GLA University

Topic: Online Voting Portal

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DECLARATION

Our Team here by declare that the Project work, which is presented in the Synopsis, entitled "Online Voting Portal" is duly prepared by us to be submitted to the department in partial fulfilment for the award of the degree of Bachelor of Computer Applications for the academic year 2022-2023.

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Date: 17/04/2023

Place: AB-1, 309

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Introduction

The online voting system is a modern method of casting votes electronically over the internet. This project aims to develop a reliable online voting system that will provide a convenient and efficient way for voters to cast their votes remotely.

Our portal is designed to make it convenient and accessible for eligible voters to participate in the democratic process. Whether you're a first-time voter or an experienced voter, our online portal provides a seamless and efficient way for you to engage in your civic duty and exercise your right to vote.

In “ONLINE VOTING SYSTEM” a voter can use his\her voting right online without any difficulty. All the entries are checked by the DATABASE which has already all information about the voter. If all the entries are correct then a USER ID and PASSWORD is given to the voter, by using that ID and PASSWORD he\she can use his\her vote. If conditions are wrong, then that entry will be discarded.

Reasons for particular topic choose.

The topic of online voting portals is also timely and relevant due to ongoing discussions and debates on the use of technology in elections, including the advantages, challenges, and risks associated with online voting. Many countries and jurisdictions around the world are considering or have already implemented online voting portals as a means to modernize their election systems and increase voter participation.

Furthermore, the COVID-19 pandemic has highlighted the need for alternative voting methods, including online voting portals, to ensure the continuity of democratic processes during times of crisis or when physical polling locations may be inaccessible. This has further fuelled discussions and debates on the feasibility, security, and integrity of online voting portals.

Overall, the topic of online voting portals is of significant interest and relevance in today's digital age, as it involves critical considerations related to technology, security, accessibility, inclusivity, and democracy. It is important to carefully examine and understand the various aspects of online voting portals to make informed decisions and ensure the integrity of democratic processes.

OBJECTIVE

The main objectives of this project are to develop an online voting system that is secure, reliable, and easy to use. The system should also be scalable and capable of handling a large number of voters at the same time. The key features of the online voting system are:

- Accessibility: The portal should be designed to be inclusive and accessible to all eligible voters, including individuals with disabilities or language barriers, to ensure that they can exercise their right to vote without any hindrance.

- Convenience: The portal should provide a user-friendly interface that makes it easy and convenient for voters to complete tasks such as voter registration, updating information, and requesting absentee ballots online, saving them time and effort compared to traditional methods.

- Security: The portal should have robust security measures in place to protect the personal information and voting data of users, ensuring that their data is kept confidential, secure, and protected from unauthorized access or tampering.

- Accuracy: The portal should be designed to minimize errors in voter registration and ballot processing, ensuring that the information entered by voters is accurate and reliable, and that the integrity of the voting process is maintained.

- Trustworthiness: The portal should be transparent, reliable, and trustworthy, instilling confidence in voters that their votes will be counted accurately, and their personal information will be handled securely and confidentially.

- Compliance: The portal should comply with all relevant laws, regulations, and guidelines governing elections and voting, ensuring that the platform is legally compliant and adheres to the highest standards of integrity and fairness.

- Education and Resources: The portal should provide educational resources, information about voting requirements, deadlines, and procedures, and other relevant information to help voters navigate the voting process and make informed decisions.

SCOPE

The scope of an online voting portal refers to the range and extent of features, functionalities, and services that the portal is intended to provide. The scope of an online voting portal may vary depending on the specific requirements and goals of the election management body or organization implementing the portal. Here are some potential aspects of the scope of an online voting portal:

- Voting Process: The portal may provide a secure and user-friendly interface for voters to cast their ballots online, which may involve measures such as encryption, multi-factor authentication, and ballot verification to ensure the integrity and security of the voting process.

- Vote Counting and Tabulation: The portal may facilitate the collection, aggregation, and secure storage of the cast votes, and provide mechanisms for transparent and verifiable vote counting and tabulation.

- Security Measures: The portal may implement robust security measures, such as firewalls, intrusion detection systems, encryption, and regular security audits, to safeguard against potential security threats and ensure the confidentiality, integrity, and availability of user data and the voting process.

- Compliance and Audit: The portal may comply with all relevant laws, regulations, and guidelines governing elections and voting, and may undergo regular audits to ensure compliance and identify any potential vulnerabilities or weaknesses that need to be addressed.

