to delete the question from the system

Activate Survey



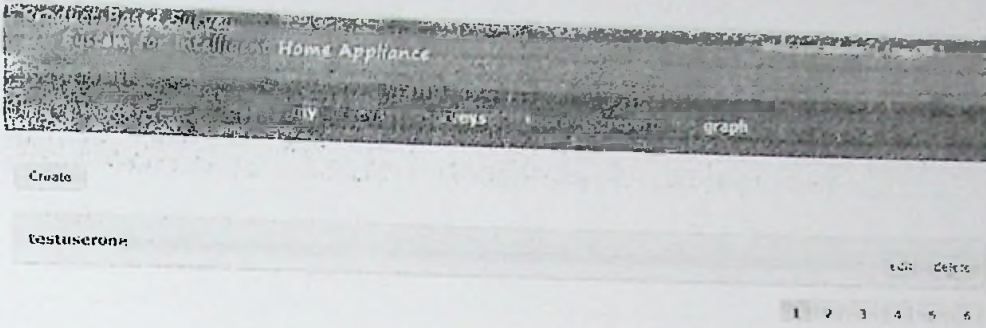
Once administrator completed adding questions and answers to the survey it will be appeared in surveys section and survey name will be displayed on left corner. In order to activate to the user, survey admin should select the “activate” button to activate. Edit and delete are the other options available for the survey admin.

2.1.2 My Survey



This section will show all the activated surveys and in order to participate user need to select the “start” button

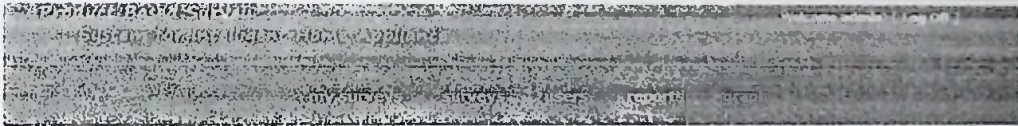
2.1.3 Users



Survey admin can create, edit or delete users by going to “users” section

2.1.3.1 Create Users

Select **Create** button to create new users to the survey system. User can be assigned by selecting a particular user role, whether to be an admin or a standard user.



Create

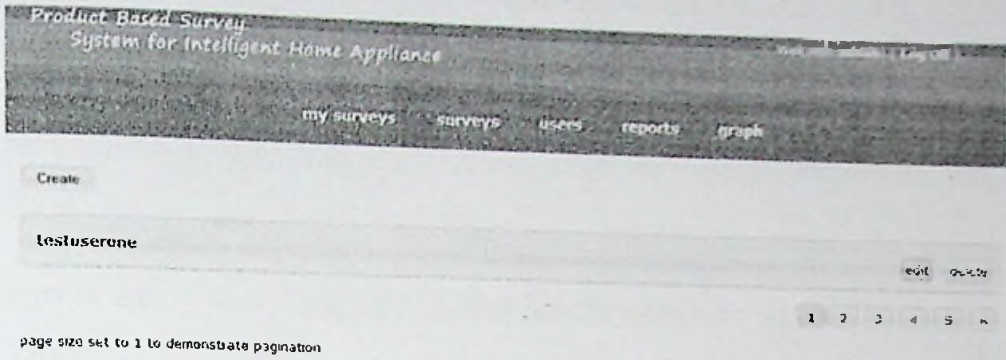
Create user

Login	<input type="text"/>
Password	<input type="password"/>
Role	<input type="text" value="admin"/> <input type="text" value="user"/> <input type="text" value="submit"/>

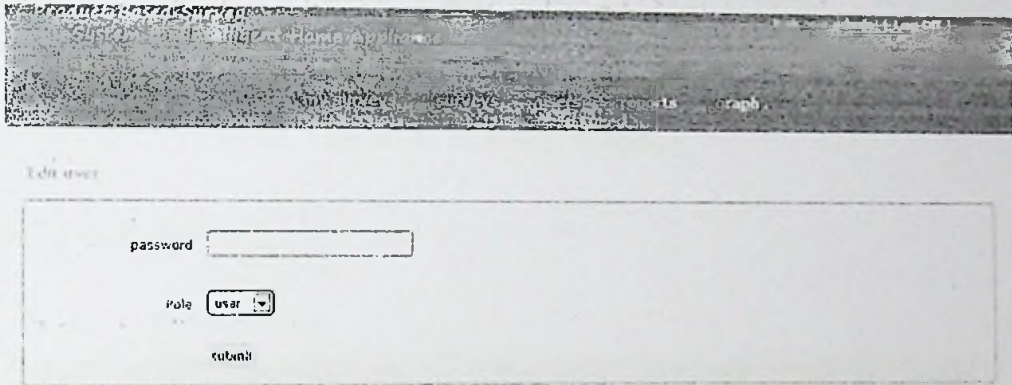
Login name and password should be able to assign to the user along with their user role.

Select “submit” to create the user.

