A Mini Project Report on

Survey System

Submitted in partial fulfillment of the requirements for
the award of the degree of

Bachelor of Engineering

in

Computer Science

by

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UNIVERSITY OF MUMBAI

Academic Year 2020-2021

This Mini Project Report entitled ***"Online Survey System"*** Submitted by ***"Atiq Kazi"(19102066), "Hritika Kucheriya"(18102026), "Tejal Patole"(17102037),***is approved for the partial fulfillment of the requirement for the award of the degree of ***Bachelor of Engineering*** in ***Computer Science*** from ***University of Mumbai***.

Prof. Bharti Khemani
Guide

Prof. Sachin H Malave
Head Department of Computer Engineering

Place: A.P.Shah Institute of
Technology, Thane Date:

This is to certify that the mini project entitled ***"Title of project"*** submitted by ***"Atiq Kazi" (19102066), "Hritika Kucheriya" (18102026), "Tejal Patole" (17102037),*** for the partial fulfillment of the requirement for the award of a degree ***Bachelor of Engineering*** in ***Computer Science.***, to the University of Mumbai, is a bonafide work carried out during the academic year 2020-2021.

Prof. Bharti Khemani
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Examiner(

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Place: A.P.Shah Institute of
Technology, Thane Date:

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, We have adequately cited and referenced the original sources. We also declare that We have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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(Signature)

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(Hritika Kucheriya and 18102026)
(Tejal Patole and 17102037)

Date

Abstract

Businesses and researchers across all industries conduct surveys to uncover answers to specific, important questions. These questions are varied, cover a diverse range of topics, and can be asked in multiple formats. There are many possible reasons for conducting a survey few of which are Uncover the answers**,** Evoke discussion**,** Base decisions on objective information, and Compare results. In our proposed system we will be easing the method of conducting this tedious task. 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 in the pie chart.

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Chapter 1

Introduction

Businesses and researchers across all industries conduct surveys to uncover answers to specific, important questions. These questions are varied, cover a diverse range of topics, and can be asked in multiple formats. There are many possible reasons for conducting a survey few of which are: Uncover the answers**,** Evoke discussion**,** Base decisions on objective information, and Compare results. In our proposed system we will be easing the method of conducting this tedious task.

1.1 Problem Statement

The proposed online project is an implementation of Java programming language for software generation that is important in college or organization to carry the survey. In this system of survey, only the users authenticated by the admin from the database system can drop their vote or express their views regarding the issue. Being online software, it can be logged on from anywhere with internet access.

1.2 Objective

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 Scope

- 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.

1.4 Existing System

In order to make any decision in an organization, it is essential to know what actually workers or the members of the organization want. It may not be possible to listen to everybody separately and sometimes the viewpoints are required to be kept secret. Also, 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.

Chapter 2

Literature Survey

A digital survey system is a systematic process of gathering quantitative data from a predetermined target audience. Here, the target audience (participants) is invited to answer a questionnaire over the internet. ...

The current study was carried out conforming to procedures of the online survey in order to evaluate the impact of lockdown imposed in India on aquaculture activities in Andhra Pradesh due to pandemic, COVID-19. The methodology was split into actionable approaches. Only a few questions used in this study which varied while relating to respondents also depended on the objective underlying the survey…

Before sending the survey link to the potential study participants, we piloted and pretested the survey. The pretesting consisted of two phases:

(1) face-to-face interviews with five academics and four practitioners using a protocol method where the participants thought aloud while filling in the questionnaire, and

(2) sending the web survey to other business practice participants to assess the survey structure, wording, and overall length, thus following previous survey-based research…

The questions were organized under sub-topics providing a short description in each of them the background information, the Likert scale questions set, and a number of open questions. The questions related to the background information were placed at the beginning of the survey to establish the feeling of trust between the researcher and the survey participants.

Chapter 3

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.

Chapter 4

Benefits and Applications

4.1 Benefits for Society

Our proposed system will allow independent organizations to conduct surveys on matters of national concern and get the people's opinion. This will also allow the people to voice their opinion and use their freedom of speech which is one of the fundamental rights of our country which is a democracy.

4.2 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.
- It can be installed anywhere to provide an effective survey facility at an affordable cost.

4.3 Benefits for Environment

Faster. The time span needed to complete an **online survey** project is on average two-thirds shorter than that of traditional research methods.

- Cheaper. Using **online** questionnaires reduces your research costs.
- More accurate
- Quick to analyze
- Easy to use for participants
- Easy to use for researchers
- Easy to style
- More honest.