- Reporting and Results: The portal may generate reports and provide real-time or near-real-time results of the election for stakeholders, including election officials, candidates, and the public.

- Accessibility and Inclusivity: The portal may be designed and developed with accessibility features to accommodate voters with disabilities, ensuring that all eligible voters have equal access to the online voting process.

It's important to note that the scope of an online voting portal may be subject to legal, regulatory, and operational considerations, and may vary depending on the jurisdiction, requirements, and resources of the implementing organization. Thorough planning, stakeholder engagement, and careful consideration of the scope are crucial to ensure the successful implementation and operation of an online voting portal.

METHODOLOGY

The online voting system is a web-based application that is developed using PHP, HTML, CSS, and JavaScript. The system uses a MySQL database to store the voting data.

The system has two main interfaces: one for the voters and the other for the administrators. The voters' interface allows them to view candidate profiles and cast their votes. The administrators' interface allows them to manage the voter and candidate databases, monitor the voting process, add new voters and declare the results.

The portal needs to be designed and developed with a user-friendly interface that is easy to navigate and understand. It should be accessible across different devices, such as desktop computers, laptops, tablets, and smartphones, to accommodate different users' needs. The portal may be built using secure coding practices and robust security measures to protect against potential cyber threats.

Details About System and Hardware Requirements

System Requirements

Operating System: WindowsXP/Windows7, Windows8, Windows10, Windows11, Linux

Software: Apache Server, PHP, HTML, JAVA, CSS etc

Hardware Requirements

Hard Disk: 50GB and above

Processor: dual core

RAM: 2GB

Technology

Front End: HTML, CSS, Js, Bootstrap

Back End: PHP

Database: MySQL Server

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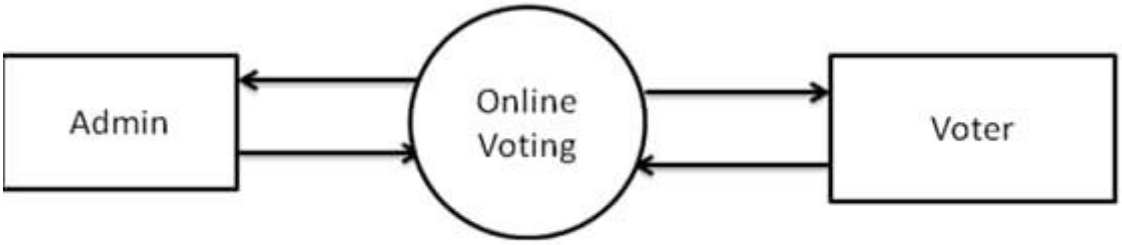

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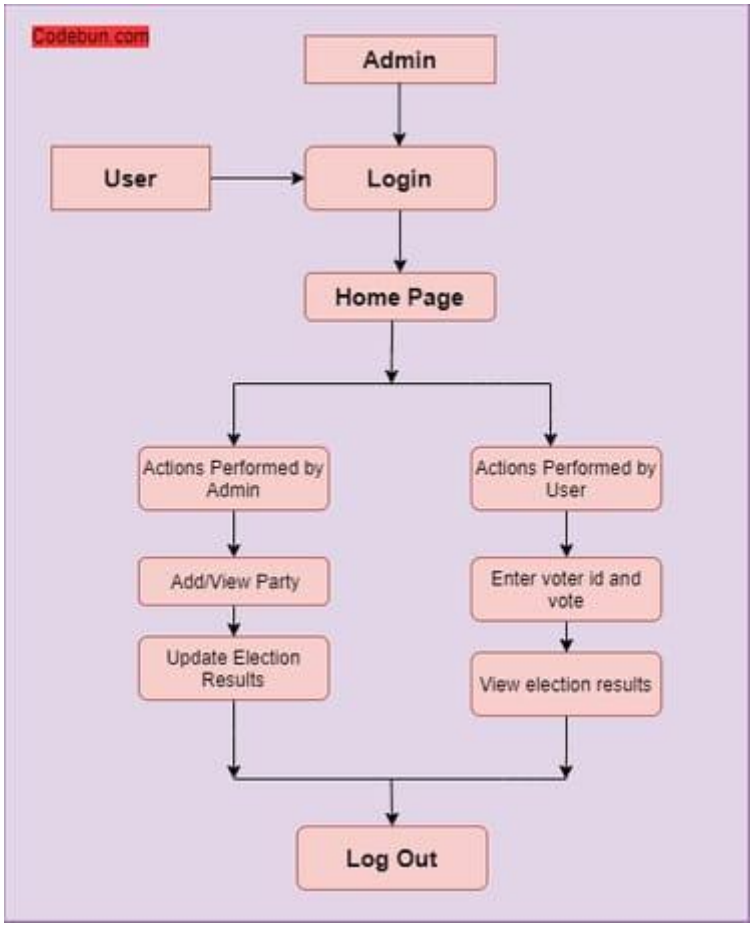

