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CSCI 360: Deliverable 0

[1] Simply Voting. 'Simply Voting', 2003. [Online]. Available: https://www.simplyvoting.com.

[Accessed: 28- Aug- 2018].

Simply Voting Software is a software that allows a user to set up their own polling

website using a custom url. It has lots of features implemented to make it user-friendly, simple,

and secure. The authorization system is extensive and can authenticate users against external

website logins, http authentication, and much more. The way the software is designed, the

customer begins with an "Election Manager" which guides them through creating an election.

They pick the questions and time for the poll, then choose a voter authentication method and

pick a list of eligible voters. When the voters receive an email or link, they must authenticate

themselves and then pick from available elections. In terms of security, the Simply Voting

website states that the user fills out a tamper proof ballot, which is then encrypted and kept

anonymous. Then the user is blocked from voting again. Once the voting period ends, the

results are calculated and the customer has the option to publish them.

[2] Election Runner. 'Build A Secure Online Election for Free - Election Runner', 2017. [Online].

Available: https://electionrunner.com. [Accessed: 28- Aug- 2018].

Election Runner is a polling service which aims to be quick, secure, and available from

any location and any device. According to the website, each voter has a unique ID and key

which gives them 1 vote. The elections have SSL grade 256-bit encryption. The customer can

customize the look to incorporate personal branding, customize the questions and voters, import

voters from a spreadsheet, and watch the results in real time. Voters can vote from a web

browser or an iOS or Android app. There is also a display which the customer can monitor

showing voter participation, quantity, ballot questions, dates, urls, and a graph of voter activity.

[3] Election Buddy. 'Online Voting, Election Systems and Software - Election Buddy', 2008.

[Online]. Available: https://electionbuddy.com. [Accessed: 28- Aug- 2018].

Election Buddy focuses on providing an election service for a variety of organizations

and associations. The customer can customize the election settings, including adding positions

and candidates with personal profiles and pictures. It can be managed in excel or contact

manager. Voters can be notified through email or text, and the customer has the option of

sending reminders to those who haven't voted yet. Election Buddy provides audit trails to

changes made to the election. It also provides details on how the computer calculated the results,

so they can be verified manually if desired.

[4]Tenex Software Solutions. (2018). iPad Electronic Poll Book. [online] Available at:

http://www.tenexsolutions.com/precinct-central/ [Accessed 29 Aug. 2018].

Tenex Software Solutions, a tech company based out of Tampa, specializes in election

software for an array of operating systems. One of their products, Precint Central, is an iPad

based electronic poll book and monitoring suite. It can be considered safe by the components that

make up its secure design. No external ports, a sandboxed environment, and SSL/TLS

communication help make this software a secure election platform [4]. The product itself even has other features such as polling location directions and poll worker payroll.

[5]"Blockchain Technology in Online Voting," *Follow My Vote*. [Online]. Available: https://followmyvote.com/online-voting-technology/blockchain-technology/. [Accessed: 29-Aug-2018].

Follow My Vote is another election software that utilizes blockchain technology. The technology is applied in the way the software keeps track of votes. The developers decided a blockchain data structure would make for a better database in an election software. This new, "technology allows for the secure management of a public lender or database, where database transactions are verified and securely stored on a network" [5]. In addition, most election software rely on a single entity that controls the whole database. But in blockchain, many nodes or entities can help verify every public change to the ledger. In this way, "everyone can agree on the final count because they can count the votes themselves, and because of the blockchain audit trail, they can verify that no votes were changed or removed, and no illegitimate votes were added" [5].

[6] "Your Vision. Our Solution | BPro TotalVote® Election Software," BPro. [Online]. Available: https://www.bpro.com/. [Accessed: 30-Aug-2018].

BPro Total Vote is an election software that encompasses the entire election process into one system [6]. Used in four states, the software can be configured to unique local laws, regulations, and standards. Protected by multiple layers of security, the software contains confidential fields for information like driver's licenses and social security numbers. The software also allows for a feature

called Election Night Reporting [6]. With this feature, voters can gain access to intuitive maps and graphs during the election period. The various features are also mobile friendly in design, allowing for users to keep up with the election on their phones.

[7] eBallot. 'Secure Online Voting Platform | eBallot', 2018. [Online]

Available: https://eballot.com. [Accessed 30-Aug-2018].

eBallot is a web service offering voting support and tools. Options range from quick, intuitive setup for self-administered ballots to fully managed and customizable voting solutions that may be managed by an eBallot in-house team of online election experts. All options allow customers to "upload voter list, create ballots, add candidate info, send email reminders, view ballot analytics, and generate reports." [7] Using an online voting system, voters can cast their vote from anywhere, from any device, with securities in place to prevent repeat voting. Customizable notifications can be sent to specific voters or ones that haven't voted yet to maximize voter turnout.

[8] OpaVote. 'Online Voting and Elections Website | OpaVote', 2018. [Online]

Available: https://www.OpaVote.com. [Accessed 30-Aug-2018].

OpaVote is a secure voting platform that implements a wide variety of method options for online elections, including traditional, ranked-choice, and instant runoff voting. It "encrypts voting pages with state-of-the-art encryption for security, runs on Google servers for fast responses, and sends voting emails using Sendgrid to make sure emails land in voter inboxes." [8]

[9] VoxVote. 'VoxVote free and easy Mobile Voting tool for ANY speaker or teacher.', 2018.

[Online] Available: http://www.voxvote.com/. [Accessed 30-Aug-2018].

VoxVote is a browser-based and https secured voting software solution. Similarly to a platform like Kahoot, VoxVote can process real time voting data. Live data can be used as well as reported statistics based on user input that is developed automatically once voting has commenced. [9] VoxVote could have specific benefit as a political polling system near events due to the live data availability and vote summary messaging features.

[10] BigPulse. 'Online Elections: Failsafe e-Voting Technology', 2018. [Online]

Available: https://www.bigpulse.com/. [Accessed 30-Aug-2018].

BigPulse is a web-based secure voting system that claims 'Failsafe e-Voting' and uses a verification protocol that is separated from the vote harvesting process. [10] BigPulse also features a supplemental feature called *Opinion Markets* where users have the ability to vote other user's responses. [10] BigPulse's system includes issuing securely-returned and tamper-proof voting receipts that include an anonymized list of all other voting results. [10] While this system was made far before blockchain technology was popularized it's verification works in a similar way.