

Digital Electoral System for University Governance

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Abstract

The physical processes involved in election nominations and voting are resource-intensive. This application offers a streamlined solution for conducting elections, particularly with educational institutions. Candidates interested in contesting elections can easily file their nominations and track progress through this platform. Administration personnel such as Deans and Election Chair Members can access candidate nomination information and verify them, eliminating the need for physical availability of the personnel. Voters are just a few seconds away from casting their votes, leading to voter turnout and reduced costs associated with physical voting methods using ballot papers.

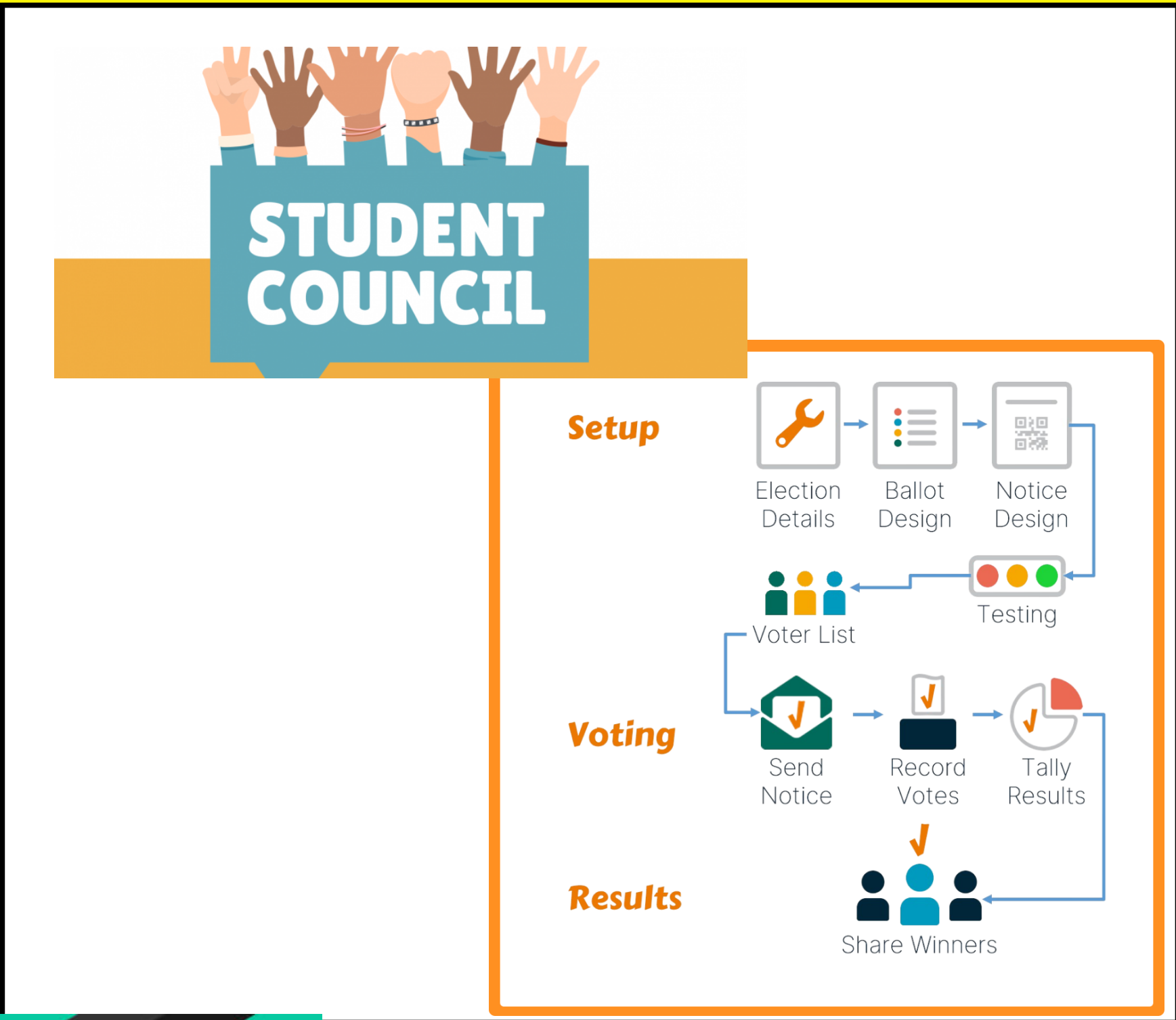
Problem Statement

Develop and implement an efficient digital solution to streamline election processes and reduce resource-intensive tasks.

