

Web Based Survey Tool

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Introduction

The main purpose of this tool is to give us the facility to choose best option like Academic Institute or shopping mall or hospitals after going through surveys. These surveys help you access these places and you can give your reviews also about these places. It gives you a comprehensive or a general view. The online survey tools currently exist for tourist destinations, hospitals, colleges/ universities and shopping locations as well. These survey tools have helped to increase the popularity of a new happening place and penalize locations or places for any accidents, shortcomings or haphazardness. Now these days' associations, large companies need to know about their employee's requirement. Conducting these surveys help them to find out this information in a real way.

Web based surveys give a thorough detail of survey process. The web designing and programming skills make it easy to conduct. These surveys have taken over the old data collection method. They are inexpensive and it's easy to access data.[1][2][3]

Project Solution

The Project Solution is divided into three major Modules:

- 1-Registering the person (depending on which category)
- 2-Conducting survey for the person according to category chosen
- 3-Displaying the results and suggestions to the authorized officials so that they can make change from system (college or hospital)

Registration and Login

This is a web based tool, so it's important all valid users should take this survey and must have information about this task. This module will be the solution to this situation and it will make sure any new person visiting to this site should register himself (by filling his basic details and the category in which he belongs to)

As if now, the implementation of this phase will fall into below mentioned three categories –

- 1-Students which can give details about college or university
- 2-Customers providing data about shopping mall or shop.
- 3- Patients providing data about doctor or hospital.

Whatever category the person may belongs to, he/she can proceed ahead after selecting any of the category. Once registration process is done, they can login to the survey for which they have to give some answers to separate survey questions.

Taking the Survey

In this step I want to conduct the survey by listing of minimum of 5 questions to each category. These first five questions will be helpful in knowing the experience of the person in his domain (category).

The questions can be visible as -

- a) What could be the rating for the canteen?
- b) Do you think your library has sufficient materials which is required for your academics?

These questions can be answered by-

- Selecting one of the already present answers (by using drop radio button)
- OR in some cases writing your own suggestions (by using Text box).

Admin Module

This Module gives authority to Admin through which he can make any changes to the survey. It is divided into four parts-

a) Add Questions

In this section Admin has rights to insert or add necessary question required for the survey. Adding questions depends on those three categories (patient, customer, student) which are available on this page.

b) View Questions

This section will display all the questions along with their four options. The importance of this page is that it makes sure the right answers according to admin would be in the highlighted form, so it's easy to know the solution given by admin.