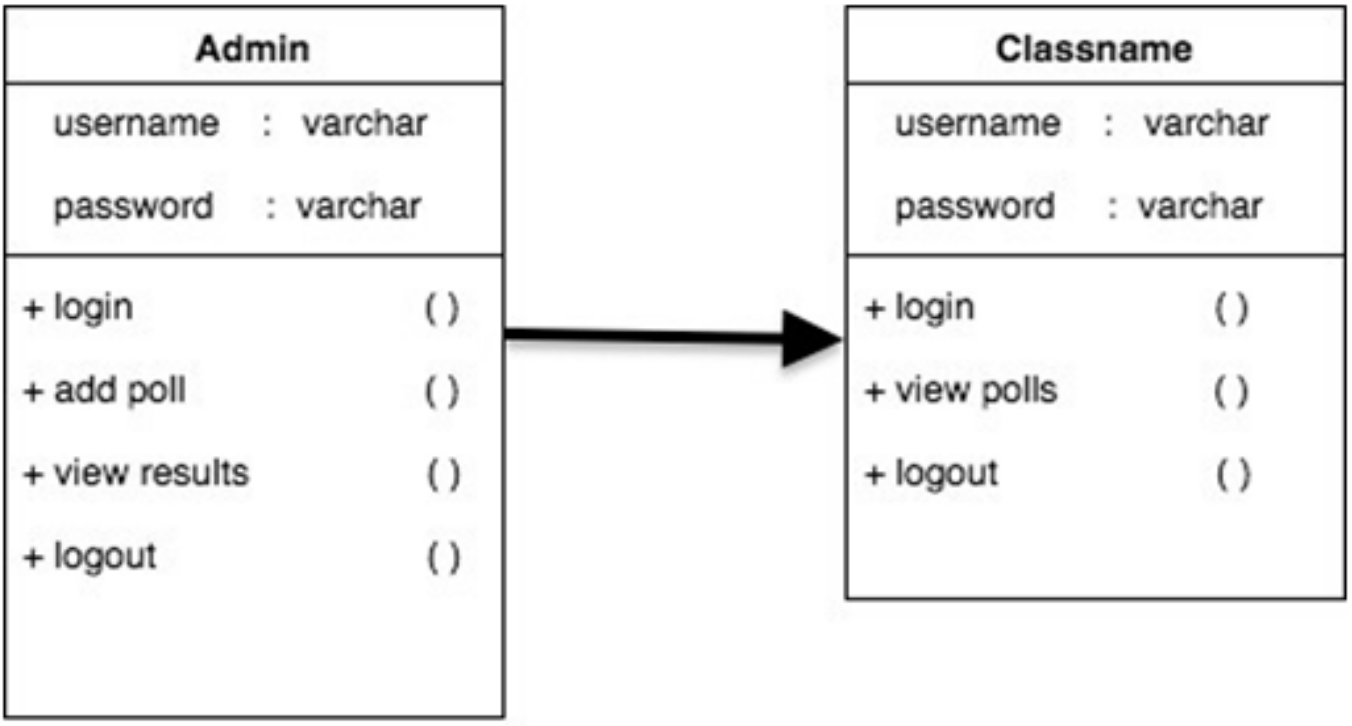
Chapter 5

Project Design

5.1 Proposed System

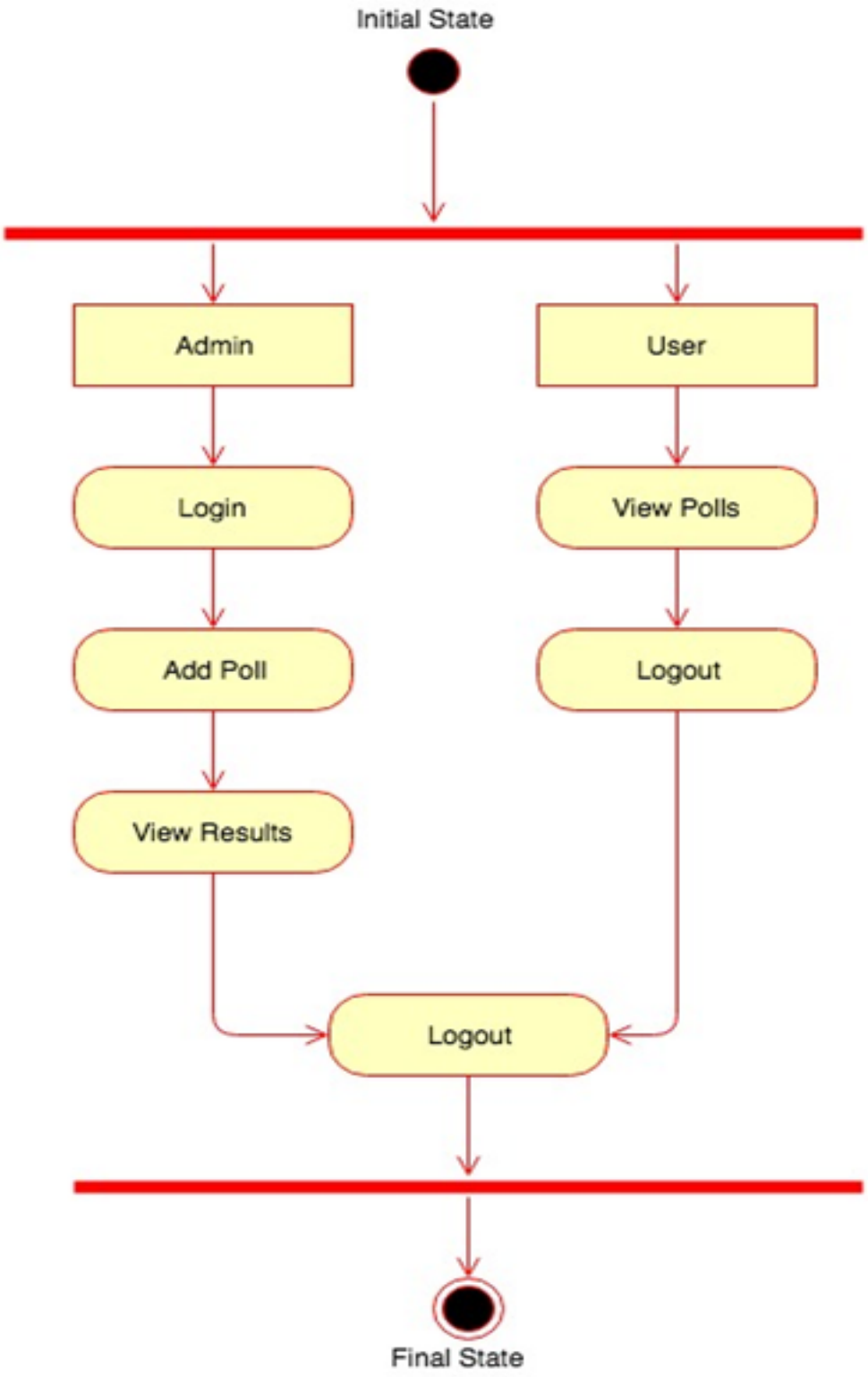
The proposed Online Survey System is easy and comfortable to use. In this software, the answers or viewpoints of the participants are collected using a radio button or check box. The system is designed in such a way that it automatically adds the votes to each alternative and after the deadline of the survey, it displays the result. All the activities in the project are controlled by approvers like HRS.

The system plays a vital role in minimizing the budget of surveys. The implementation of the project avoids the programs such as meetings, conferences, etc. to take any decision or research. With the help of this online system, one can easily forward his/her ideas and viewpoints to the officials



