
UNBIASED VOTE

UnBiasedVote.org
Supplementary Specification

Version 1.0

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Revision History

Date	Version	Description	Author
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Supplementary Specification

1. Introduction

The purpose of this supplementary specification is to understand the requirements of the webpage Unbiased Vote not captured with the use case diagramming. These together describe the full requirements of Unbiased Vote.

The purpose of this document is to delve into the requirements of Unbiased Vote a website for political and voting information for the public in the United States.

The scope of this document will reference the website Unbiased Vote. The website will use API's from other sources found on the internet, from Google and others.

Acronyms and abbreviations include Web APIs.

References include the sites for the web APIs

1.1 Purpose

The purpose of this document is to delve into the requirements of Unbiased Vote a website for political and voting information for the public in the United States.

1.2 Scope

This document will reference the website Unbiased Vote. The website will use API's from other sources found on the internet, from Google and others. Users will be able to view information from these APIs in a format described by the website. This format aims to be simpler and easier than others for finding information.

The supplementary specification will reference the nonfunctional requirements of Unbiased Vote such as its expected scope, usability and reliability.

1.3 Definitions, Acronyms and Abbreviations

Web API – Application programming interface for a web browser, usually client side, can be libraries or programming to extend the functionality of a website.

1.4 References

- Mulloy, Brian. Web API Design - Crafting Interfaces that Developers Love (PDF). Accessed March 20, 2017. <https://pages.apigee.com/rs/apigee/images/api-design-ebook-2012-03.pdf>.
- "State Election Dates & Deadlines." U.S. Vote Foundation | Election Dates and Deadlines. Accessed March 20, 2017. <https://www.usvotefoundation.org/vote/state-elections/state-election-dates-deadlines.htm>.
- APIs:
 - <https://developers.google.com/civic-information/>
 - <https://www.usvotefoundation.org/Civic-Data-API>
 - <https://api.data.gov/>

1.5 Overview

This document contains the functionality, functional requirements, Usability, usability requirements, reliability, reliability requirements, performance, performance requirements, supportability, supportability requirements, design constraints, online user documentation, and help system requirements, purchased components, Interfaces: user, hardware, software, and communications, Licensing, Legal and application standards.

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2. Functionality

This section describes the functional requirements of some use cases.

2.1 Functional Requirement One

The website will provide data from the APIs of the US government, USVoteFoundation.org, and google civic data API.

3. Usability

This section specifies the requirements needed for the usability.

3.1 Usability Requirement One

The training time for usage of website should be minimal, click through and use should be self-explanatory and need no explanation.

3.2 Usability Requirement Two

To lookup any information a user needs should take under five minutes or less.

3.3 Usability Requirement Three

Must take less time to search for information than other systems out there today, especially for local searches of voting info. And searches of candidate info for any election.

4. Reliability

This section contains the requirements for system reliability

4.1 Reliability Requirement One

Availability should be as much as possible with system updates happening during the times of lowest usage.

4.2 Reliability Requirement Two

Mean Time Between Failures should be within 24 hours

4.3 Reliability Requirement Three

Mean Time to repair should be within 24 hours

4.4 Reliability Requirement Four

**I'm sure there are more but don't have a good idea of what they should be

5. Performance

This section outline the performance characteristics of the system

5.1 Performance Requirement One

There should be support for as many simultaneous users as possible considering cost, for the given growth within that quarter.

5.2 Performance Requirement Two

Response time for a transaction on the server side of the webpage should be minimal, response time for contact us page should be within 48 hours.

5.3 Performance Requirement Three

Resource Utilization should be kept to a minimum so the page is quick and easy to load even for slower

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internet speeds, but without compromising UI design or design itself.

5.4 Performance Requirement Four

Research throughput and degradation modes.

6. Supportability

This section indicates any requirements that will enhance the supportability or maintainability of the system being built.

6.1 Supportability Requirement One

Coding standards should be followed and all sections of code should be commented out for better understanding by any other coder.

6.2 Supportability Requirement Two

7. Design Constraints

This section lists the design constraints on the system being built.

7.1 Design Constraint One

To reach as vast an audience as possible, Internet browsers used for the webpage should range from Internet Explorer to Opera Mozilla and Chrome.

7.2 Design Constraint Two

Languages used will be HTML 5, CSS, JavaScript, and possibly others from the server side like XML or Json.

8. Online User Documentation and Help System Requirements

Help desk is in the form of a contact us page. It is an email type system with ability to connect to the software developers on the backend by the contact us staff.

9. Purchased Components

All APIs are free to use by developers without cost.

10. Interfaces

This section defines interfaces that must be supported by the application

10.1 User Interfaces

User interfaces are the webpage located in the web browser

10.2 Hardware Interfaces

N/A

10.3 Software Interfaces

Interface with the web server software to store data

10.4 Communications Interfaces

N/A

11. Licensing Requirements

The website must make sure the APIs are able to be used and display the information included in them.

12. Legal, Copyright and Other Notices

Possible trouble with APIs but nothing else.

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13. **Applicable Standards**

Standards which should be obeyed are usage of proper HTML 5 standards for all types of web browsers, as a large portion of the populace still use outdated versions of internet explorer. As well as any standards involved in web site creation and use of the internet.