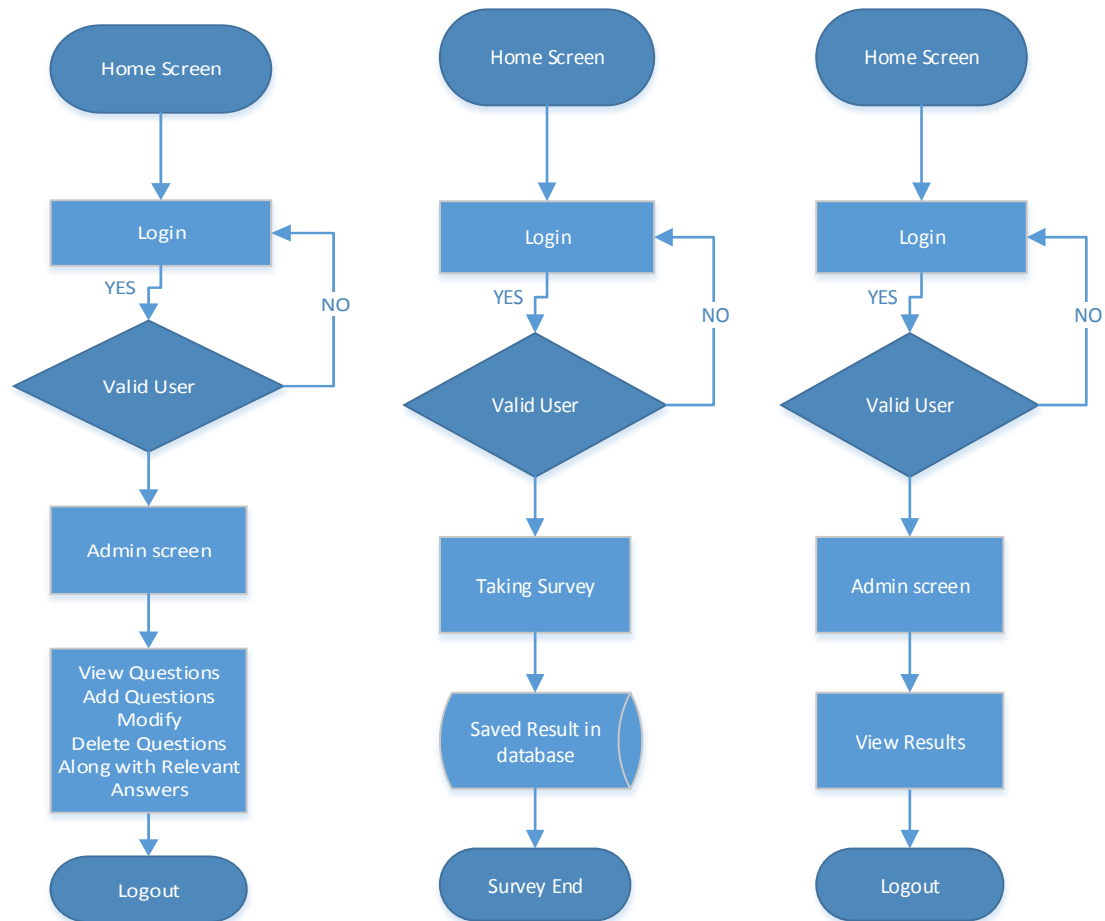
c) Delete Questions

This section gives facility to delete the questions using delete button. This delete button will remove that particular question from that delete page and from database too.

d) Analysis of Results

After a certain time, duration (for every one year or six months) survey results will be handed over to authorized owner or official. Analysis part will be done by using all the saved data and this could be done through an analysis table which contain the value of preferred answer by user as well as percentage also. Each table will show some information which helps in extracting details about users view about the system.

Flow chart diagram



Description

The above displayed chart is showing the functionality of this tool. Each level of diagram refers to one page of the website and how it will work. The purpose of this diagram is just to understand it and get a clear view of the project.

