Computer Engineering Department

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UNIVERSITY OF MUMBAI

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A Mini Project Report on

Survey System

Submitted in partial fulfillment of the degree of
Bachelor of Engineering(Sem-IV)
in

Computer Engineering

By

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1.Project Conception and Initiation

1.1 Abstract

- Businesses and researchers across all industries conduct surveys to uncover answers to specific, important questions
- The proposed system conducts these surveys in an efficient hassle free manner.
- The main aim is to develop a system to conduct an online survey on different topics.
- This application enables the user to take part in various online polls
- The Admin can view the results in the form of pie charts

1.2 Objectives

- 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.

- Admin in this application will add the polls regarding different questions and different topics and he can see the results of each poll.

1.3 Problem Definition

- In this system, the aim is to build a Survey System which allows us to conduct an unbiased survey on various topics and get unadulterated opinions of employees or students on on topics which require anonymity. The system would be designed in such a way that maintains transparency, yet keeping data confidentiality.

1.4 Scope

- Due to the era of digitalization, Survey systems have evolved exponentially over the few decades.
- This has various applications as it can be used by big firms, schools, colleges to carry out anonymous surveys which will benefit their organizations.
- They can be used by independent organizations to learn about people’s opinions on certain matters of national importance.
- Data Analytics use data from such surveys for their studies.

1.5 Technology stack

Technologies Used:

SQL

We have used a database to store and display the results of the surveys carried out in our survey system. The database will also contain the admin logins and the logins of the user. The system will allow each user to submit their survey questionnaire only once. MySQL and MySQL servers will be used for database management and its application in our system.

JDBC

JDBC stands for Java Database Connectivity. JDBC is a Java API to connect and execute the query with the database. It is a part of JavaSE (Java Standard Edition). JDBC API uses JDBC drivers to connect with the database.

Java (Object Oriented Programming Language):

Java is a programming language and a platform. Java is a high-level, robust, object-oriented, and secure programming language. Platform: Any hardware or software environment in which a program runs, is known as a platform. Since Java has a runtime environment (JRE) and API, it is called a platform. Procedural programming is about writing procedures or methods that perform operations on the data, while object-oriented programming is about creating objects that contain both data and methods.

GUI

GUI is an interface that allows users to interact with different electronic devices using icons and other visual indicators. We have used Java to implement GUI which will allow users to login into their account using text boxes and look at the results of the survey they have attempted.

