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**Lab 4**

**ONLINE VOTING SYSTEM**

# Introduction

# Purpose

This Software Requirements Specification document describes the behavior and requirements of the Online Voting System software package.

This system is built to ease the voting system helping each and every one to save time and money.

**Intended Audience and Intended Use**

* The Front and Backend developers will have to develop a website to display the different interface to be viewed by the clients.
* The database administrator will have to design a database to keep records of all different clients that create an account on the website.
* The project manager will have to study the requirement and establish a fix price for the project to be feasible.
* The group of the technical know how will have to be competent enough to be able to achieve/reach the goal of the client while maintaining/assuring it’s security.

**User Needs**

This system will be able to register and keep records at a very fast rate of the vote of thousands of billions of citizens online. Saving time and money hence will enhance a fast and secure release of the winner.

**Assumptions and Dependencies**

A failure in this system/software/device will be encountered if security policy isn’t included in the source code if a double verification entry is lacking for all registered client if the voting is not done accordingly to the parties. if a double vote is done then it will lead to fraud and a fail in the goal achievement. If someone gain unauthorize access to the site, he/she could modify the vote according to his desire. Also once a citizen will have ade his vote it won’t be possible for him to change it. A double verification for a party chosen should be made to ensure that it is the desire party that has being selected. Lacking a domain for the website may lea to unthrusting the site by many people.

**Reliability**

* This new system will change the citizens view permitting them to be sure of their vote and sure of the results.
* Also, it will reduce frauds and a feedback system will be included to hear from the clients.
* The system locks itself down, preventing any further votes.
* The Online Voting System software will be available for voter use only during normal poll hours. During this time, it shall be operational for as long as is possible.

**Actors**

**Voter:** Each citizen eligible to vote for any party will be allow to create an account and register on his and only his account to perform his vote and view records of the other party.

**Admin:** The developers will have continuous access to the site to ensure security.

## Functionality

**Functional Requirements**

Electricity

Infusion

Battery

# Specific Requirements

Internet

Technical know how

**Nonfunctional Requirements**

**Performance:** It should operate at fast speed to avoid much consumption of internet.

**Safety:** Maintenance should be occasionally done to avoid any thread from anyone.

**Security:** Here a virus attack or a hack by an external user can lead to distortion in the system.

**Quality:** The website should be user friendly to reduce as much as possible the complexity to ease it’s use by older people.

**External Interface**

**User interface:** it will have to be user friendly and easy to understand The Online Voting System software user-interface will be ADA compliant and otherwise easy to use for the general electorate.

**Software interface:** The Online Voting System software will interface with a local SQL database for writing and verifying vote-records. Commands for interfacing, connecting and writing data entries will be the same as any standard SQL client-server application.

**Communications interface:** The Online Voting System software will communicate with a local printer to facilitate printing of an audit trail, or physical vote summary, during the vote process. Communication interface will be provided by standard operating system calls.

## Online User Documentation and Help System Requirements

Documentation for the Online Voting System software package will be provided in the form of an online help manual, accessible directly from any portion of the user interface. Two distinct variations will exist:

* The voter manual will cover, in detail, the process by which a voter chooses candidates, confirms their selections, makes corrections if necessary, and casts a ballot. This manual will be accessible to all users of the system.
* The system support manual will describe the steps necessary for a system administrator to add, remove or change a ballot entry - along with all other administrative functions. This manual will only be accessible to system administrators when properly logged in.