Implementation

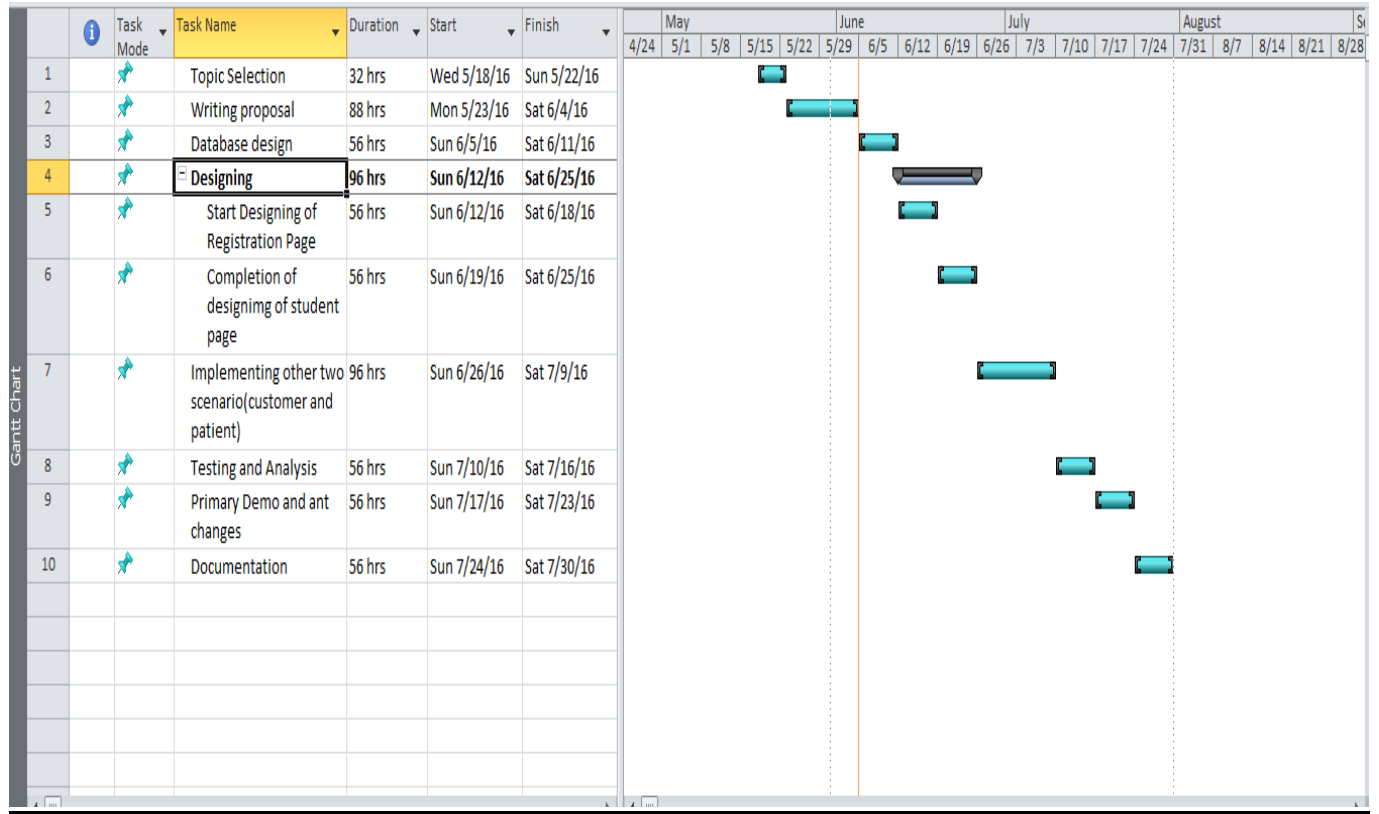
Software Requirements:

Programming Language	Java 8
Operating System	Windows 8
Front End	HTML5, JSTL, CSS3, BOOTSTRAP3
Database	MySQL Workbench 6.3 CE
IDE:	STS 3.8.0. Release

Hardware requirements (minimum):

Hard Disk Drive	20 GB.
Processor	Dual Core Processor
RAM	1GB
Internet Speed	1 MBPS

Schedule (Gantt chart)



Results

This project was a very good experience for me, I learned a lot from it. Since it was a standalone project, everything was in my hand, I was free to do any experiments which I want, which help me to get better knowledge. Like everyone I too faced some problems but later on I got the solution also. There are few issues which are listed below which came across my way while doing this project.

- 1) After preparing the database tables I was supposed to insert these details in my workbench but was not able to login into the account, then I created a new instance to save my data.
- 2) There was problem with foreign keys. If I have to modify my table I was not able to do, so to solve this problem I removed foreign keys from the table.
- 3) The biggest issue I faced with result analysis page, I have to display both solution and percentage of the solution which is answered by the user in the same table. I resolved this problem using JSTL loops and conditions[8].
- 4) At the end, problem came for contact page. I created a new Gmail id and with the help of internet [4], I found the solution(code), then I linked my personal mail id with this newly created mail id.

