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UNIVERSITY BASED VOTING SYSTEM

(Database Management System Laboratory with Mini Project)

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1.1 Description

A university-based voting system serves as a crucial mechanism for facilitating democratic processes within the student body, enabling students to actively participate in the decision-making and governance of their educational institution. These systems are necessary to ensure that the diverse voices and perspectives of students are represented and considered in matters ranging from student council elections to policy decisions affecting campus life. Functioning as an organized platform, these voting systems typically involve the registration of eligible voters, such as enrolled students, and the nomination of candidates who vie for various positions within student government. Voters are presented with candidate profiles and voting ballots through an online portal or physical booths, allowing them to cast their votes securely and conveniently. Results are tabulated, and winners are determined based on the votes received, thus shaping the leadership landscape and policies that directly impact the university community. By fostering student engagement, fostering leadership development, and promoting civic responsibility, university-based voting systems play a vital role in cultivating an inclusive and participatory campus culture.

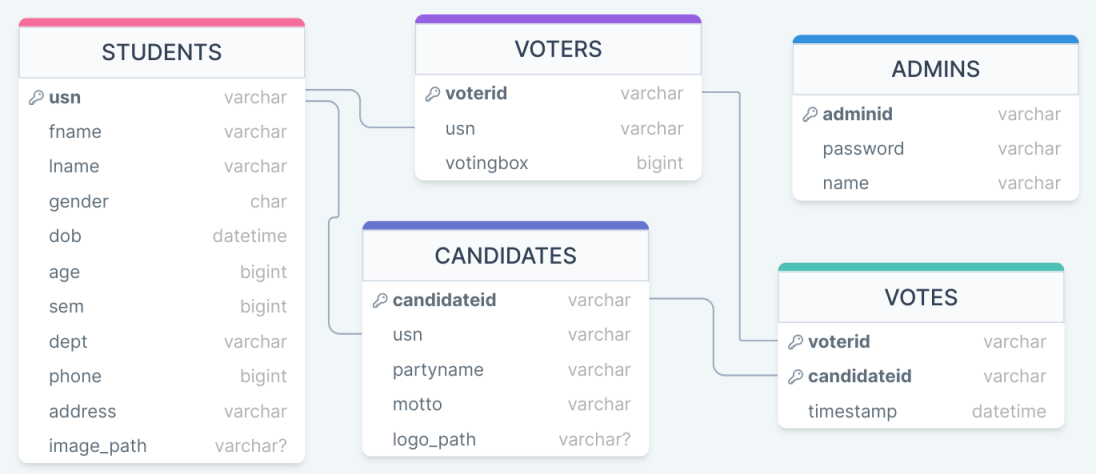
1.2 Application

The application of a university-based voting system lies in facilitating democratic elections for student council representatives, faculty senate candidates, and other university leadership positions, fostering inclusivity, engagement, and representation within the academic community.

