TOPIC:

Mobile Basee Voting System (Evote)

ABSTRACT

The word "vote" means to affirm a formalised choice in an election. In the political environment of tertiary institutions

 voting allows students to choose the leaders who emerge. The majority of institutions Russia have problems when it comes to voting. Some of them include vote rigging during the election, overcrowded voting centres, inaccessible and unsecured polling arena, inexperienced staff, etc.

Voting in these institutions was found to be limited to methods such as paper ballots, on-site counting, The counting of ballots is time-consuming, leading to delays in the results. In addition, the calculation of results can be biased and time consuming, causing voters to wait for results. This android voting application seeks to solve the above problems

In today's scenario, where everything is speeding up and new ideas and inventions are always appreciated, our mobile app is also a part of it. Evote is more effective and convenient to conduct and manage elections as compared to the traditional manual methods With this application, students in universities, colleges of education, polytechnics ... will be given sufficient time to vote.

The application will be used to assist student users during voting sessions. They will also be trained on how to vote using the application before the time of the election.

Students will also be trained on how to use the application before the election, although very little training is required as the application is easy to use.

The application has a simple and interactive graphical interface for the voting system and maintains its database using the MongoDB Stitch platform. MongoDB is a Backend-as-a-Service - BaaS that allows users to create more powerful, secure and scalable applications. Our App allows users to vote from anywhere at any time, without having to wait in long lines. Election results are automatically calculated and reported instantly, reducing human effort and the risk of error.

INTRODUCTION

Voting is one of the most important ways for individuals to participate in government decision-making. It is a method for voters to actively participate in decision making or express their opinion. In a democracy, a government is chosen through elections. By voting in elections, citizens have the right to choose their representatives, whether it is a local government official or the prime minister of a country. Old voting techniques are the traditional voting methods. Electronic Voting Machines (EVMs) have been used in general elections since 1999 until today. EVMs have replaced paper ballots in a few categories of elections, but there are still a number of scenarios in our daily lives where traditional voting practices like paper ballots are still used. Voting in these typical scenarios can be done through a mobile app-based online voting system. For example, in many colleges, student council, departmental council, staff association, and residence hall elections are conducted using paper ballots. The process of electing officers in club or professional organization elections is still done using the traditional paper ballot process.

The use of paper ballots is often more cumbersome, time consuming, and subject to human bias. A number of factors, such as getting to polling places, long lines, bad weather, traffic, etc., make traditional elections difficult for both voters and poll workers. These factors often lead to a decrease in voter participation in the electoral process.

Online electronic voting is an essential step in the evolution of democracy. It is an ideal medium for elections of associations, councils, clubs, unions, educational institutions and other organizations, etc.

Our goal is to develop a mobile application that allows users to vote online via their cell phone. The application is developed to improve the voting process and make it more efficient. This application provides a new method of voting and managing elections, which reduces time, cost and human effort.

Our app is developed so that students can vote anytime and from anywhere using Android devices. The goal of the app is to make it easier for voters and election officials to monitor the voting process. The app provides election results accurately and instantly.

The application have a user-friendly login screen interface for voters, where they can log in with their credentials. Each voter's data is stored in a database containing their essential information such as account ID, name, username, password, email address and a voting status that indicates whether the voter has voted or not.

After logging in, voters have access to the voting interface "voting screen" that allows them to select candidates for given positions and securely submit their voting data. Once a voter has submitted their answer, they are not allowed to resubmit it. Thus, the application ensures that there are no false votes in the elections.

The entire voting process is under the control of the system administrator. The administrator must login. After successfully logging in, the administrator has access to the "administration screen" where the options of activating/deactivating voting lines and viewing the results are available.

Chapter1: PREAMBLE

The Mobile-based online voting system is an online voting technique. In this system, eligible voters of any gender can vote online without visiting a physical polling station.

In mobile BASED ONLINE VOTING SYSTEM a voter can use his voting right online without any difficulty. He has to be registered first for him 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 form to register voter. User seeking registration are expected to contact the system administrator to submit their details.

After the validity has been confirmed by the system administrator by comparing their details submitted with those in existing databasessuch as those as the Registrar of Persons, the user is then registered as a voter.

After registration, the voter can use his VoterID and Password to log into the system and enjoy services provided by the system such as voting.If invalid/wrong details are submitted, then the useris not registered to vote.

## I.1 Existing System

In existing system of voting, voter go on voting booth on the day of voting. There is no any centralized system, where we can cast our vote from remote location. There is no proper authentication present of an individual. There is manual work involved, so it may generate errors in the system. The Traditional approach is very time consuming and have got manual errors.

## I.2 Problem Statement

**- Expensive and time-consuming:** The process of collecting data and entering it into the database is time-consuming and expensive. For example, time and money must be spent printing data entry forms, preparing registration stations and human resources, and then advertising. printing data entry forms, preparing registration stations and human resources, and then advertising on the days set for the registration process, including educating voters about the need to register. registration, as well as the time spent entering that data into the database.

**- Too much paperwork:** The process involves too much paperwork and paper storage. Paper storage is difficult because paper is getting larger as the population increases.

**- Data entry errors:** Errors are common to all human beings. It is very unlikely that humans are 100% efficient in data entry.

**- Loss of registration forms:** Sometimes registration forms are lost after they have been filled out with the voter's details. In most cases, it is difficult to follow up and as a result many people are not registered, even though they are of voting age and interested in exercising their right to vote.

**- Limited time to consult the register of electors:** This is a very important problem, as not everyone has the time to consult and update the register of electors during the short period of time allotted.

**- More importantly, a number of voters end up being prevented from voting.**

## **I.3 Objective of the project**

Specific objectives of the project include:

- Review the existing/current voting process

- Propose an automated voting system for organization.

- Implementing an automated/online voting system.

- Validating the system to ensure that only legible voters are allowed to vote.

## I.4 Proposed system

This system was proposed to eliminate the difficulty for people to vote in the voting booth. the voting booth. Whenever the notification of the scheduled date is received on the user's Android device, the user can vote from anywhere at any time. To vote, the user must be authorized and the proposed system allows for voter authentication.

During registration, the proposed system will get all the details of the user. In the proposed system advancement in Mobile device is very easy and secure voting. The proposed system provides the specifications and requirements for electronic voting using Mobile platform.

## I.5 Scope of the study

It is to study the existing voting system in Organization and make surethat the people's vote counts, for equity in elective positions. This project will also

produce:

- Less effort and less work, as the main cost and purpose is to the creation, management and operation of a secure online voting portal.

- An increasing number of voters, as individuals, will find it easier and more convenient to vote

# Chapter 2: THEORETICAL BACKGROUND