References

- [1] "A Few Good Online Survey Tools | Idealware." 2008. 25 Jul. 2016
<http://www.idealware.org/articles/fgt_online_surveys.php>

- [2] Archer, TM. "Web-Based Surveys - The Journal of Extension." 2009.
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- [3] "Survey Design Software : Design A Successful Survey System." 25 Jul. 2016
<<http://www.surveysystem.com/sdesign.htm>>

- [4] "JavaMail API - Gmail SMTP Server - TutorialsPoint." 2013. 25 Jul. 2016
<http://www.tutorialspoint.com/javamail_api/javamail_api_gmail_smtp_server.htm>

- [5] "Bootstrap 3 Tutorial - W3Schools." 2014. 27 Jul. 2016 <<http://www.w3schools.com/bootstrap/>>

- [6] "HTML Tutorial - W3Schools." 27 Jul. 2016 <<http://www.w3schools.com/html/>>

- [7] "CSS Tutorial - W3Schools." 27 Jul. 2016 <<http://www.w3schools.com/css/>>

- [8] "JSP Standard Tag Library (JSTL) Tutorial - TutorialsPoint." 2010. 27 Jul. 2016
<http://www.tutorialspoint.com/jsp/jsp_standard_tag_library.htm>

Appendices

A. Status Report

During the entire project there were weekly meeting held with professor. In the beginning it used be every week then later on based on the work and progress it become alternate week. In these meeting I have to show the progress of my project and he used to suggest me what are the new ideas I can add to my project which can make it more fruitful. These meetings really helped me to accomplish this project. I am able to do it in a desired manner.

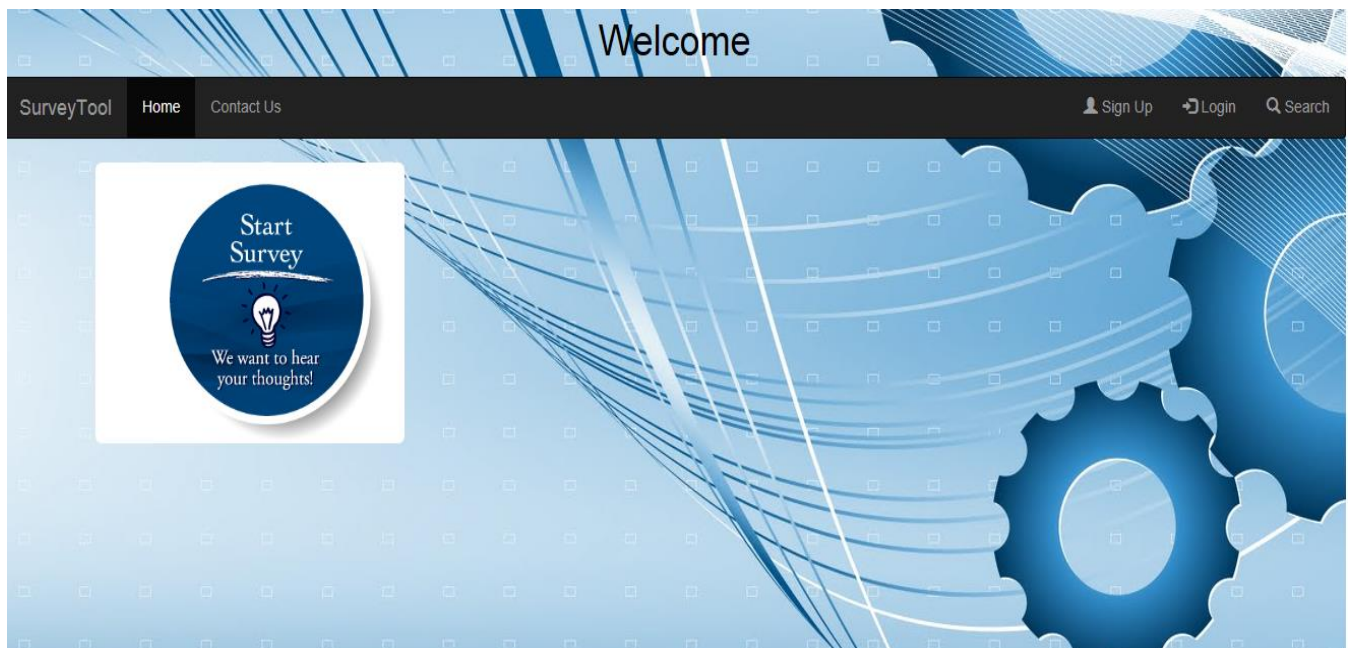
B. Software Configuration

Programming Language	Java 8
Operating System	Windows 8
Front End	HTML5, JSTL, CSS3, BOOTSTRAP3
Database	MySQL Workbench 6.3 CE
IDE:	STS 3.8.0. Release

