## **Full Stack Development** Project Report On

**ONLINE SURVEY SYSTEM**

## *Submitted By:*

**Name:- Tushar Gupta**

**ID:- 1911985063**

**CERTIFICATE**

*Certified that this is a bonafide record of the project work titled “ ONLINE SURVEY SYSYTEM***”**

*Done by*

*Tushar Gupta*

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#### ABSTRACT

The main aim of developing this online survey system is to conduct an online survey on different topics to the users. In this Java Application, the user can take part in various online polls.  In this system of survey, only the users authenticated by admin from the database system can drop their vote or express their viewpoint regarding the issue. Being online software, it can be logged on from anywhere with internet access. Admin in this application will add the polls regarding different questions and different topics and he can see the results of each poll in the pie chart.

Overall this project of ours is being developed to help the person taking the survey as well as person giving the survey in the best way possible and also reduce the human efforts.

**INTRODUCTION**

This chapter gives an overview about the aim , objectives ,background and operation environment of the system.

#### PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows:

* + - Ability to take survey online
    - User login page where user can give survey created by admin
    - A separate column for polls
    - An admin login page where admin can create Survey
    - A page which shows result of survey
    - A page where admin can add Question to existing Survey

#### BACKGROUND OF PROJECT

Online survey or internet survey, is one of the most popular [data-collection](https://www.questionpro.com/blog/data-collection/) sources, where a set of [survey questions](https://www.questionpro.com/article/survey-question-answer-type.html) is sent out to a target sample and the members of this sample can respond to the questions over the world wide web. Respondents receive online surveys via various mediums such as email, embedded over website, social media etc.

Organizations implement online surveys to use the internet in order to gain insights and feedback about upcoming products or services, change in marketing strategies, enhancement in current features etc. With the progress made by the internet, more and more organizations depend on the data received and analyzed from online surveys to make integral changes in their functioning. For efficient data collection, organizations must choose an advanced and efficient [online survey platform](https://www.questionpro.com/).

All these modules are able to help People / Organisation take Survey with more convenience and in a more efficient way as compared to survey systems which are not computerized

#### OPERATION ENVIRONMENT

|  |  |
| --- | --- |
| PROCESSOR | INTEL CORE PROCESSOR OR BETTER PERFORMANCE |
| OPERATING SYSTEM | WINDOWS VISTA ,WINDOWS7, UBUNTU |
| MEMORY | 1GB RAM OR MORE |
| HARD DISK SPACE | MINIMUM 3 GB FOR DATABASE USAGE FOR FUTURE |
| DATABASE | MY SQL |

**CHAPTER 2**

**SYSTEM ANALYSIS**

In this chapter, we will discuss and analyze about the developing process of Online Survey System including software requirement specification (SRS) and comparison between existing and proposed system . The functional and non functional requirements are included in SRS part to provide complete description and overview of system requirement before the developing process is carried out. Besides that, existing vs proposed provides a view of how the proposed system will be more efficient than the existing one.

#### SOFTWARE REQUIREMENT SPECIFICATION

* + 1. **GENERAL DESCRIPTION**

**PRODUCT DESCRIPTION:**

The Survey System is an extremely versatile collection of software packages. The Basic Edition of The Survey System is designed to appeal to all users;those outside of the traditional market research departments can easily create a simple survey, while market research professionals will appreciate the analytical tools available from an add-on statistical module.

PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

* + - **File lost**

When computerized system is not implemented file is always lost because of human environment.Some times due to some human error there may be a loss of records.

* + - **File damaged**

When a computerized system is not there file is always lost due to some accdent like spilling of water by some member on file accidentally.Besides some natural disaster like floods or fires may also damage the files.

* + - **Difficult to search record**

When there is no computerized system there is always a difficulty in searching of records if the records are large in number .

* + - **Space consuming**

After the number of records become large the space for physical storage of file and records also increases if no computerized system is implemented.

* + - **Cost consuming**

As there is no computerized system the to add each record paper will be needed which will increase the cost for the survey

* + **Difficult to manage**

Managing the records of every user would be difficult which would lead to human

error

#### SYSTEM OBJECTIVES

* + - **Improvement in control and performance**

The system is developed to cope up with the current issues and problems of survey

.The system can add user, validate user and is also bug free.

* + - **Save cost**

After computerized system is implemented less human force will be required to take the survey thus reducing the overall cost.

* + - **Save time**

Administrator is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time.

