



Sri Lanka Institute of Advanced Technological Education (SLIATE)

Higher National Diploma in Information Technology

PROJECT PROPOSAL Individual (Network Track)

**TITLE
ONLINE VOTEING MANAGEMENT SYSTEM.**

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1. INTRODUCTION

The online voting system is the system that aims in reducing the complexity and cost of the election process. Here the voter can vote in spite of his absence in the particular locality. The administrator's effort is much reduced by checking the election status of all the localities individually forms a place and it is easy for him to announce the election result. The administrator is the soul controller of the online voting system in all process including refreshing the votes, editing the voter details, creating new nominee and so on. Thus the online voting system can reduce the cost and effort of election process.

In this voting system each voter will be provided with a specific voter-id and a password through which access for the voting can be granted. If once the access is granted for a voter-id then the access is denied for logging in till the voting system is refreshed for the next election. Similarly the administrator will be provided with a special id through which he can view the status of the election.

Based on the id segregation between the voter and administrator is carried out initially. If the user id is invalid then an error message will be displayed. If the id entered is of type administrator then an information i.e., the election status will be displayed which changes dynamically. Otherwise the voter information will be displayed which changes dynamically depending on the changes made which will proceed him to the next level in which he can cast his vote and it is updated automatically. The advantages of the online voting system is that the speed of information retrieval and updating is made easy and other advantage are

High level security to avoid illegal polling.

- Online implementation makes it easy for voters to participate in election.
- As for considering election commission board it becomes easier to conduct election.
- Election expenses can be reduced.
- Non-Residential citizens can also participate in the election

2. Background and Motivation

Nowadays, there are tons of things we do online, from shopping to doing any kind of official arrangement. And you may think, why not voting online too? Whether you are part of a small, medium or large organization, you may have thought at some point about the reasons to choose online voting and how it could benefit your entity. Here I give you five reasons why online voting could be a good option for you:

- **Vote at any time from anywhere:** Today's way of living doesn't leave much free time. We have little to no time to do anything or go anywhere. So don't you think that maybe giving the chance to the members of your organization to cast their vote in just a few minutes, without the need to go to a certain place, would be a good option? If your answer is "yes", then you should probably consider online voting. Unlike traditional voting, that makes voters go to a specific place at a specific time in order to vote, online voting allows them to cast their vote at any time of the day and from any place, just with the need of an Internet connection.
- **Boost participation:** As a result of the previous point, choosing online voting for your election will more likely boost the participation. You will give the chance to members that otherwise may not be able to vote. At this point, you might be thinking "what about the people that for any reason can't vote online, wouldn't we lose their participation then?". I have good news for you: running an electoral process online does not mean that you have to discard traditional voting. This is not one thing or the other. Depending on the provider of the online voting system you choose, a hybrid election might be possible. With a hybrid voting, you will be able to let voters participate in the election by either of the two ways, traditional or online. In this type of voting a complex method avoids voters to vote more than once, just like in the all traditional or all online methods.
- **Less physical infrastructure:** When running a voting online, you avoid the need for all the physical infrastructure usually required on a traditional voting. No need of paper, printing, physical urns or staff may, therefore, lead to a lower monetary investment.

3. Aims and Objectives

- To build an online polling system that the world enable voters to cast their votes not more than once for their chosen candidates
- Creating a secure authentication facility to check & validate users logging into the voting system
- Create a database to be used to stored votes, and user information on the system
- Enable the system to tally votes cast according to candidate voted for.
- Display voting results in a graphical fashion for the administrator to analyze

4. Problem in brief

Here the existing system is manual to keep the record of the Students, Academic and Non – academic staff's details in the Institute. People still prefer to follow the manual method even if there is automated system to keep the record. We have found that they record all information in a file. They are using this way to keep the record of Students details, Teachers details and account details etc. Following this method is very time consuming. It has many drawbacks as there may be mistakes while recording large data and this may disrupt the important transaction. They faced a problem while they Searching for a student details, Teachers leave file or any other related details

Other problems of the existing system are:

- Searching a particular detail is difficult
 - There are over 1000 students and 50 Lectures in this institute. So, admin search a particular person's details is not easy it may take a long period to identify the correct data.
- Fast report generation is not possible
 - This current system keeps in manually by the M.A of the Institute. So, Students or Lecturers get their personal reports is difficult.
- Information about inventory is not properly maintained
 - Under a government, an organization has so many responsible for government properties. So, the principal is responsible person for everything in the Institute.
- Lack of security
 - Manual or file system can less secure than computerized system. Sometimes the traditional system can damage by any issues.

5. Proposed solution

The Proposed Solution of the manual management is to develop a computerized Institute management system. Before developing the proposed system, there is need to identify;

- a) The design of the proposed system
- b) The main users of the Institute management system
- c) The activities of the main users

5.1 The Design

The proposed system will be designed using Visual Studio and ASP.NET as the front end and MSSQL as the back end. The size (in terms of memory) of the proposed system will be small.

