PRODUCTIVE ONLINE VOTING MANAGEMENT SYSTEM IN C++

MINI PROJECT REPORT

Project work submitted in partial fulfillment for the award of

Degree of Bachelor of Science in computer Science

Submitted By

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Submitted to

MADURAI KAMARAJ UNIVERSITY

DEPARTMENT OF COMPUTER SCIENCE

MANGAYARKARASI COLLEGE OF ARTS AND SCIENCE FOR WOMEN

Affiliated to Madurai Kamaraj University, ISO 9001:2015 Certified Institution

Re-accredited with 'B' Grade by NAAC

PARAVAI, MADURAI -625 402.

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BONAFIDE CERTIFICATION

This is to certify that this project work entitled "**PRODUCTIVE ONLINE VOTING MANAGEMENT SYSTEM IN C++"** is a bonafide record work done by **ABARNA B (C2S20651), HEMAHARINI K(C2S20663)** in partial fulfilment for the award of the degree of the Bachelor of Science in Computer Science of Madurai Kamaraj University, Madurai.

MRS.AHADHA PRAVEEN	**Dr. M. PUNITHA**	**Dr. UMA BASKAR**
(Internal Guide)	(Head Of the Department)	(Principal)

INTERNAL EXAMINER **EXTERNAL EXAMINER**

DECLARATION

We hereby declare that this project done under the title "**PRODUCTIVE ONLINE VOTING MANAGEMENT SYSTEM IN C++**" is submitted for the award of B.Sc. Degree of Computer Science in the original work and that no part of this project has been submitted fully or partially for any other organization earlier.

Place:

Date:

Signature of the Student

ABARNA B

(C2S20651)

Signature of the Student

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We thank GOD for having shower his blessing upon me to this project work done successfully.

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We also express my sincere thanks to my guide **MRS.A.AHADHA PRAVEEN M.C.A., M.Phil., NET**, Department of Computer Science Mangayarkarasi College of Arts and Science for Women. We also express my sincere thanks to my friends. We would like to acknowledge the kind help and whole hearted co-operation extended to me by the staff members of my Department. Our heartful thanks to everyone that helped me in the successful completion this project.

TABLE OF CONTENT

ABSTRACT

Our project deals with online voting system that facilitates user (voter), candidate and administrator (who will be in charge and will verify all the user and information) to participate in online voting. Our online voting system is highly secured and it has a simple and interactive user interface. The proposed online portal is secured and have unique security feature such as unique id generation that adds another layer of security (accept login id and password) and gives admin the ability to verify the user information and to decide whether he is eligible to vote or not. It also creates and manages voting and an election detail as all the user must login by user name and password and click on candidates to register vote.

INTRODUCTION

INTRODUCTION

1.1 PROJECT AIMS AND OBJECTIVES

"ONLINE VOTING SYSTEM" is an online votingtechnique. In this system people who have citizenship of Kenya and whose age is above 18 years of age and any sex can give his \hervote online without going to any physical polling station.

There is a database which is maintained in which all names of votes with completed information is stored.

In "ONLINE VOTING SYSTEM"a vote can his\her voting right online without any difficulty. He\she has to be registered first for him/her to vote. Registration is mainly done by the system administrator for security reasons. The system Administrator registers the voters on a special site of the system visited by him only by simply filling a registration formtoregister voter. Citizens seeking registration are expected to contact the system administrator to submit their details. After the validity of them being citizens of India has been confirmed by the system administrator by comparing their details submitted with those in existing databases such as the registrar of persons, the citizen is not registered to vote.

1.2 BACKGROUND OF PROJECT

The online voting system (0VS) also known as e-voting is a term encompassing several different types of voting embracing both electronic means of counting votes. Electronic voting technology can include punched cards,optical scan voting systems and specialized voting kiosks (including self contained direct recording electronic voting systems or DRE). It can also involve transmission of ballots and votes via telephones, private computer networks, or the internet.