C. User's Manual

This section will help user's how to operate this site or how to take this survey. Go the link <http://localhost:8080/testsurvey/>

It will take you the main screen which is pasted below. New user has to be registered first, so click on the signup option in the navigation bar.



This signup link will take the user to the registration page where he has to fill his details, then click on the Register button which will take you to Login page.

Registration Page

First Name

Enter FirstName

Last Name

Enter LastName

Date Of Birth:

Enter your date of Birth(mm/dd/yyyy)

Email

Enter Email

Password:

Enter password

Phone number:

Select category

☐ Student
☐ Customer
☐ Patient

Register

Login

Two types of people can login, one User and second Admin. If the login person is Admin it will navigate to Add question page, View Question page, Delete Question page and Result analysis page.

Login Page

SurveyTool Home Contact Us

Email

Enter email

Password

Enter password

Login

Signup

Admin can make new questions along with the option and actual solution for the survey by choosing the different categories. After pressing submit button it will saved into database.

SurveyTool Add Questions View Questions Delete Questions Analyze Result Logout

Question: Enter new Question

Solution 1: Enter option1

Solution 2: Enter option2

Solution 3: Enter option3

Solution 4: Enter option4

Actual Answer: ☐ Solution 1 ☐ Solution 2 ☐ Solution 3 ☐ Solution 4

Select category ☐ Student ☐ Customer ☐ Patient

Submit

This page is just to show what are the details has been added, It just give the complete list of questions.

SurveyTool Add Questions View Questions Delete Questions Analyze Result Logout

Student

Is your library is fulfilling all the requirements necessary for your course work?

- Satisfied
- Average
- Less
- Less

Delete

Is your college emphasis on developing academic,scholarly and intellectual qualities?

- Agree
- Strongly Agree
- Avarage
- Avarage

Delete

Is there good opportunity regarding part time job in your University?

- Agree
- Strongly Agree
- Average
- Average

Here Admin can delete the complete question by pressing delete button. Just to make necessary changes in the survey.

Delete Questions

SurveyTool
Add Questions
View Questions
Delete Questions
Analyze Result
Logout

Student

Is your library is fulfilling all the requirements necessary for your course work?

- Satisfied
- Average
- Less
- Less

Delete

Is your college emphasis on developing academic,scholarly and intellectual qualities?

- Agree
- Strongly Agree
- Avarage
- Avarage

Delete

Is there good opportunity regarding part time job in your University?


- Agree

The last phase of Admin page is Result Analysis. Here he can see the answers chosen by users in the form of percentage and that particular answer also. It helps Admin to take decision regarding that particular category. It helps to know user opinion in that specific field very well.

Questions	Solution1	Solution2	Solution3	Solution4	Preferred Answer By User
Student					
Is your library is fulfilling all the requirements necessary for your course work?	Satisfied - 33.3333	Average - 66.6667	Medium - 0.0	Less - 0.0	Less
Is your college emphasis on developing academic,scholarly and intellectual qualities?	Agree - 50.0	Strongly Agree - 50.0	Disagree - 0.0	Avarage - 0.0	Agree
Is there good opportunity regarding part time job in your University?	Agree - 100.0	Strongly Agree - 0.0	Disagree - 0.0	Average - 0.0	Average
If you have to start once again your education would you prefer to go to same University back again?	Yes,definitely - 100.0	Probably,Yes - 0.0	Probably,No - 0.0	No,definitely - 0.0	Yes,definitely

If the login person is a user then login credentials will take him to the User page, on the basis of User's category, survey questions will be displayed there, User can select answers according to his point of view, after answering the questions he has to press submit button which will go to Thank you page. This Thank you page give confirmation that survey has been completed.