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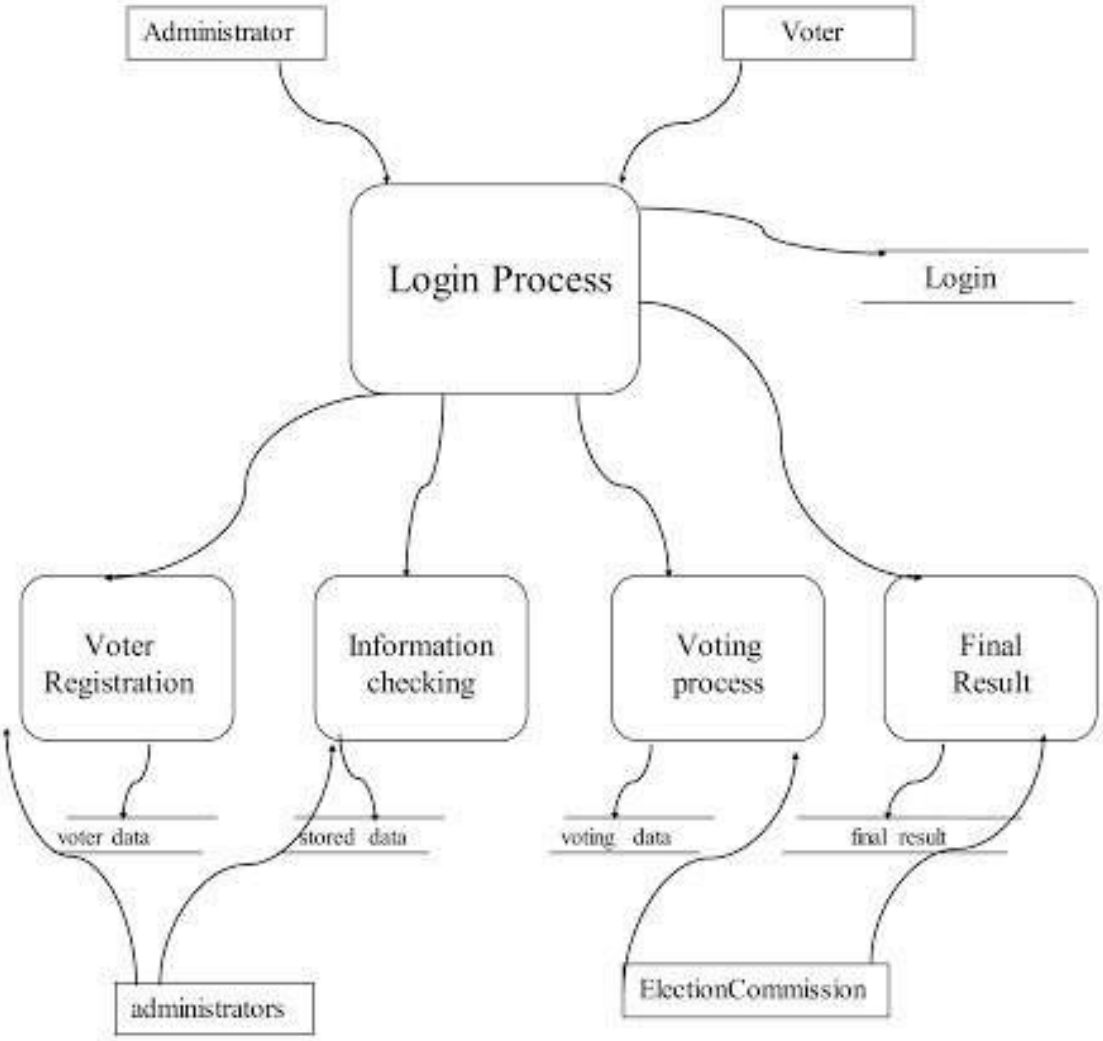
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Voter
Login Process
Login
Voter Registration
Information checking
Voting process
Final Result
voter data
stored data
voting data
final result
administrators
ElectionCommission

Level 2

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