Online voting is an electronic way of choosing leaders via a web driven application. The advantage of online voting over the common "queue method" is that the voters have the choice of voting at their own free time and there is reduced congestion. It also minimizes on errors of vote counting. The individual database which can be queried to find out who of the aspirants for a given post has the highest number of votes.votes are submitted in a this system is geared towards increasing the voting percentage in Kenya

since it has been noted that with the old voting method {the Queue system}, the voter turnout has been a wanting case. With system in place also, if high security is applied, cases of false votes shall be reduced.

With the “ONLINE VOTING SYSTEM”, a voter can use his\her voting right online without any difficult. He\she has to register as a voter first before being authorized to vote. The registration should be done prior to the voting data to enable data update in the database.

However, not just anybody can vote. For one to participate in the electrons, he/she must have the requirements. For instance ,he/she must be a registered citizen i.e. must be 18 and above years old. As already stated,the project ‘online voting’ provides means for fast and convenient voting and access to this system is limited only to registered voters.

Internet voting systems are appealing for several reasons which include; people are getting more used to with computers to do all sorts of things, namely sensitive operations such as shopping and home banking and they allow people to vote far from where they usually live, helping to reduce absenteeism rate.

1.2 OPERATION ENVIRONMENT

RAM : 4GB

Processor : Intel(R) core(TM) i3

Hard Disk : 32 GB

Monitor : “17”inches

Mouse : optical mouse

Key board : Multimedia keyboard

SYSTEM ANALYSIS

2.1 SYSTEM REQUIREMENT SPECIFICATION

Operation system : Window 7 or above

Environment front end : Turbo C++

Designing language : C++

2.2 EXISTING SYSTEM VS PROPOSED SYSTEM

EXISTING SYSTEM

The voting system currently being used by the association is a paper based system, in which the voter simply picks up ballots sheets from electoral official, ticks off who they would like to vote for, and then cast their votes by merely handing over the ballot sheet back to electoral official.

The electoral officials gather all the votes being cast into a Ballot box. At the end of the elections, he electoral officials converge and count the votes cast for each candidate and determine the winner of each election category.

PROPOSED SYSTEM

. Here we are proposing an web application for voting process that is online voting system through SMS. The online voting system will manages the voter's details, Candidate details. The main feature of the project includes voters information and candidate information, voter can login and use his/her voting rights. The system can manage the information data very efficiently. The proposed system is more reliable, faster, accurate and easy to handle compared to existing manual system. It helps to computerize everything and reducing the errors as compare to manual voting system.