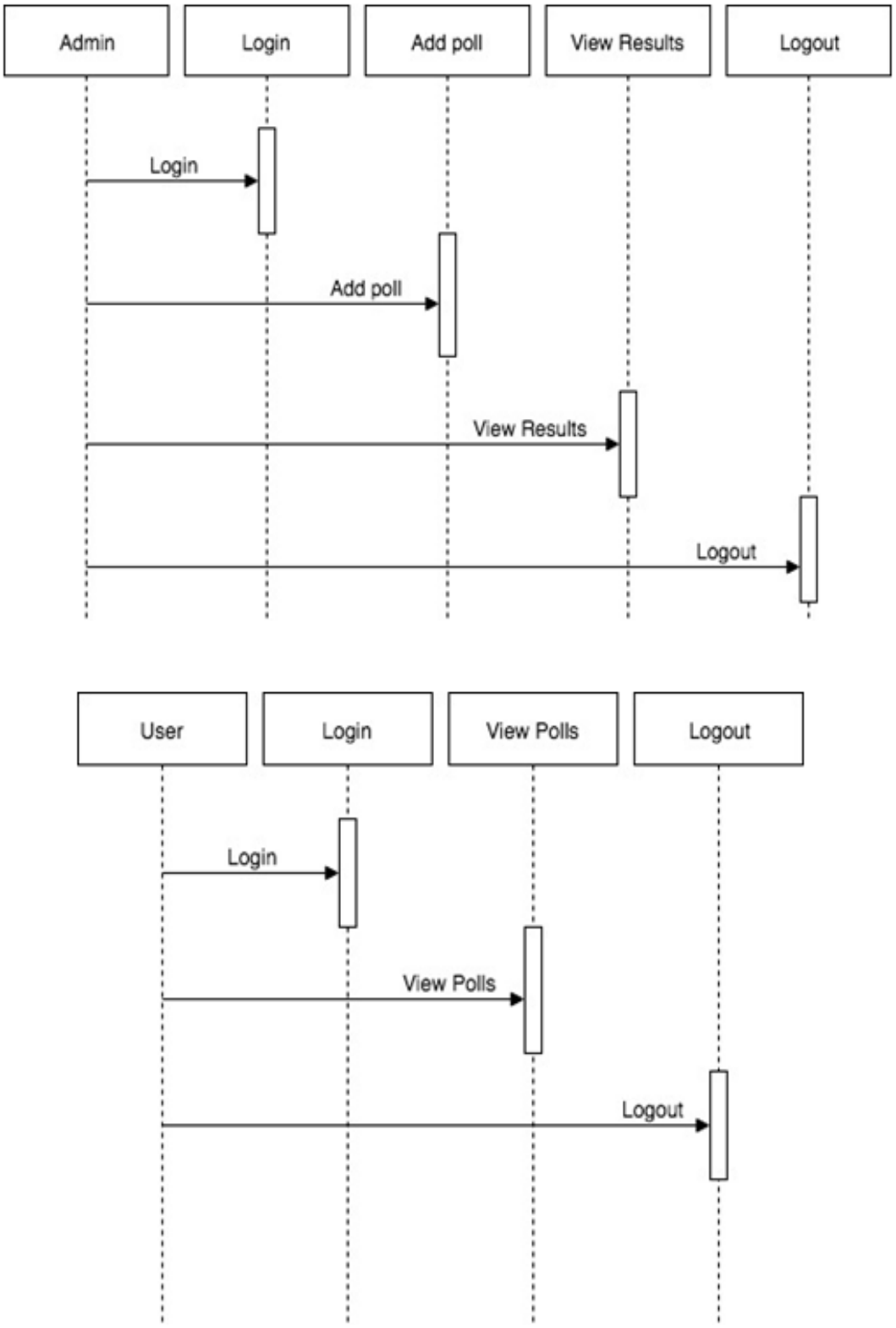
5.1 - Proposed System

5.2 Flow of Modules



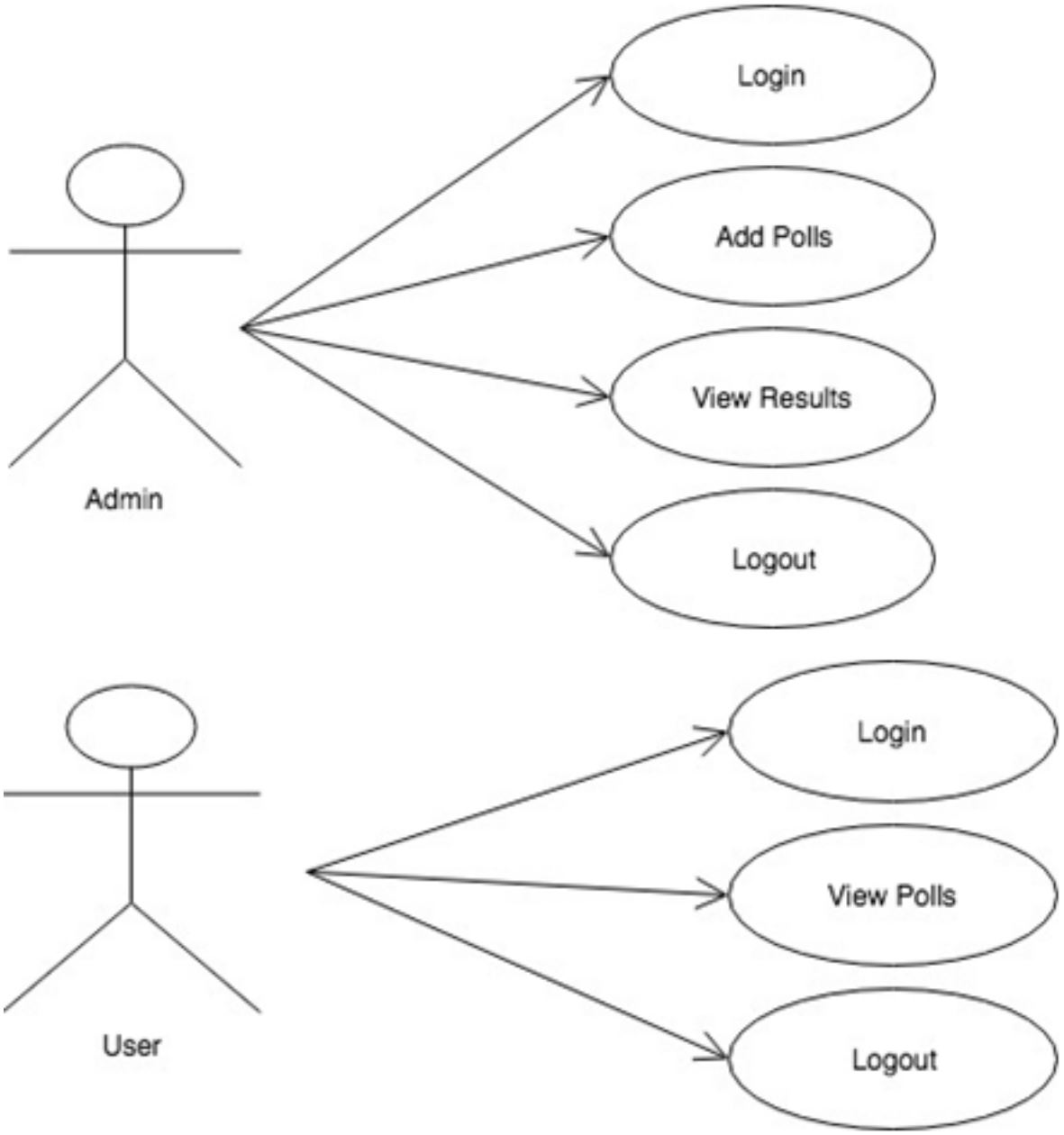
5.2- Flow of modules

5.3 Data flow Diagram



5.3 - Data Flow Diagram

5.4 Use Case



5.4 - Use Case Diagram

Chapter 6

Modules of System

6.1 Welcome Page

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

6.2 Login/Register 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, first name, last name, email, password, and confirms