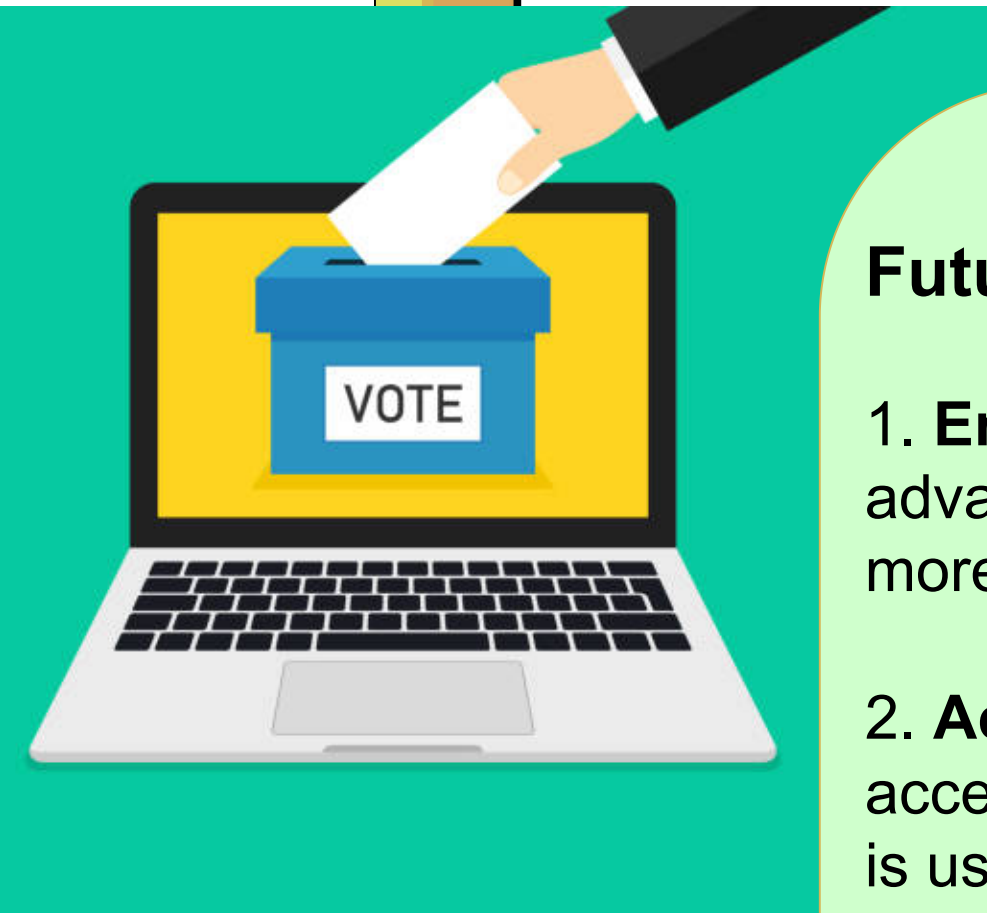
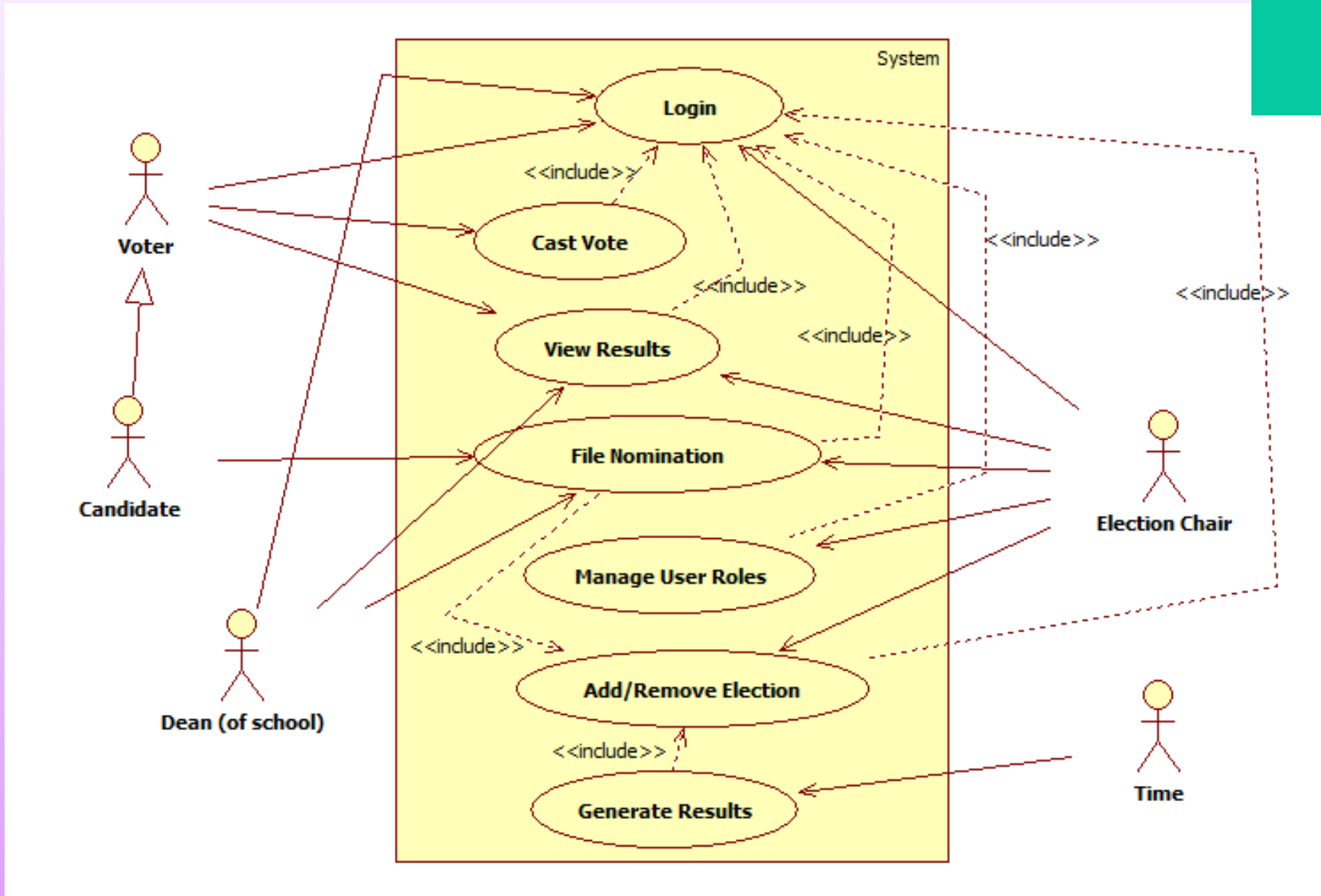
System Design

Tools used for web application:

1. JSP (Java Server Pages)
2. Java Servlets
3. MySQL (DBMS)
4. HTML
5. CSS
6. JavaScript
7. tailwindcss
8. AJAX
9. jQuery



Use Case Model



Future Enhancements

1. **Enhanced Security Features:** Implementing advanced encryption techniques or integrating with more secure technology like Blockchain.
2. **Accessibility Improvements:** Developing accessibility features to ensure that the voting platform is usable by individuals with disabilities.
3. **Real-time Monitoring and Reporting:** Introducing real-time monitoring and reporting tools for administrators to track voting trends, identify issues, and generate comprehensive reports.
4. **Multiple Elections Management:** Providing the users an ability to create and manage multiple elections for various purposes within the institute / organization.

Conclusion

The application provides a seamless user experience, easier nomination process and increase voter engagement after the completion of future enhancements.

References

1. gadmin.uohyd.ac.in/all-notices/
2. www.ugc.gov.in/oldpdf/students_pdf/lyngdoh_committeemhrd2712.pdf