1.6 Applications

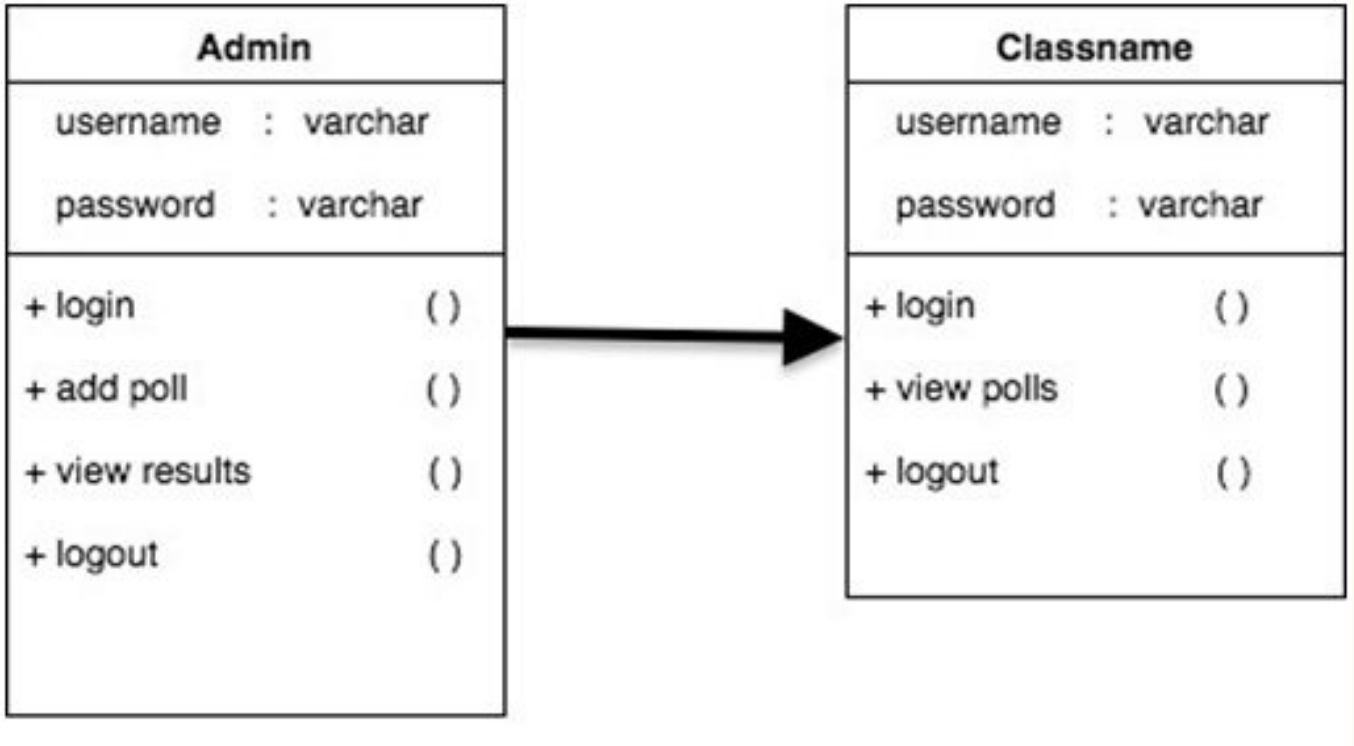
- The manual system of the survey is tedious and time-consuming as well as uneconomical. So, an online survey system is a solution to these existing problems.
- The proposed system will allow independent organizations to conduct surveys on matters of national concern and get people’s opinions.
- The major application of our project is in college campuses and the office workplace where anonymity is a core part of conducting surveys so that people dont face repercussions for voicing their opinion.
- Since anonymous we can get peoples unfiltered opinions on problems in the workplace and college premises.
- It can be installed anywhere to provide an effective survey facility at an affordable cost.

1.7 Benefits for society & environment

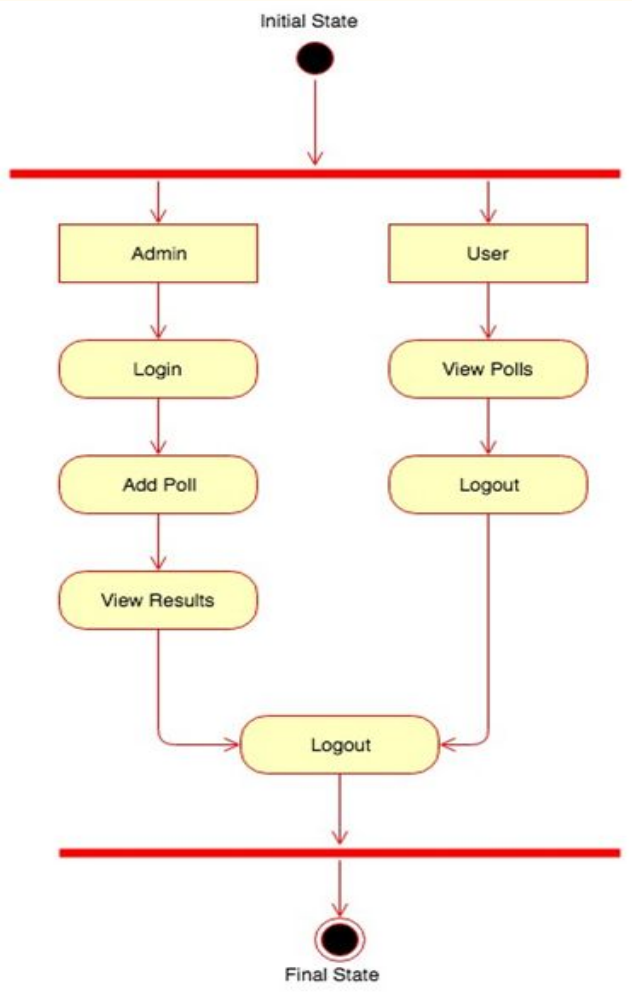
- Our proposed system is faster. The time span needed to complete an **online survey** project is on average two-thirds shorter than that of traditional research methods.
- Our proposed system is cheaper. Using **online** questionnaires reduces your research costs.
- Our proposed system is quick to analyze.
- Our proposed system is easy to use for researchers and participants.
- Our proposed system is more honest and accurate as it keeps the participants identity anonymous it allows participants to answer the questions with complete honesty.