password. The validation of the fields is according to User Model field validation.

6.3 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.

6.4 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.

6.5 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.

Chapter 7

Project Implementation

- 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.
- 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.
- We have used Java as a Programming Language. 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.

Chapter 8

Result

8.1 Welcome Page

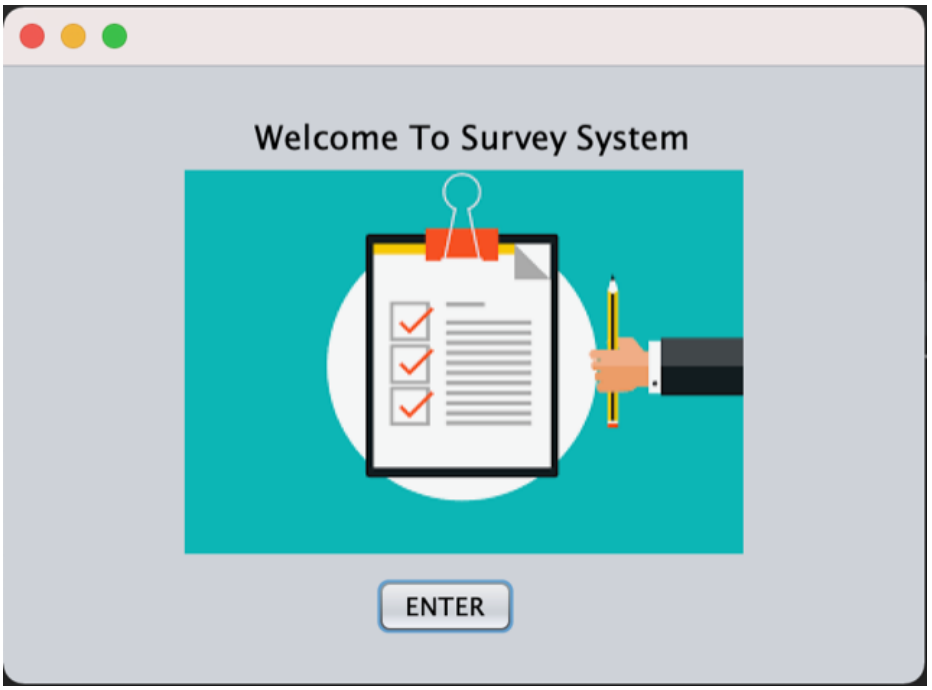


Fig. 8.1- Welcome to Survey System Page

This is the welcome page, after clicking the enter button, it will direct you to the Login / Register Page.

8.2 Login/Register Page

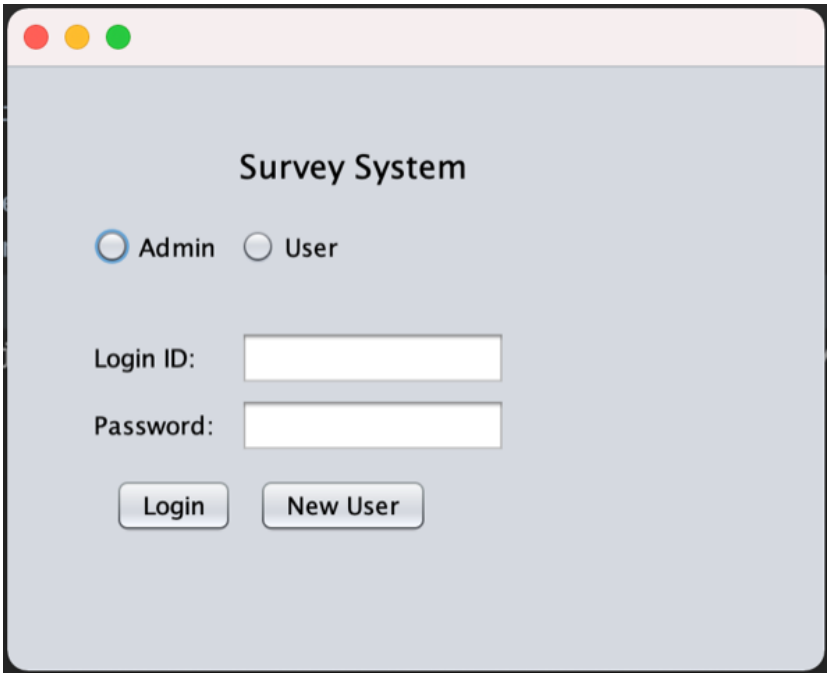


Fig. 8.2- Login/ Register Page

On this page, the user can log in with their credentials after the user registers.