User Page



Logout

How often people visit a shooping mall?

☐ Once in a week

☐ Once in a month

☐ Rarely

☐ Never

A mall is a place with lots of options and choices for all age group people?

☐ Disagree

☐ Strongly Agree

☐ Agree

☐ Strongly disagree

Mall is a place offering high standards of customer service and facilities

☐ Disagree

☒ Strongly agree

☐ Agree

☐ Strongly disagree

Is shopping malls are always located in good area?

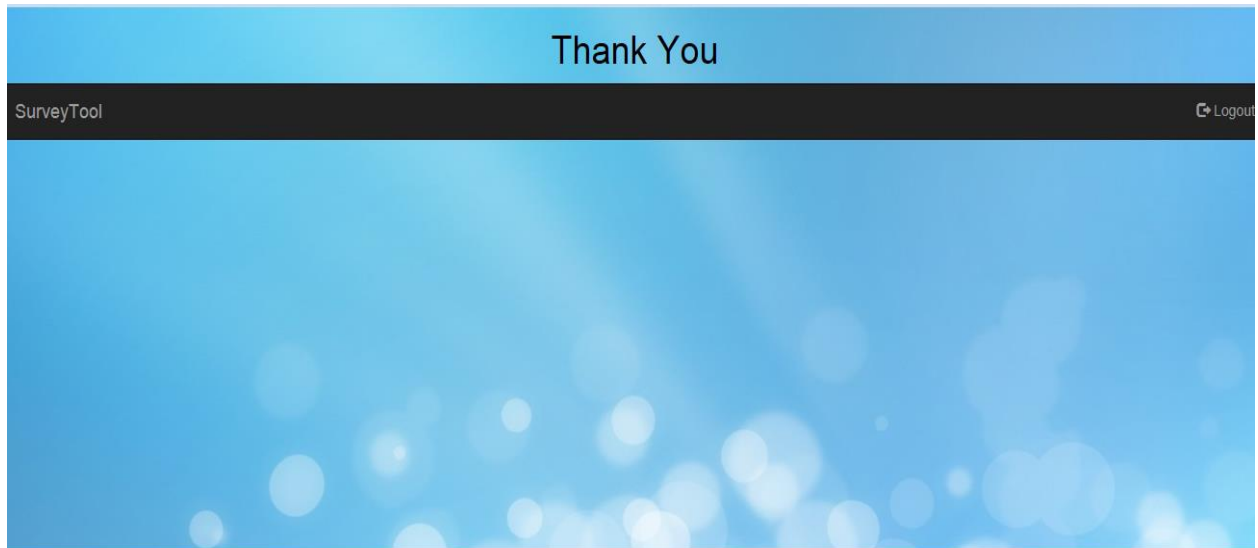
☐ Yes

☐ No

☒ Not sure

☐ May be

Submit Survey



The contact page is to help User's. If they have any suggestion or any issue regarding this survey, they can send it through this page by entering their name, email id and the message. Once they will press this send button that message will go to Admin's email id (which is my mail id) which is visible at the left side of this page.

A screenshot of a web page with a blue gradient background. At the top, there is a dark blue header bar with 'SurveyTool' on the left, 'Home' and 'Contact Us' in the center, and 'Sign Up', 'Login', and 'Search' on the right. Below the header, there is a black navigation bar. The main content area is a large blue rectangle with a bokeh effect. On the left side, there is contact information for Shameela Usmani: 'Shameela Usmani', 'shameelausmani@gmail.com', 'contactno-3213550566', and 'Florida'. On the right side, there is a 'Contact Us' form with three input fields: 'Your Name' (placeholder: 'Enter name'), 'Email:' (placeholder: 'Enter email'), and 'Message' (placeholder: 'Enter new Message'). Below the input fields is a 'send' button.

D. Source Code

The Source code is available in the attachment with the report. Please refer it.