2. Project Design

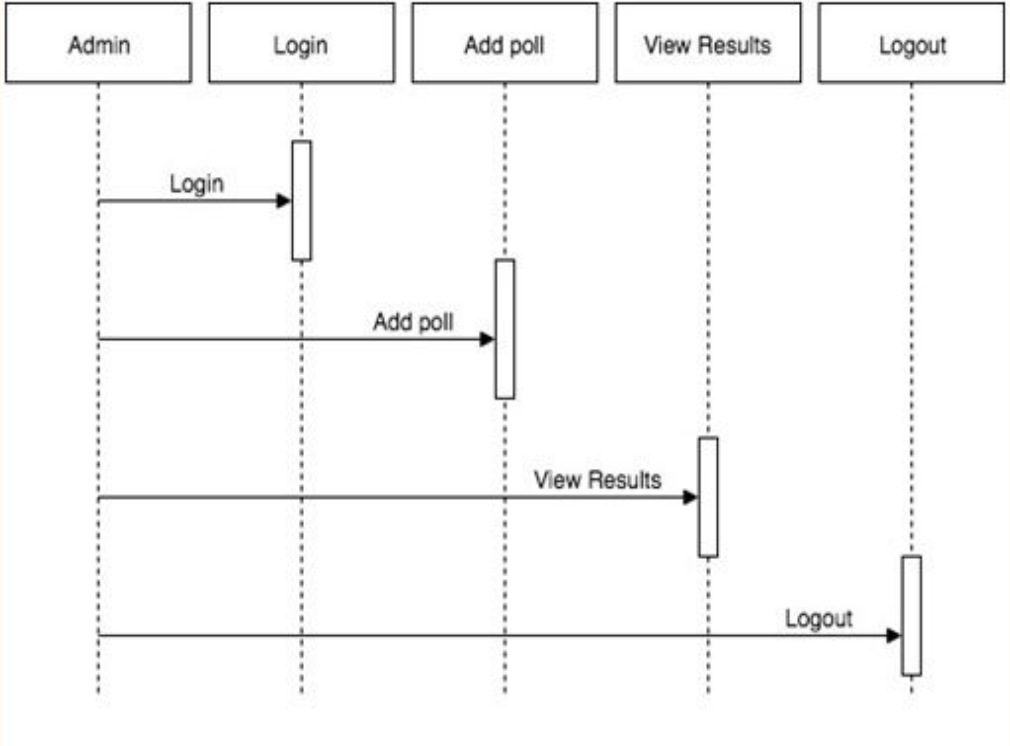
2.1 Proposed System



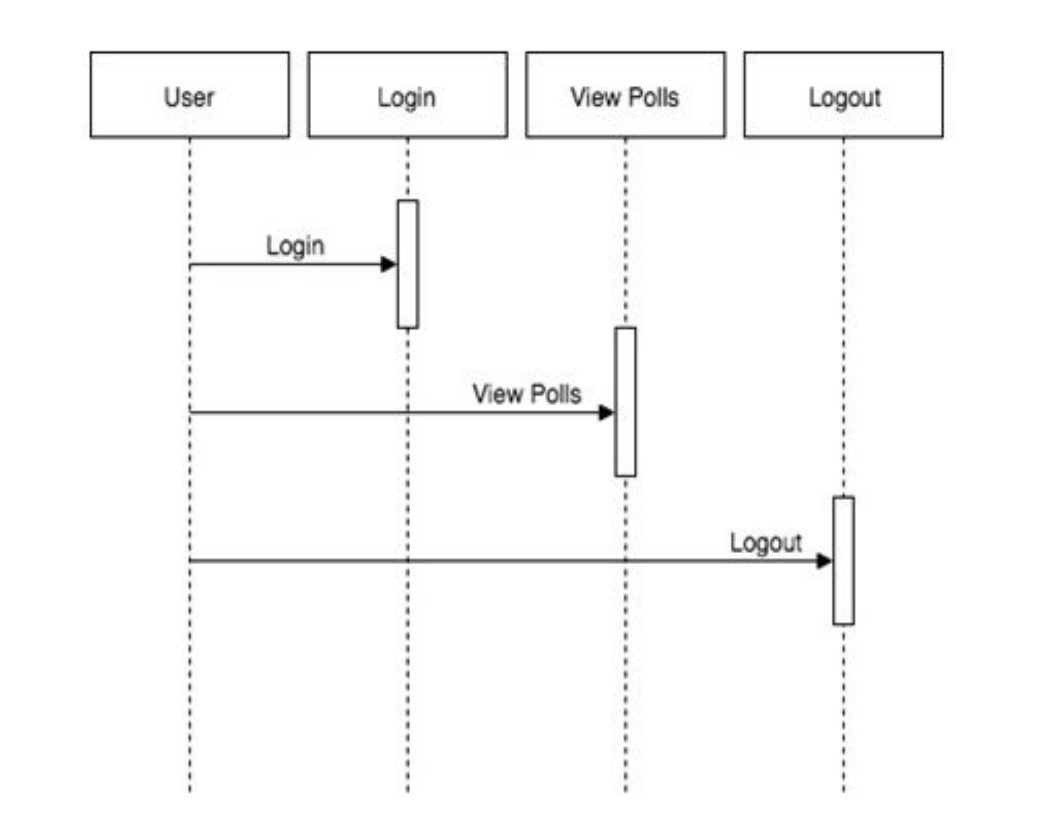
2.2 Design
(Flow Of Modules)



2.3a Data Flow Diagram



2.3b Data Flow Diagram



2.5 Module-1: Welcome Page

The welcome page opens as a primary home page of the system.

Module-2: Login/ Registration Page

The login module is where the user will have to log in with their credentials after the user registers. This module consists of two input fields with validations. If the username is not found in the User database or the entered password is incorrect then it will show an error message. If the user has not registered yet he/she can click on Sign Up. the registration page consists of fields like username, password, and confirms password.

Module-3: Admin Home Page

- The Admin Home Page Consists of Adding Survey Questions, which can only be done by the admin.

- It also consists of a Delete Survey button which is available through only admin login.

- It displays the View Results option too.

Module-4: User Home Page

- On the User home page, upon login, it displays the number of questions and options for the user to choose from the surveys added by the Admin.

- After entering the particular number, the user will then have to vote for a particular option or take the part in the survey in its best suitable interests.

Module-5: View Results Page

- View Results Page is available to both, the Admin as well as to the users.

- Here they can view the results of all the Participants without knowing their identity.

- To maintain integrity and genuineness we've chosen to keep the result anonymous.