8.3 Admin Home Page

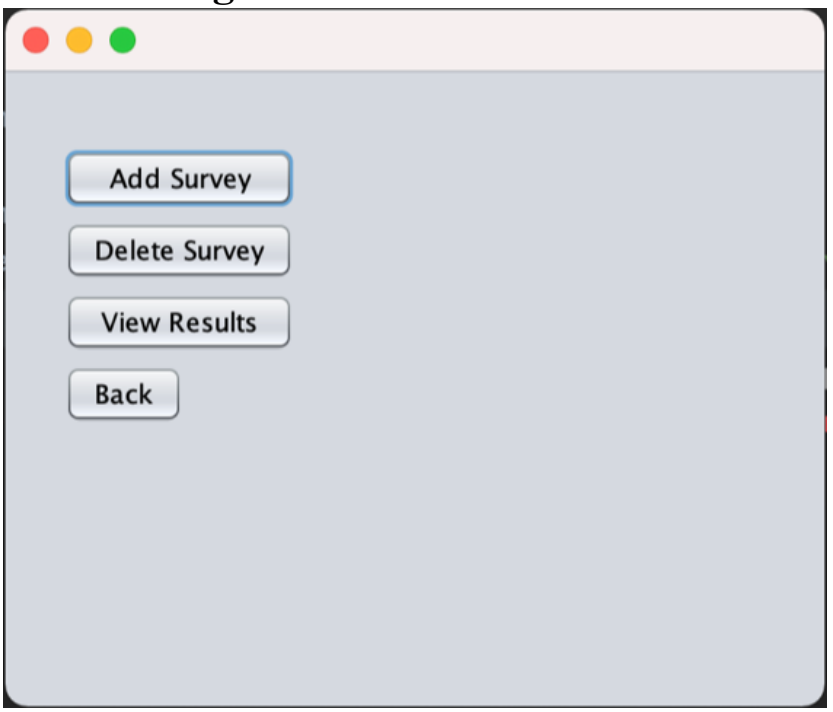


Fig. 8.3.1- Admin Home Page

On this page, after the Admin login with their credentials, it gives the option of Adding Survey Questions. It also consists of a Delete Survey button which is available through only admin login. It displays the View Results option too.

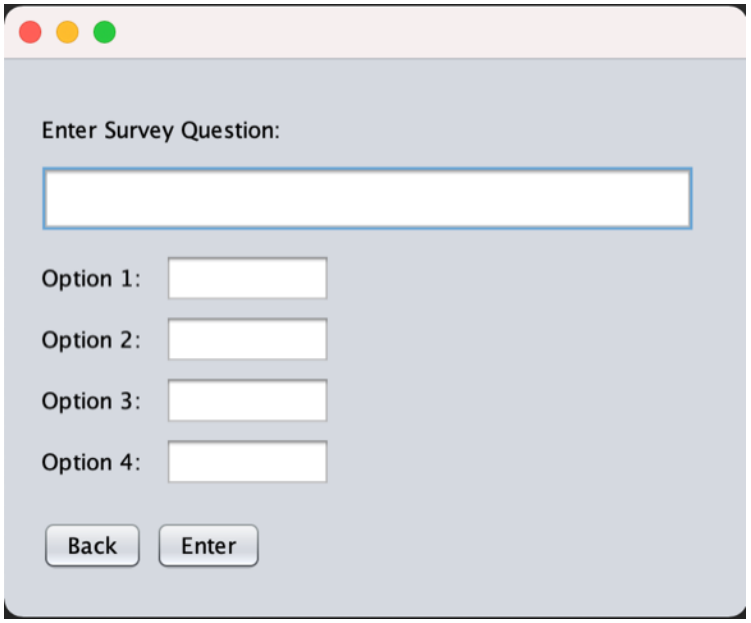


Fig. 8.3.2- Admin Home Page/ Adding Survey Page

On this page, Admin can add survey questions with options for users.