2.1.3.2 Edit users

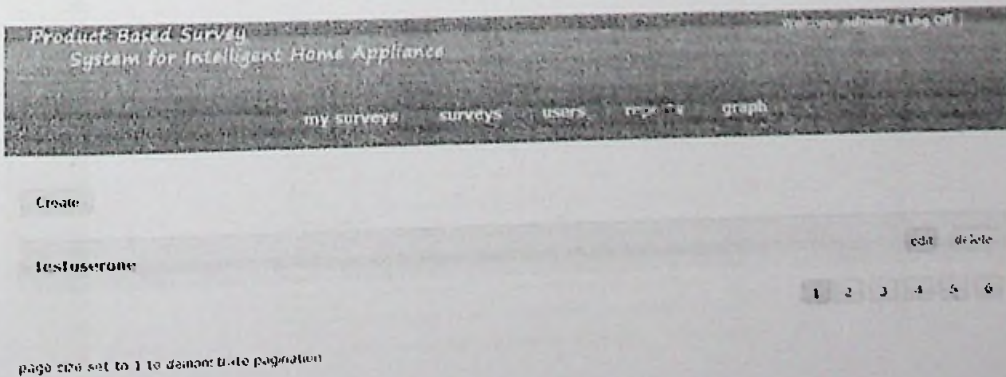


Survey administrator can edit users by selecting the edit menu function. Click on “edit” button to edit user details

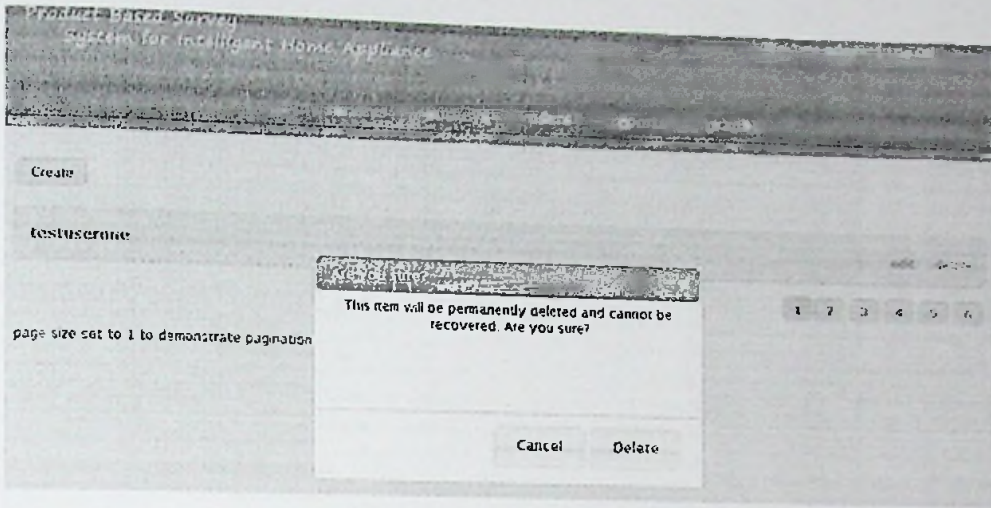


Survey admin should be able to reassign the password and user role by editing user details.

2.1.3.3 Delete users

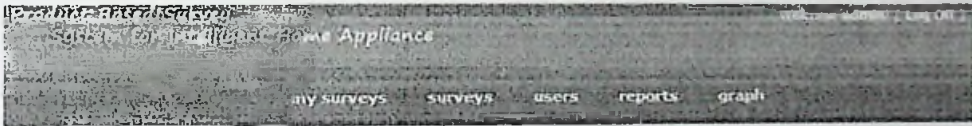


Survey administrator can delete users by selecting the delete menu function. Click on “delete” button to delete the user from survey system



Warning message will be displayed to the user “This item will be permanently deleted and cannot be recovered. Are you sure?” . Select “delete” button to delete the user permanently or select “cancel” to exit from deletion.

2.1.4 Reports



The screenshot shows a report titled "Number of users participated per Survey". The report contains a table with the following data:

	No of users
abcd	1
c	1
ccc	1
House hold items	2
LG survey	1
name	1
product survey	1
survey1	1
Test	2
test survey	1
test survey2	1

Survey admin should be able to generate report to get data for the number of users who has participated per each survey

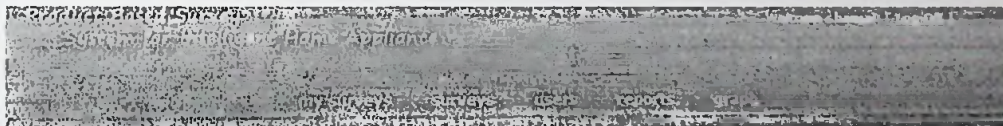
Number of users participated per Survey

	No of users
abcd	1
c	1
ccc	1
House hold items	2
LG survey	1
name	1
product survey	1
survey1	1
Test	2
test survey	1
test survey;2	1
testsurvey1	1
Total	14

19/08/2013

Report generated date will be displayed underneath the report and number of users participated can be view against each survey.

2.0 System Log-off



test survey	done	review
LG survey	done	review
product survey		start
Home Appliances		start
Interactive survey		start
Home Appliances		start



Any user should be able to log off from the system by simply selecting the "log off" option