



Voting System

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Problem Overview

Traditional voting methods, such as paper-based or manual tallying, are prone to inefficiencies, delays, and inaccuracies. These systems often result in low voter turnout due to the inconvenience of physical polling stations. Additionally, maintaining the security and confidentiality of votes in manual systems can be challenging, leading to distrust in the process.

Proposed Solution

The **Online Voting System** is a secure, efficient, and user-friendly digital platform that simplifies the voting process. By leveraging modern technologies, this system enables voters to cast their votes online, ensuring transparency, accessibility, and real-time result tracking. The system is designed to be scalable and adaptable for various types of elections, including organizational polls, academic elections, and community decision-making.

Objectives

1. Provide a secure platform for conducting online elections.
2. Enhance voter accessibility by enabling remote participation.
3. Automate vote tallying and provide real-time results.
4. Ensure transparency and trust through robust security measures.
5. Minimize the cost and effort associated with traditional voting methods.

Scope

The system will serve the following stakeholders:

- **Voters:** Individuals casting votes online.
- **Election Administrators:** Responsible for setting up elections, managing voter lists, and generating reports.

The system will include the following modules:

1. **User Authentication:** Secure login for voters using unique credentials or multi-factor authentication.
2. **Election Management:** Tools for administrators to create, schedule, and manage elections.
3. **Voting Process:** User-friendly interface for voters to select candidates or cast their votes.
4. **Real-Time Results:** Instant tallying and display of election outcomes for authorized users.
5. **Reports and Analytics:** Detailed election reports for post-election analysis.

Key Features

- **Secure Authentication:** Multi-factor verification to ensure only authorized users can vote.
- **Confidential Voting:** Encryption of votes to maintain anonymity.
- **Real-Time Results:** Automatic calculation and display of results after voting ends.
- **Audit Trails:** Comprehensive logs for transparency and verification.

- **Scalability:** Supports elections with thousands of voters.
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Benefits

- Simplifies the voting process, encouraging greater voter participation.
 - Reduces costs associated with printing and manual tallying.
 - Improves accuracy by eliminating human errors in vote counting.
 - Provides instant results, reducing delays in decision-making.
 - Builds trust in the voting process through secure and transparent systems.
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Budget

The estimated cost for developing the Voting System is as follows:

- **Development Cost:** K3,000
 - **Maintenance (OPTIONAL):** K1,500 **per month** or K9,500 **per year**
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Conclusion

The **Online Voting System** offers a modern and secure alternative to traditional voting methods, ensuring efficiency, transparency, and accessibility. By digitizing the voting process, this system empowers organizations and communities to conduct elections with confidence and ease.

Approval Requested By:

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