8.4 User Home Page

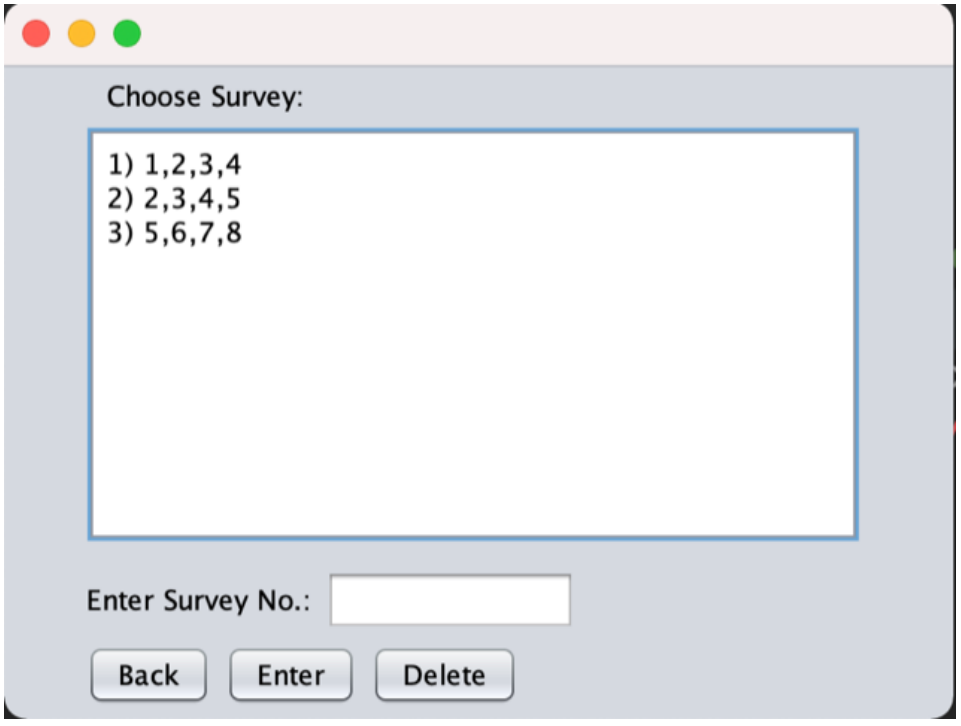


Fig. 8.4.1- User Home Page

On this page, after the user logs in with their credentials, it gives the option to choose from Survey Questions.

Fig. 8.4.2- User Home Page/ Taking the Survey

Users can take up the surveys. It has the View Results option too for Users.