* + - **Less chance of mistake**

Less human interaction leads to less chances of human error therefore reducing chances of mistakes

* + - **Easy to handle**

Data is easier to handle and poll results are shown instantly

#### SYSTEM REQUIREMENTS

* + - 1. **NON FUNCTIONAL REQUIREMENTS**
         * **Product Requirements** EFFICIENCY REQUIREMENT

When a Online Survey system will be implemented by admin and user will easily able to give survey and data collection will be very faster .

RELIABILITY REQUIREMENT

The system should accurately performs member registration ,member validation , addition of new polls, accurately display results of poll

USABILITY REQUIREMENT

The system is designed for a user friendly environment so that user and organization conducting survey can perform the various tasks easily and in an effective way.

ORGANIZATIONAL REQUIREMENT IMPLEMENTATION REQUIREMNTS

In implementing whole system it uses html in front end with java as server side scripting language which will be used for database connectivity and the backend ie the database part is developed using mysql.

DELIVERY REQUIREMENTS

The whole system is expected to be delivered in two months of time with a weekly evaluation by the project guide.

* + - 1. **FUNCTIONAL REQUIREMENTS**

1. **NORMAL USER**
   1. *USER LOGIN* Description of feature

This feature used by the user to login into system. They are required to enter user id and password before they are allowed to enter the system .The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

Functional requirements

-user id is provided when they register

-The system must only allow user with valid id and password to enter the system

-The system performs authorization process which decides what user level can access to.

-The user must be able to logout after they finished using system.

* 1. *REGISTER NEW USER*

Description of feature

This feature can be performed by all users to register new user to create account.

Functional requirements

-System must be able to verify information

-System must be able to delete information if information is wrong

* 1. *REGISTER NEW BOOK* Description of feature

This feature allows to add new polls to the Survey Functional requirements

-System must be able to verify information

-System must be able to edit polls in the survey.

- System must be able to not allow people to retake the survey.

*1.5 SEARCH POLL*

DESCRIPTION OF FEATURE

This feature is found in Survey maintenance part . we can search polls based on Survey id , book name , publication or by author name.

Functional requirements

* System must be able to search the database based on select search type
* System must be able to filter survey based on keyword entered
* System must be able to show the filtered Survey in table view

* 1. *ADD AND DELETE SURVEY*

DESCRIPTION OF FEATURE

This feature allows to add and delete survey and also view already added polls.

Functional requirements

-System must be able to enter issue information in database.

-System must be able to update surveys.

- System must be able to give information about the survey

-System should be able to enter date when survey will end automatically

* 1. *POLL RESULT*

DESCRIPTION OF FEATURE

This feature allows organization taking survey to see poll result.

Functional requirements

-System should be able to view results of the selected polls .

#### SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system

* + - 1. SOFTWARE REQUIREMENTS
         * Operating system- Windows 10 is used as the operating system as it is stable and supports more features and is more user friendly
         * Database MYSQL-MYSQL is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.
         * Development tools and Programming language- REACT is used to write the whole code and develop webpages with CSS, JS for styling work and JAVA for sever side scripting.
      2. HARDWARE REQUIREMENTS
* Intel core i5 2nd generation is used as a processor because it is fast than other processors an provide reliable and stable and we can run our pc for longtime. By using this processor we can keep on developing our project without any worries.
* Ram 1 gb is used as it will provide fast reading and writing capabilities and will in turn support in processing

#### EXISTING VS PROPOSED SYSTEM

* + 1. Existing system does not have any facility of admin or user login where as proposed system will have a facility of organization login as well as user’s login
    2. Existing system does not have a facility of taking online survey whereas proposed system has a facility to take online survey
    3. Existing system does not have any facility for seeing poll results whereas proposed system has facility to see poll result
    4. Existing system does not have any facility to add new poll whereas proposed system would have this ability
    5. Existing system does not have any facility for user to give survey whereas proposed system would give use the ability to add
    6. Existing system does not has any facility for admin/organization to see collation of polls whereas proposed system would give admin/organization ability to see collection of polls in data base

#### SOFTWARE TOOLS USED

The whole Project is divided in two parts the front end and the back end.