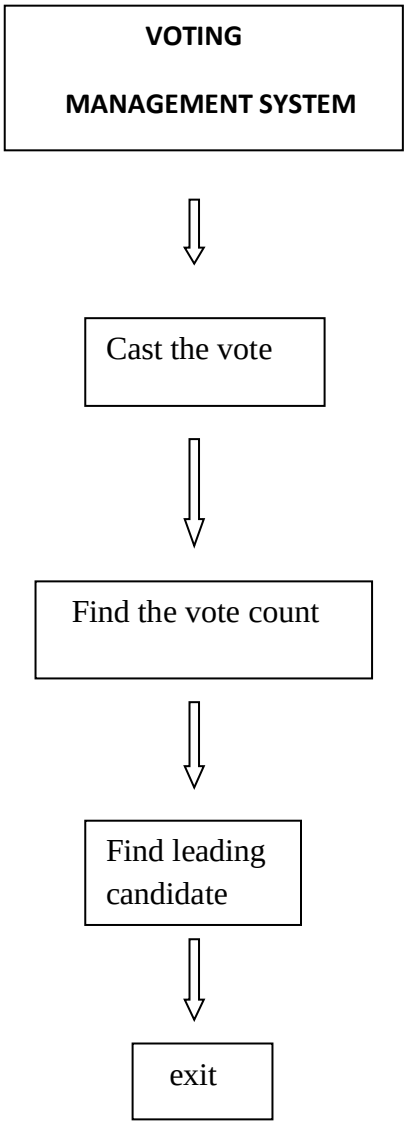
2.3 SOFTWARE TOOL USED

Operating system : Windows 7 or above

Version : 10, 8.1 & 8

SYSTEM DESIGN

3.1 DATAFLOW DESIGN



SYSTEM IMPLEMENTATION

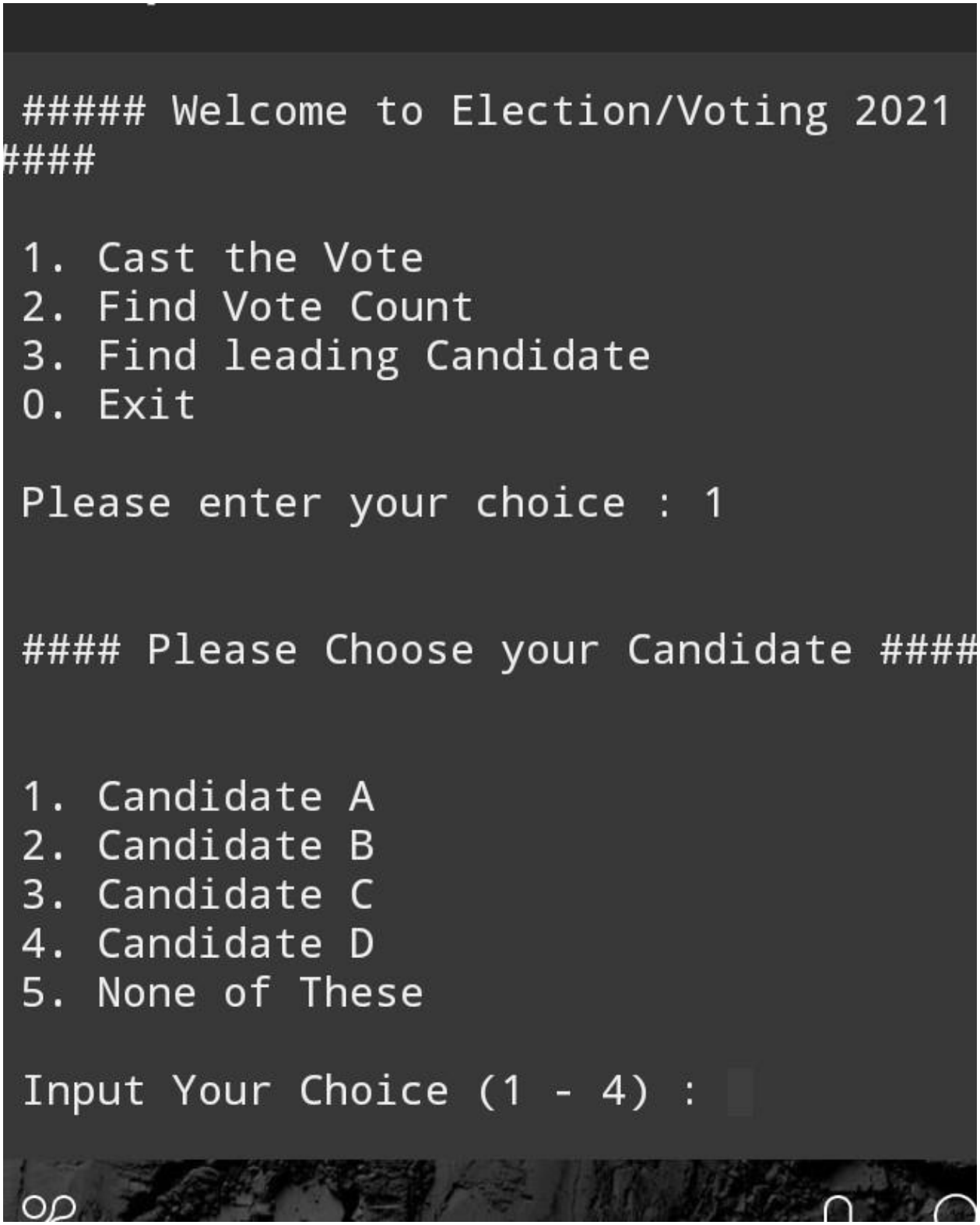
SYSTEM IMPLEMENTATION

Managing system implementation application development ,training,data conversion, system changeover ,and post-implementation evalution of the results. during systems implementation the system design specification serves as a blueprint for constructing the new system. The initial task is application development ,which requires systems analysts and programmers to work together to construct the necessary programs and code modules.