5.2 The main users

The main users of the proposed system are the Students, Lectures and the Administrator.

5.3 Their activities

The activities of the main users of the proposed system are listed in below

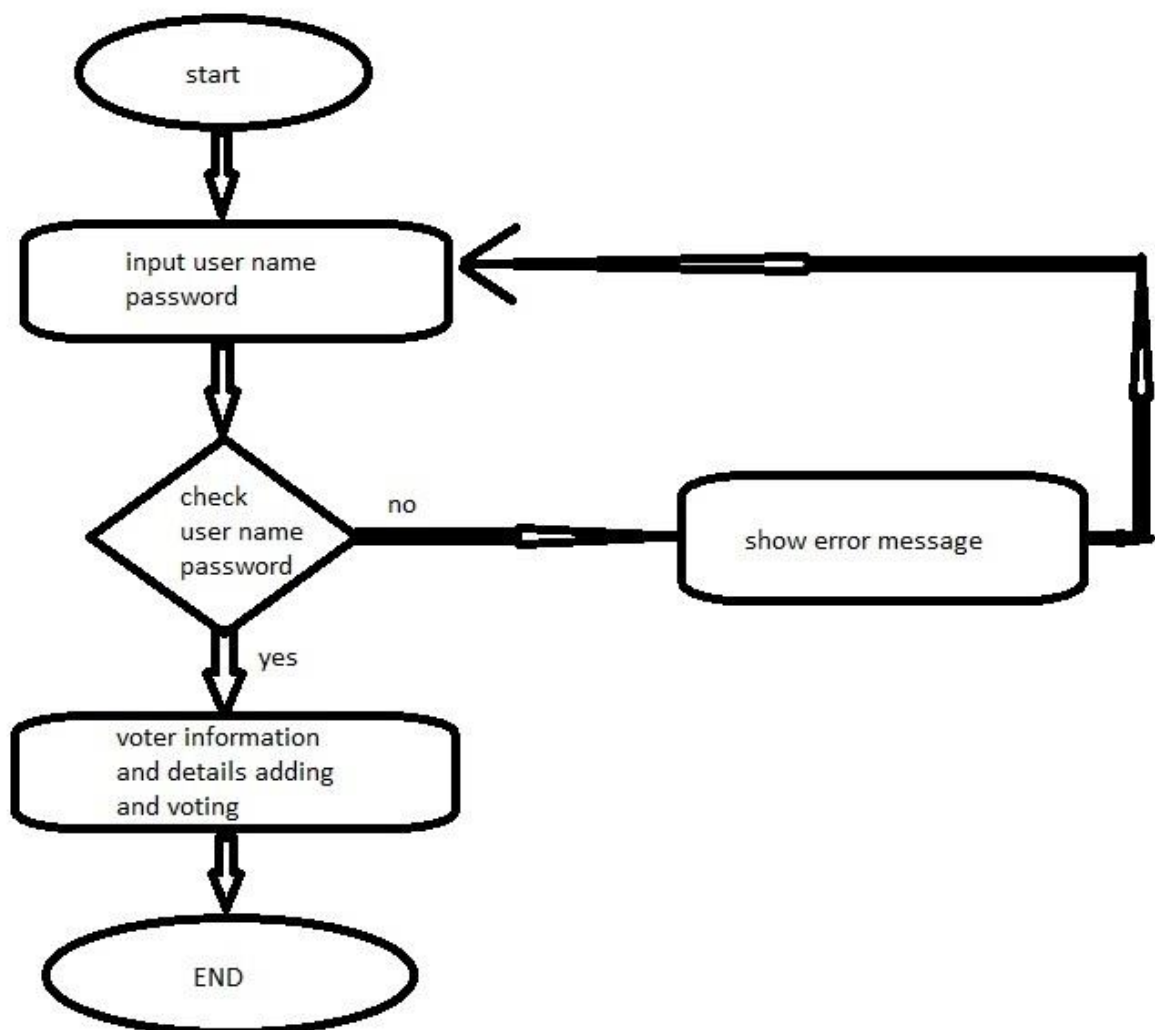
Activities of Students and Lecturers

- Search the details
- View students grade
- Update their details
- Add Notes into LMS

5.4 Activities of an Admin

- Add/Delete members
- Maintain Accounts
- Deliver timetables

5.5 PROJECT DIAGRAM



6. Resource requirements

The proposed system will be develop using Sublime text and PHP

6.1 Hardware Requirements

- PC or Laptop with Minimum Core 2 Duo Processor.
- Minimum 1 GB space in Hard Disk
- Minimum 1 GB Ram
- Internet Connection : At least 1 Mbps]

6.2 Software Requirements

- Operation System : Windows 7 or Above
- Language : PHP
- IDE : Sublime text
- DBMS : MYSQL

7. References

1. Electronic voting system by Afolabi B. Oluwagbenga (2014)
2. Secure online voting system by Michael Chinwuba (oct,21, 2009)
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4. Project report on online voting by Nandasaba Wilson (July 28, 2012)

THANK YOU..