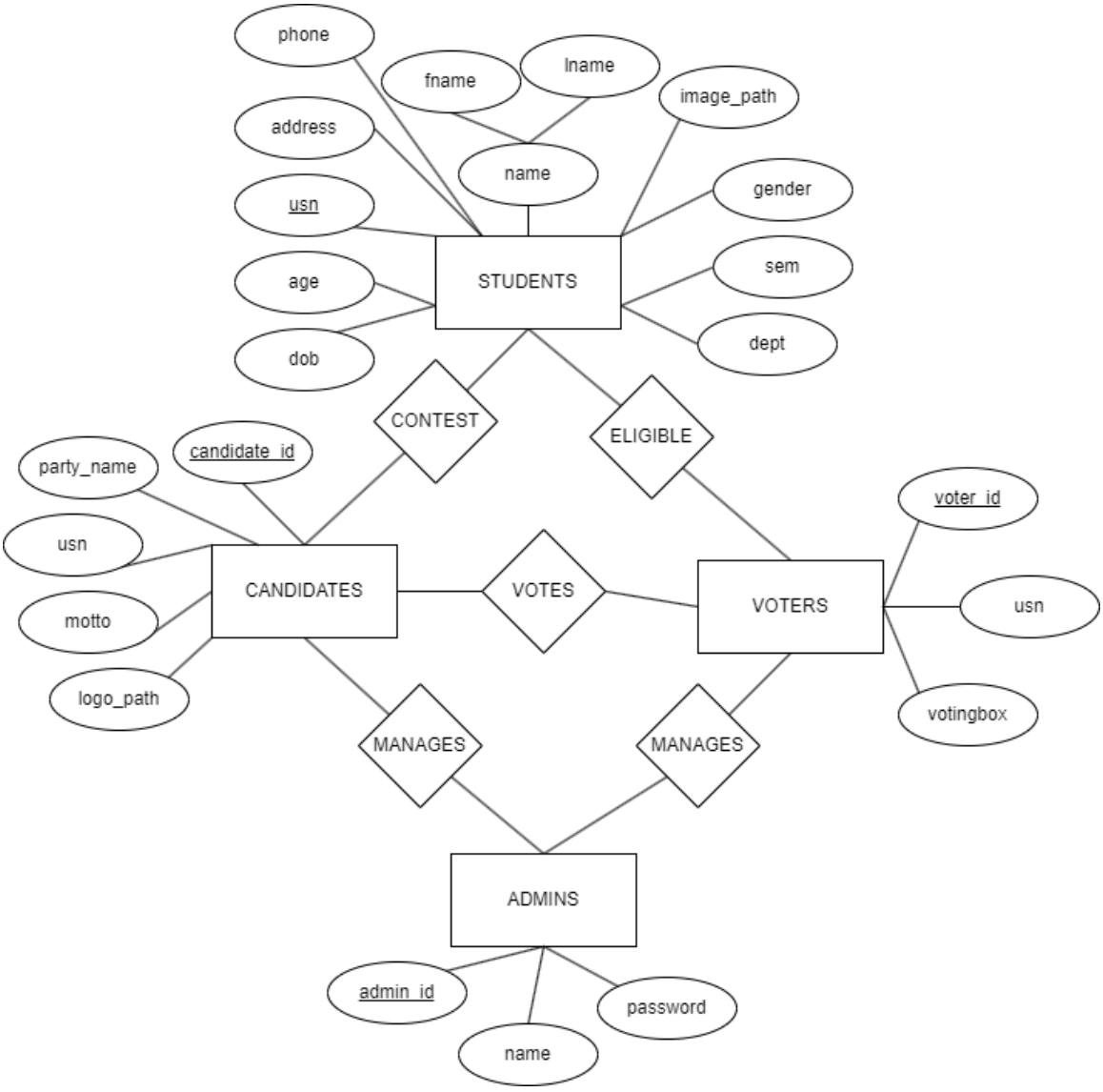
1.3 Tables

- Students (All students and their details)
- Voters (Eligible students and professors with their voter ID)
- Candidates (Students with special candidate code who are contesting)
- Admins (Election Commission to control the system with admin ID)
- Votes (Tracks Individual votes with unique vote ID)

1.4 Schema Diagram



1.5 Entity-Relationship Diagram



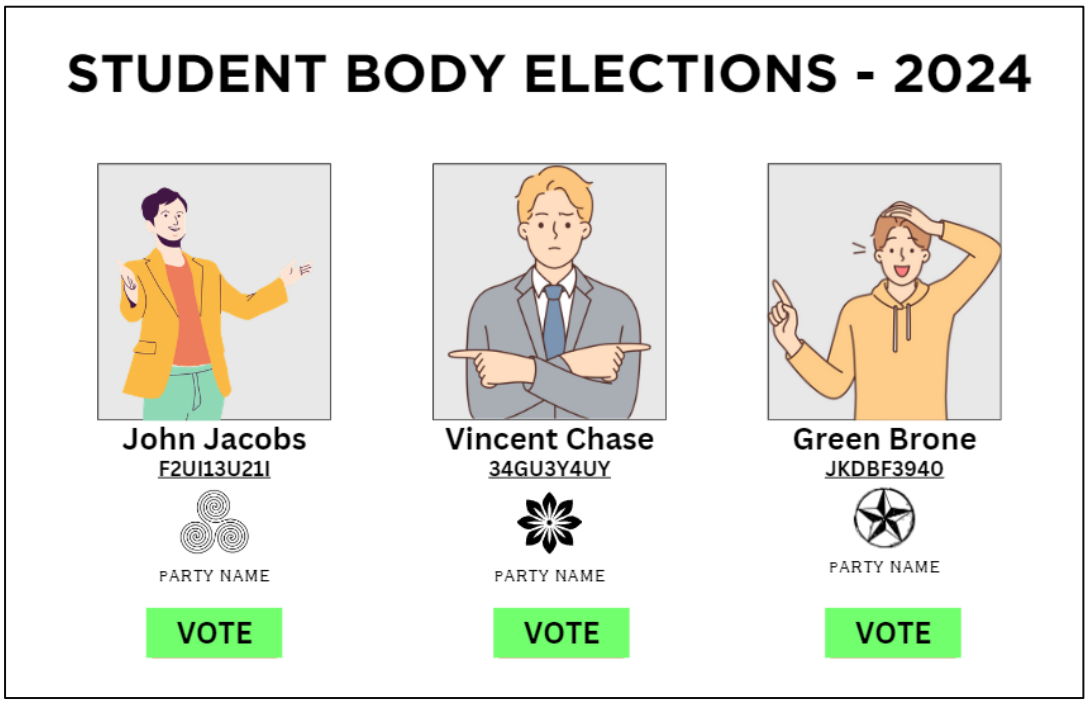
1.6 Tools Used

- **Front End** – HTML, CSS, Bootstrap CSS, JS Frameworks
- **Server** – Apache Server, PHP, PHPMYADMIN
- **Back End** – MySQL Database, XAMPP Simulator

1.7 Database

MySQL is an open-source relational database management system prized for its reliability and scalability. Its features include support for transactions, indexing, replication, and security mechanisms. Widely used in real-life applications, MySQL powers dynamic websites, e-commerce platforms, and financial systems, thanks to its efficiency in handling high volumes of data and compatibility with multiple programming languages. With active development and extensive community support, MySQL stands as a top choice for organizations seeking dependable and scalable database solutions.

1.8 Expected Output



1.9 References

- https://dev.mysql.com/doc/refman/8.0/en/
- https://www.php.net/manual/en/install.general.php
- https://www.researchgate.net/publication/360161016_A_Review_of_Cryptographic_Electronic_Voting/