3.Implementation

3.3 Platforms for Execution

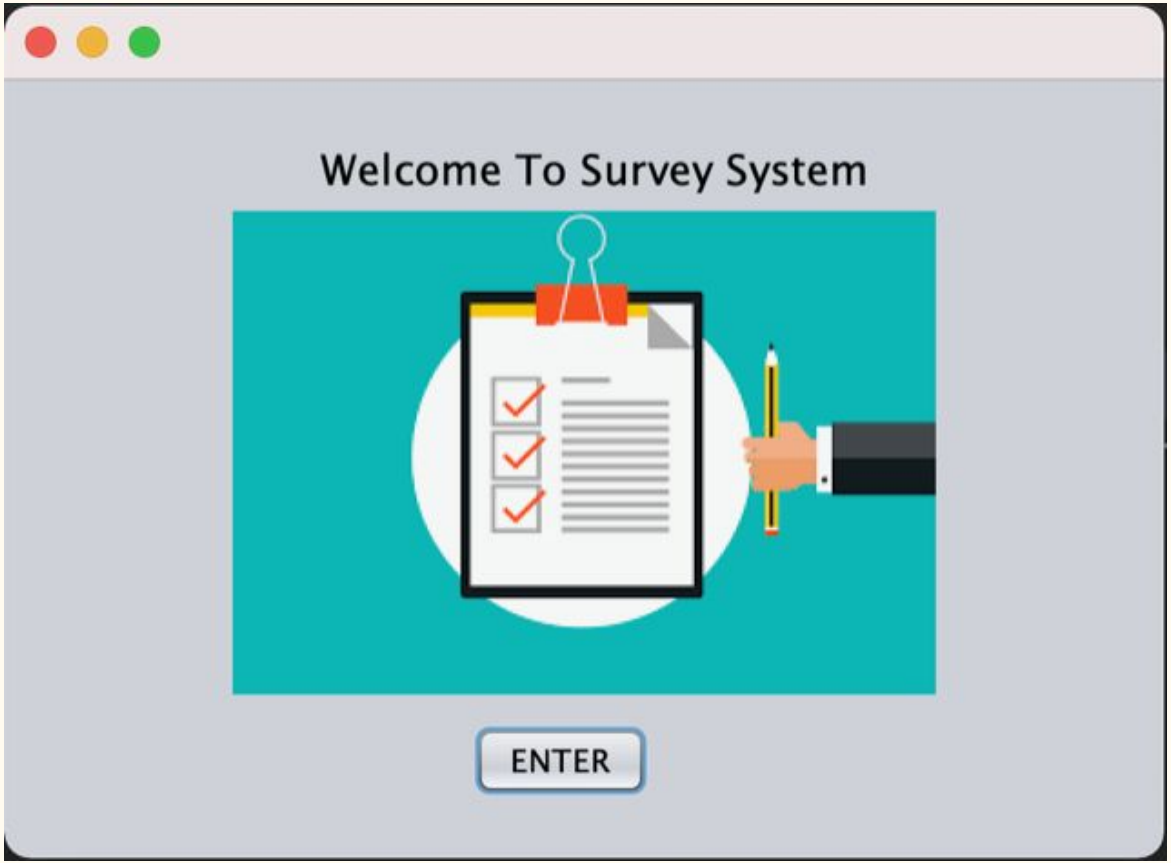
- Survey System: ‘Survey System’ is the name of the created project where the classes are stored.
- login.java: Is a JFrame class where the users or the admin logins into their account.
- admin.java: Is a JFrame class where the admin can add, delete and view the results of the surveys stored in the database.
- newuser.java: Is a JFrame class where a new user can create an account for himself.
- add.java: Is a JFrame class where the admin can add a survey using the survey question and the four answer options of a survey.
- surveylist.java: Is a JFrame class where where all the surveys currently in the database can be seen can the user can choose one to answer.