* + 1. **FRONT END-**

The front end is designed using of html, css, Typescript, AngularJs

* + 1. **BACK END-**

The back end is designed using Springboot, MySQL which isused to design the databases

**CHAPTER -3**

**SYSTEM DESIGN**

#### TABLE DESIGN

VARIOUS TABLE TO MAINTAIN

INFORMATION

* USER LOGIN TABLE

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data type** | **Default** | **Key** |
| User id | INT(11) | NOT NULL | Foreign key |
| Username | VARCHAR(255) | NULL |  |
| Password | VARCHAR(255) | NULL |  |
| Email | VARCHAR(255) | NULL |  |
| Mobile No. | VARCHAR(255) | NULL |  |
| Organization | VARCHAR(255) | NULL |  |
| Profession | VARCHAR(255) | NULL |  |

* SURVEY INFORMATION TABLE

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Default** | **Key** |
| Survey id | INT(11) | NOT NULL | Foreign key |
| Survey Title | VARCHAR(255) | NULL |  |
| Survey Description | VARCHAR(255) | NoT NULL |  |
| Survey Date | DATE | NOT NULL |  |
| User Email | VARCHAR(255) | NOT NULL |  |

* SURVEY QUESTION INFORMATION TABLE

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Default** | **Key** |
| Question id | INT(11) | NOT NULL | Foreign key |
| Question Title | VARCHAR(255) | NULL |  |
| Question Description | VARCHAR(255) | NULL |  |
| Survey id | INT(11) | NULL |  |
| User Email | VARCHAR(255) | NOT NULL |  |

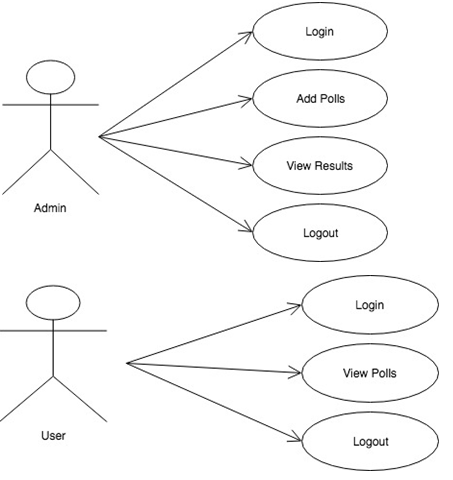
* SURVEY RESPONSE INFORMATION TABLE

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Default** | **Key** |
| Survey Response id | INT(11) | NOT NULL | Foreign key |
| Question id | INT(11) | NULL |  |
| Email | VARCHAR(255) | NULL |  |
| Survey Response | BOLLEAN | NULL |  |
| User Email | VARCHAR(255) | NOT NULL |  |

#### DATA FLOW DIAGRAMS

**1.4.1 Admin and User Use case Diagram**

The following UML use case diagram shows the working of an Online Survey System.



**The use cases for the admin are :-** Register, Create Survey and finally Take Survey. The administrator needs to register for the survey then survey id will be created for that particular survey then admin should create the survey question and answers. Then admin can share the survey id to the people to whom they want to take the survey. ADMIN Use Case Diagram

**The use cases for the Users are :-** Get the survey Id from the Admin, Take Survey and finally Submit Survey. Then after submitting the survey the user can see the total count of peoples who have already submitted the survey.

# CHAPTER 5 SYSTEM TESTING

The aim of the system testing process was to determine all defects in our project .The program was subjected to a set of test inputs and various observations were made and based on these observations it will be decided whether the program behaves as expected or not.

Our Project went through two levels of testing 1.Unit testing

1. integration testing

## UNIT TESTING

Unit testing is undertaken when a module has been created and successfully reviewed .In order to test a single module we need to provide a complete environment ie besides the module we would require

* + The procedures belonging to other modules that the module under test calls
  + Non local data structures that module accesses
  + A procedure to call the functions of the module under test with appropriate parameters

Unit testing was done on each and every module that is described under module description of chapter 4

1. **Test For the admin module**
   * **Testing admin login form-**This form is used for log in of administrator of the system .In this we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for username and password
   * **Survey Addition-** Admin can enter details of Survey and can add the Questions to the survey table also he can view survey results.
2. **Test for Student login module**
   * **Test for Student login Form-**This form is used for log in of Student .In this we enter the Email , username and password if all these are correct student login page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for email, username and password.
   * **Test for account creation-** This form is used for new account creation when User does not fill the form completely it asks again to fill the whole form when he fill the form fully it gets redirected to page which show waiting for conformation message as his data is added .

## INTEGRATION TESTING

In this type of testing we test various integration of the project module by providing the input

.The primary objective is to test the module interfaces in order to ensure that no errors are occurring when one module invokes the other module.

# CHAPTER 6

**CONCLUSION AND FUTURE SCOPE**

1. Ability for user to login using Gmail account.
2. Ability for admin to edit survey.
3. Ability for admin to edit survey Question.
4. Ability for admin to verify user.

All that mentioned above and more

**CHAPTER 6**

**REFRENCES**

* Friends, Teachers
* Stackoverflow for error resolving
* Google

→ My Github Repository Link -

* <https://github.com/TusharGupta-07/surveyCartelFrontend>
* https://github.com/TusharGupta-07/surveyCartelBackend