4.1 MODULE DESCRIPITION

Voting module provides a secure interface for voters to cast their votes.ensures one person one vote and maintains vote integrity.voting counting module counts and tallies the votes after the voting period ends.ensures accuracy and transparency in the counting process.database module manages the storage and retrival of user,candidate,and voting data.ensures data integrity and security.notification module sends notifications to users about important events,such as upcoming elections or election results.reporting module generates reports and statistics on election results.provides insights into the voting process.

SCREEN SHORTS



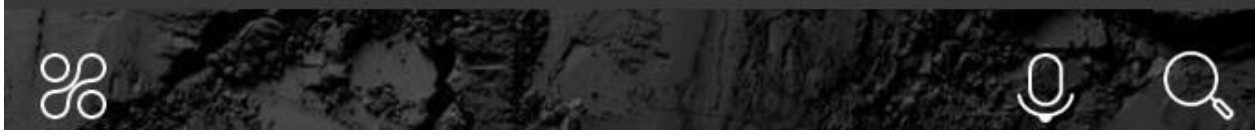
```
 Thanks for vote !!!!

 ##### Welcome to Election/Voting 2021 #
####

 1. Cast the Vote
 2. Find Vote Count
 3. Find leading Candidate
 0. Exit

 Please enter your choice : 2


 #### Voting Statics ####
 Candidate A - 1
 Candidate B - 0
 Candidate C - 0
 Candidate D - 0
 Spoiled Votes - 0
```



```
 1. Cast the Vote
 2. Find Vote Count
 3. Find leading Candidate
 0. Exit

 Please enter your choice : 3


  #### Leading Candiate ####

[Candidate A]

 ##### Welcome to Election/Voting 2021
####

 1. Cast the Vote
 2. Find Vote Count
 3. Find leading Candidate
 0. Exit

 Please enter your choice :
```

SYSTEM TESTING

5.1 UNIT TESTING

Unit testing focuses effort on the smallest unit of software design of the module. This is also known as ‘Module Testing”, The module of FSA system is tested separately. This testing was carried out during programming stage it self in this testing each module is found to be working satisfactorily with regards to the expected output from the module.

5.2 INTEGRATION TESTING

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is even driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfaction, as shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

CONCLUSION & FUTURE SCOPE

CONCLUSION

This online voting system will manage the voter's information by which voter can login and use his voting rights. The system will incorporate al features of voting system. It provides the tools for maintaining voter's vote to every party and it count total no. of every party. There is a DATABASE which is maintained by the ELECTION COMMISION OF INDIA in which all the names of names of voter with complete information is stored.

In this user who is above 18 years register his/her information on the database and when he/she want to vote to vote he/she has to login by his id and password and can party only vote to an single time. Voting detail store in database and the result is display by calculation. By online voting system percentage of voting is increase. it decrease the cost and time of voting process. It is very easy to use and it is very less time consuming. It is very easy to debug.

The traditional method of manual voting system has few drawbacks. This method is obviously not efficient as it wastes the voter's energy and quite slow in term of completion. This smart involves the voters can cast their vote easily, and can be implemented to the entire India.

FUTURE SCOPE

In case of large data storage,the sorting of data e.g. individual voter details would take a long time. hence improvement applications can minimize the time. specific input devices (e.g.voting ads)could be an added advantage to the system.candidate name and number are only possible options in this application ,individual candidate terms can be added to the application .improvement can be done to make the application workable on net so that voting can be possible.

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