8.5 View Results Page

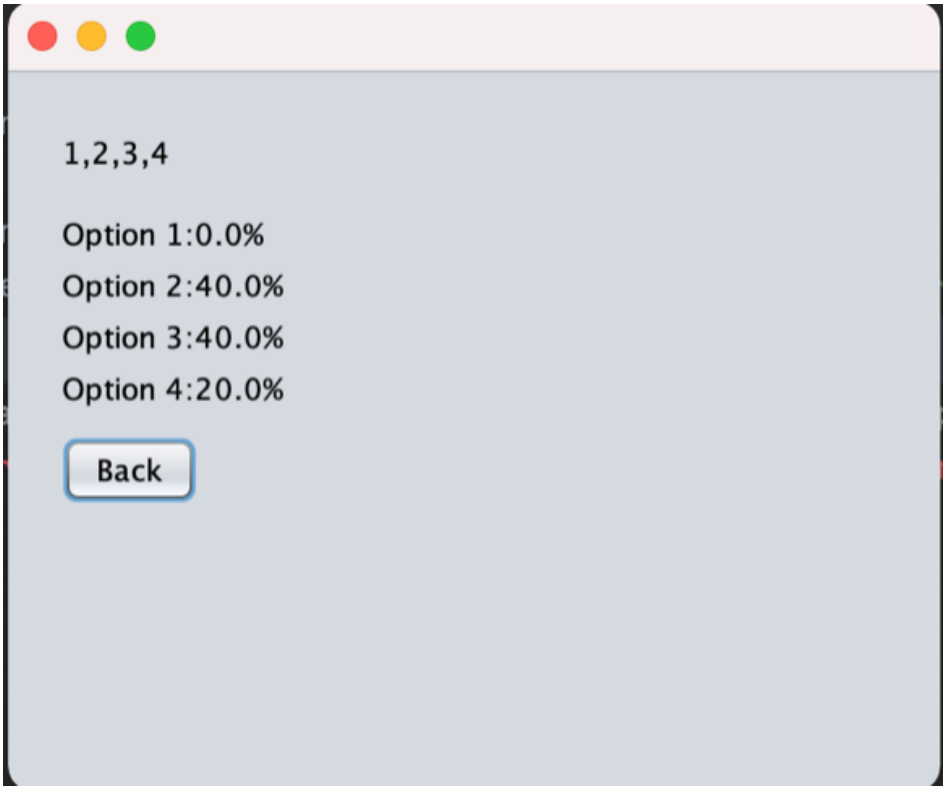


Fig. 8.5 - View Results page

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Chapter 9

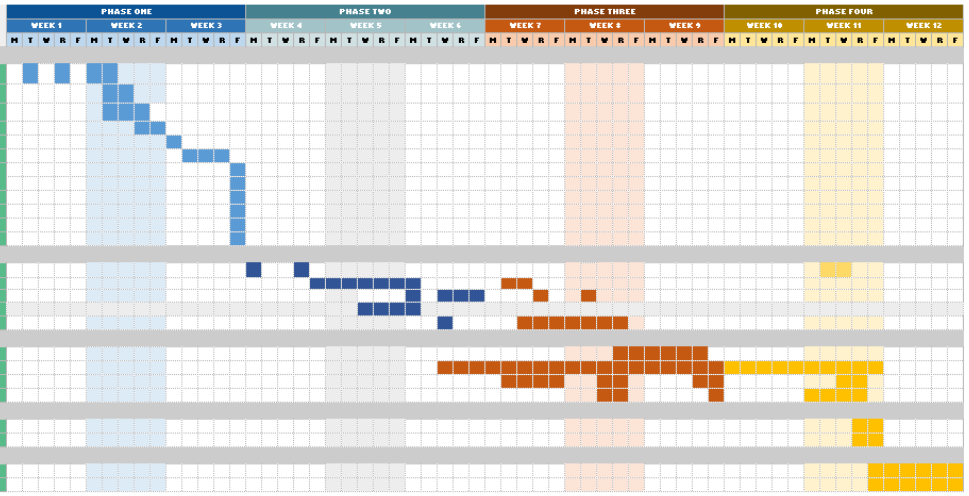
Annexure A

9.1 Gannt

GANTT CHART (Group-18)

PROJECT TITLE	Online Survey Sysytem	**COMPANY NAME**	[Company's name]
PROJECT GUIDE	Prof. Brinal Colco	**DATE**	02 October 2020

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION (DAYS)	PCT OF TASK COMPLETE
1	**Project Conception and Initiation**					
1.1	Problem search	Hritika, Atiq, Tejal	04 October 2020	06 October 2020	1	100%
1.1.1	Problem finalization	Atiq	06 October 2020	07 October 2020	1	100%
1.2	Project Title	Atiq, Tejal	08 November 2020	06 November 2020	1	100%
1.3	Abstract	Hritika	03 November 2020	20 November 2020	2	100%
1.4	Problem Definition	Hritika, Atiq	03 November 2020	20 November 2020	2	100%
1.5	Objectives	Atiq	03 November 2020	20 November 2020	2	100%
1.6	Scope	Hritika, Tejal	03 November 2020	20 November 2020	2	100%
1.7	Existing System/Project	Hritika, Tejal	03 November 2020	20 November 2020	2	100%
1.8	Technology stack	Hritika, Atiq	03 November 2020	20 November 2020	2	100%
1.9	Benefits for environment	Atiq, Tejal	03 November 2020	20 November 2020	2	100%
1.1	Benefits for society	Tejal	03 November 2020	20 November 2020	2	100%
1.11	Applications	Hritika, Atiq	03 November 2020	20 November 2020	2	100%
2	**Project Design**					
2.1	Proposed System	Hritika, Atiq, Tejal	21 November 2020	18 December 2020	1	100%
2.2	Design(Flow Of Modules)	Atiq, Hritika	21 November 2020	18 December 2020	1	100%
2.3	Data Flow Diagram	Atiq, Hritika	21 November 2020	18 December 2020	1	100%
2.4	Use Case	Atiq, Hritika	21 November 2020	18 December 2020		100%
2.5	Preparation Of Report	Atiq, Hritika	12 December 2020	18 December 2020		100%
3	**Project Implementation**					
3.1	Literature Survey	Hritika, Tejal	15 January 2021	21 January 2021	0	100%
3.2	Backend Implementation	Atiq	23 February 2021	05 April 2021	0	100%
3.3	SQL Database	Hritika	02 March 2021	05 April 2021	0	100%
3.4	GUI Part	Atiq	25 February 2021	05 April 2021	0	100%
4	**Testing**					
4.1	Design of Test Cases	Atiq, Hritika	04 April 2021	03 April 2021	0	100%
4.2	Testing	Atiq, Hritika	04 April 2021	03 April 2021	0	100%
5	**Results and Analysis**					
5.1	Analysis Of Results	Atiq, Hritika	12 May 2021	14 May 2021	0	100%
5.2	Graphical Representation	Tejal	15 May 2021	17 May 2021	0	100%
5.3	Report Preparation	Hritika, Atiq, Tejal	19-05-2021			



Chapter 10

Future Scope and Conclusion

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.

Chapter 11

Bibliography

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Acknowledgment

We have great pleasure in presenting the mini project report on **Survey System.** We take this opportunity to express our sincere thanks to our guide **Prof. Bharti Khemani,** Department of Computer Engineering, APSIT thane for providing the technical guidelines and suggestions regarding the line of work. We would like to express our gratitude for his constant encouragement, support, and guidance through the development of the project.

We thank **Prof.Sachin Malave** Head of Department, Computer Engineering, APSIT for his encouragement during the progress meeting and for providing guidelines to write this report.

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