3.3 Platforms for Execution

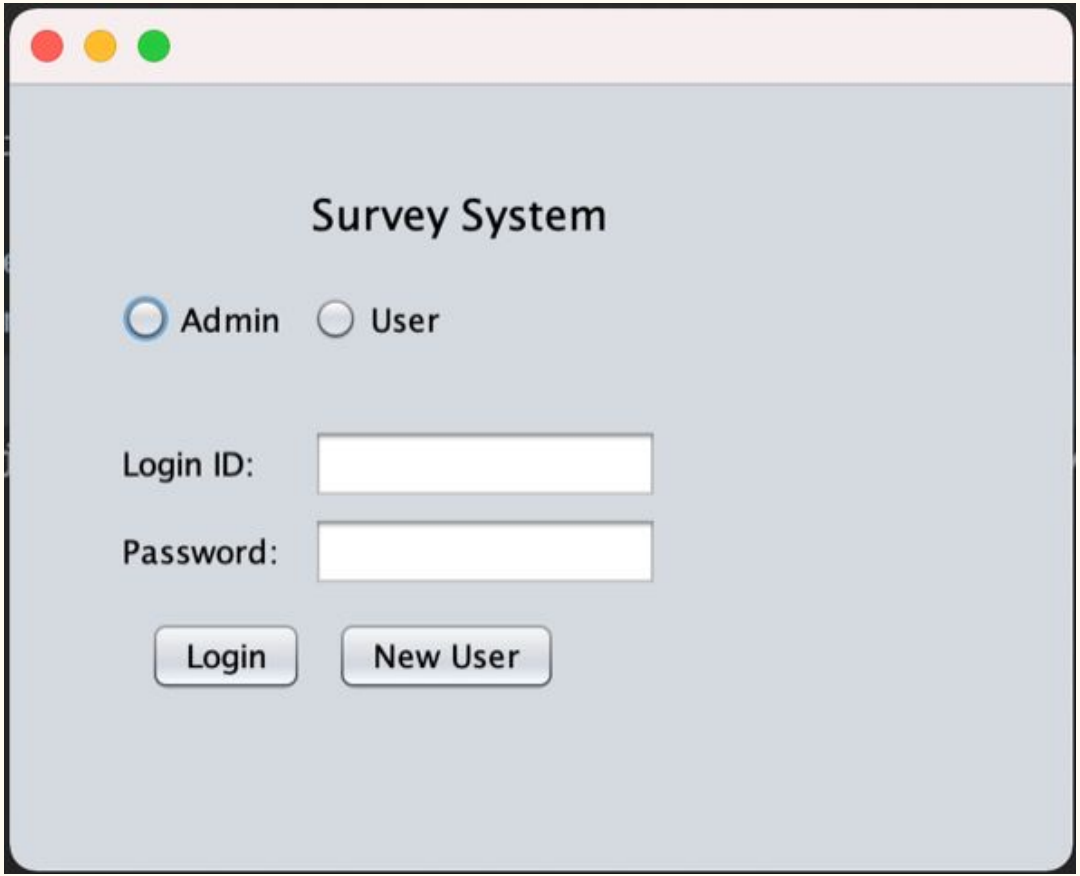
- userans.java: Is a JFrame class where the user actually selects one of the four options and answers the survey.
- results.java: Is a JFrame class where the results for a particular survey is displayed

4. Results

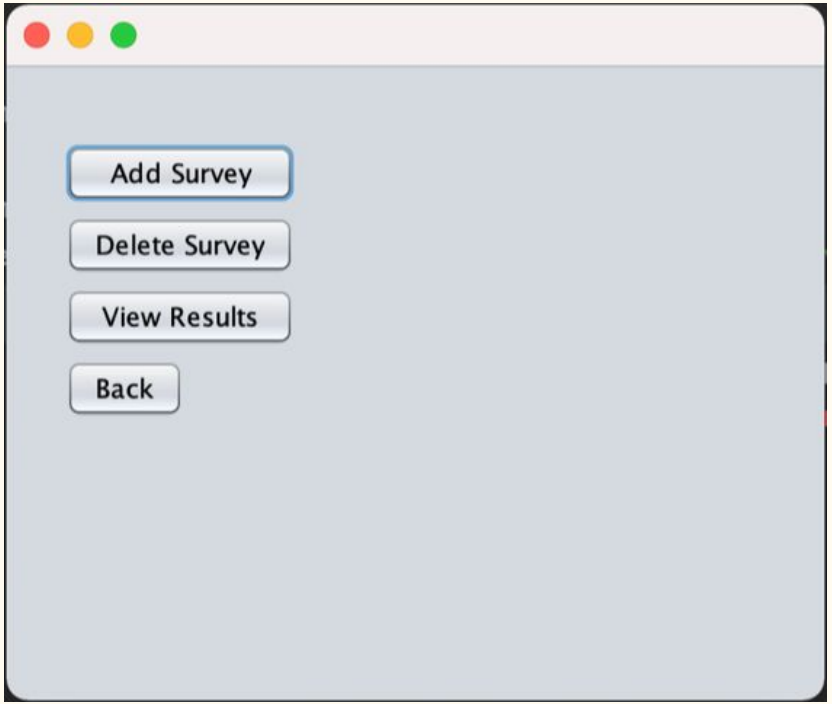
4.1 Home Page:

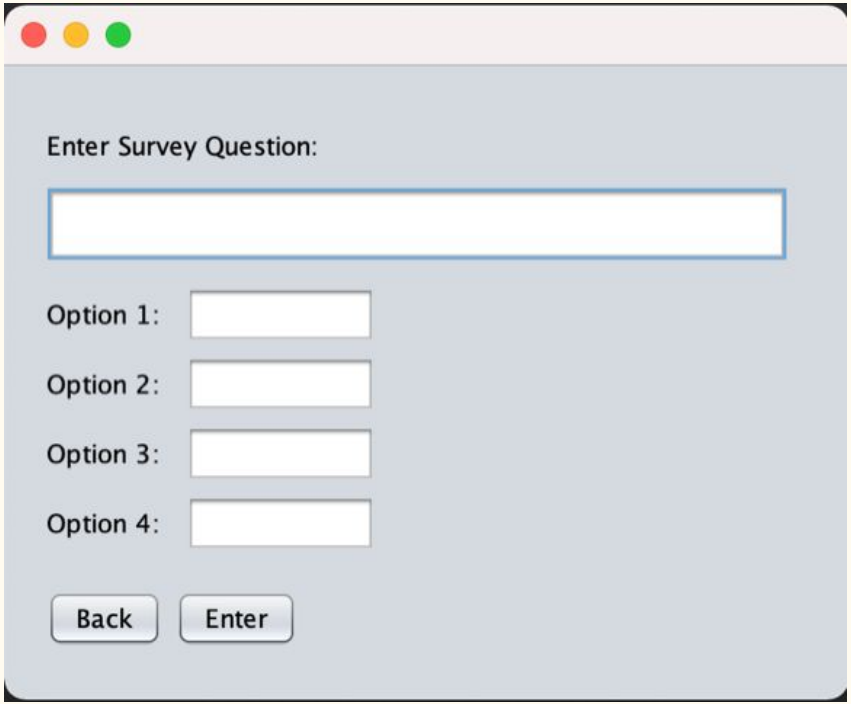


Login / Registration Page:

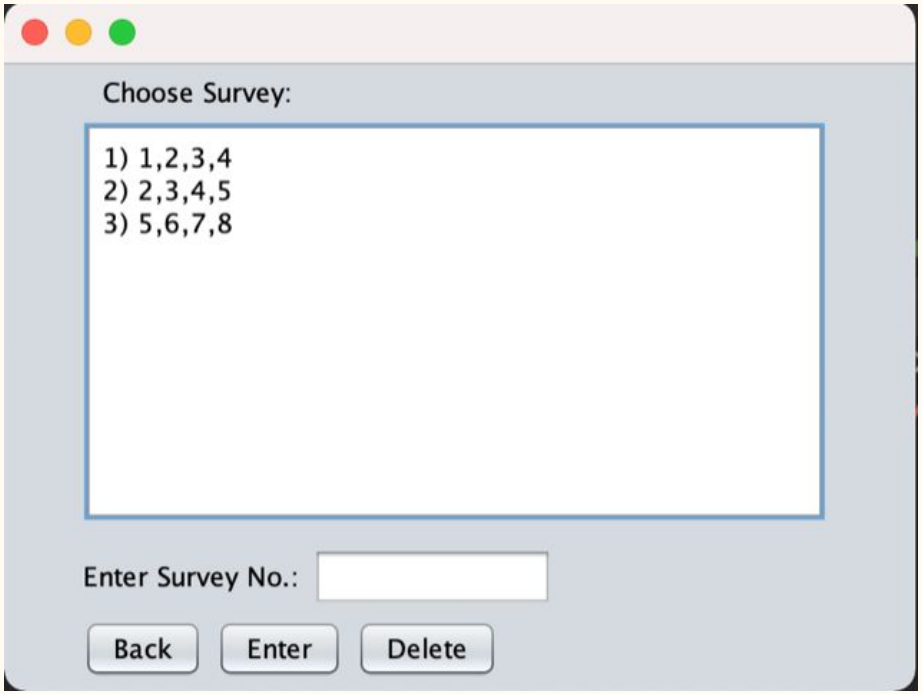


Admin Home Page:

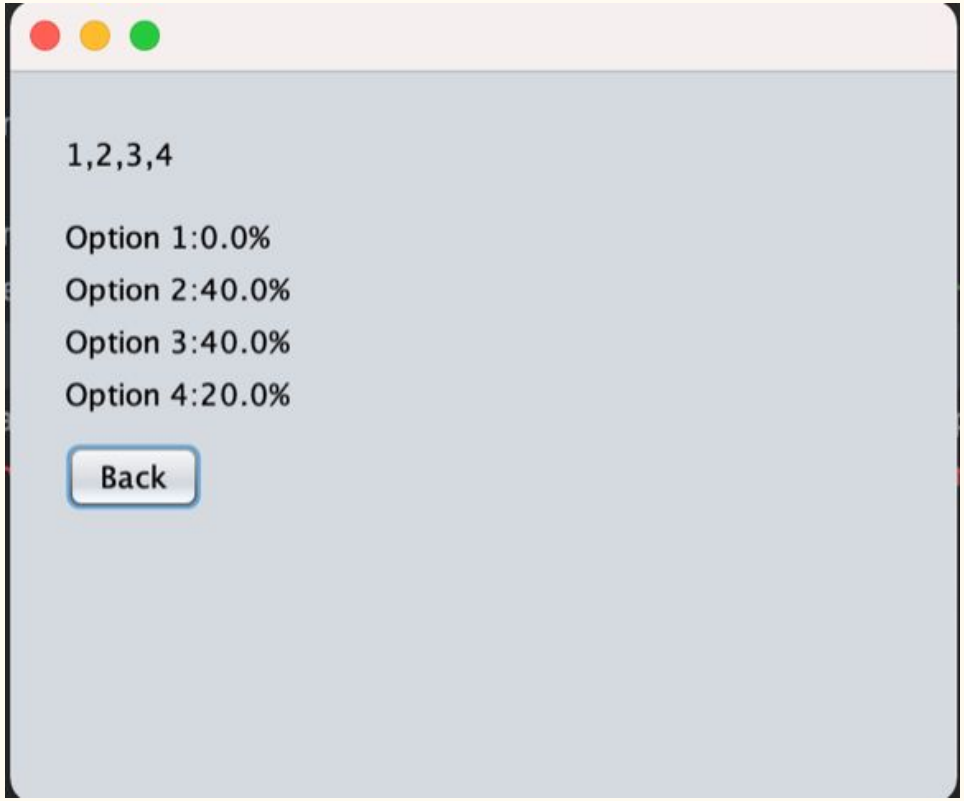




User Home Page:



View Results Page:



5. Conclusion and Future Scope

- This project presents the basic design of the survey system. The Survey system was able to achieve its goal and take the survey in a way that was both user-friendly and efficient. There are few areas of this system that may need further research or improvement in the future. The basic aim of our system to reduce workload and save significant Staff time was achieved. Hence we can say that this project is successfully implemented with all the features and modules of the survey system as per requirements.

- A future scope could be to create an additional program to the result that would prompt the in different forms of pie chart and tables, for the information required, and also automatically configure the adding question system with the information obtained. This would make it easier for Admin, rather than having them manually deleting.

- Another improvement that could be made is to add a Web server to this project. A broad number of audiences can use it for their organization. Secure the portal to maintain the anonymity of users.

- We think that not a single project is ever considered complete forever because our mind is always thinking about something new and our necessities also are growing day by day.

6. Bibliography

1. https://www.oracle.com/java/technologies/javase/javase-tech-database.html

2.https://www.researchgate.net/publication/271910489_Doing_database_design_with_MySQL

Thank You