



## **Online Voting System**

**CSCI – 313**

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## Table of Contents

1. Introduction .....	3
1.1 Purpose .....	3
1.2 Scope .....	3
1.3 Technologies used .....	3
1.4 Intended audience .....	3
1.5 Overview on the project.....	3
2. Overall Description .....	4
2.1 Product Perspective.....	4
2.1.1 Product Function.....	4
2.2 User Characteristics .....	5
2.3 Constraints .....	5
2.4 Assumptions and Dependencies.....	5
3. Functional Requirements .....	6
3.1 User Case .....	6
3.2 Admin Case.....	6
4. Non-Functional Requirements .....	7
4.1 Recoverability .....	7
4.2 Availability .....	7
4.3 Security .....	7
4.4 Performance .....	7
5.5 Maintainability.....	7
5. Interface .....	8
5.1 System Interface.....	8
5.2 Software Interface .....	10

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to provide a thorough explanation about our Online election system. It will explain the features of the system and what our system is going to do and how this will facilitate a lot to the user and what can user do with our system and how our system will react.

## 1.2 Scope

This election system will be an online website election system. This system aims to social clubs to facilitate the election process in clubs. This is going to happen by making an easy use website and members can log in by their social club identity and vote for his/her candidate. Our system should gather the information(identity) of all club members and candidate. So, when the club member logs in by his/her ID they will automatically turn to the voting page.

The system also should contain a database containing a list of candidates, club members, number of votes and their sorting.

## 1.3 Technologies used

1-html

2-CSS

3-JavaScript

4-PHP

5-My SQL

## 1.4 Intended audience

1- Developer

2- Scrum master

3- Admin (to enter database information)

4- project tester

5- user (voter and candidates)

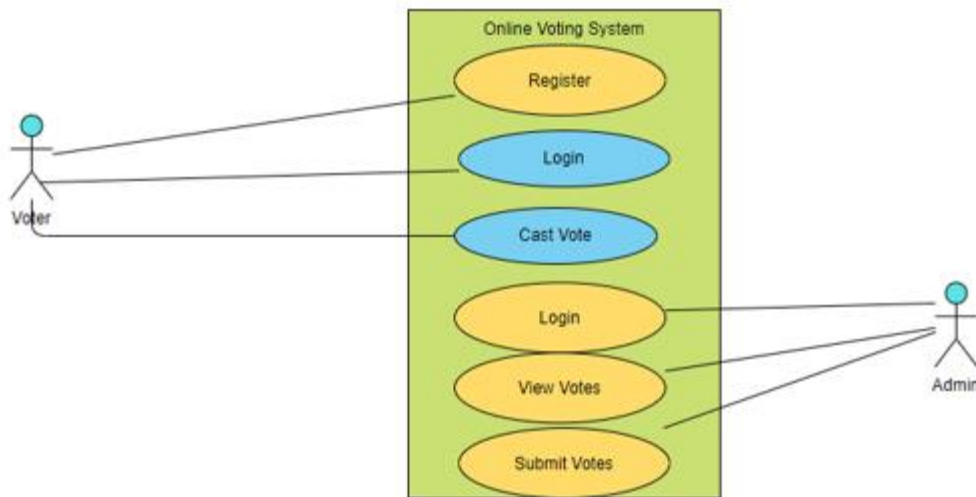
## 1.5 Overview on the project

The Overview of this document is to explain our system and how it works. It also describes the aiming of audience (social club members) by offering an easy voting system by one click. The paper also describes the way our system is going to gather information and how the users can vote. Also, it describes our requirements for the project and how workload is going to be on developers and system testers. This was a simple description of our system so the audiences and developers can easily understand what the system is talking about.

## 2. Overall Description

### 2.1 Product Perspective

- The purpose of the Online Voting System is to facilitate secure, accessible, and efficient electronic voting for elections.
- This system aims to streamline the voting process, enhance voter experience, and ensure the integrity of the electoral system.



#### 2.1.1 Product Function

##### *System Environment:*

##### *Voter:*

- User Registration:  
The voter has already accessed the online voting website that allows eligible voters to create user accounts through the online portal.  
The system shall register the voter successfully after filling the requirements (Username, E-mail, password, E-mail, National ID).
- Authentication:  
The System Shall Login the voter successfully after filling in the required information (E-mail, Password).

- Cast Vote:  
System Shall allow voter to cast vote after providing his E-mail, Username, National ID.

*Admin:*

- Admin Panel:  
The System Shall allow Admin to login after entering a valid Username and password.
- Election setup:  
Enable election administrators to configure and set up new elections.
- View Votes:  
System Shall display the votes to admin.
- Submit Votes:  
Compile and calculate election results accurately.

## 2.2 User Characteristics

The user “voter” is expected to have basic knowledge about registration and logging in.

The user “voter” should be in the appropriate age group that is able to vote.

The Administrator “admin” will manage the system, have access to see the number of votes, and keep an eye for any counterfeit votes.

The Candidate, who is also expected to have basic knowledge in order to sign up and enter information and log back in.

## 2.3 Constraints

- The user should be connected to the internet for the website to work, otherwise they won't be able to access the website.
- Sign-in and password will be required to identify users and admis.

## 2.4 Assumptions and Dependencies

The online voting system will be available through portal on the web.

- Voters have reliable internet access to use the online voting system.
- Voters have access to devices (e.g., computers, smartphones) capable of connecting to the online voting system.

- Adequate security measures, such as encryption and authentication, will be in place to protect the integrity and confidentiality of the voting process.

## 3. Functional Requirements

### 3.1 User Case

- User registration

Description: System will allow the user to create an account so that they can login later.

Required Information:

- Username
  - Password (at least 8 characters)
  - Email (unregistered email)
  - National ID
- Login  
Description: System will allow the user to login if they enter a valid username and password.
  - Cast Vote:  
Description: System Shall allow voter to cast vote.

### 3.2 Admin Case

- Admin Log-in:  
Description: The system will allow the admin into the admin panel if the admin enters a valid username and admin password.
- View Votes  
Description: The system should show the votes to the admin in order for the admin to calculate them.
- Submit Results:  
Description: The system will allow the options for the admin to compile and calculate election results accurately.

## **4. Non-Functional Requirements**

### **4.1 Recoverability**

- If system crashes the system should recover after 5 hours

### **4.2 Availability**

- System should be able to run 24/7

### **4.3 Security**

- Our system should be secure and avoid fake votes by making voters Re-enter account information (Full name, e-mail, National ID).

### **4.4 Performance**

- Pages should not take more than 3 seconds to load. (Response time).

### **5.5 Maintainability**

- Our system allows us to add functionalities and features to the system later.

## 5. Interface

### 5.1 System Interface

When the user opens the website for the first time, he/she should see the homepage in Figure 1, when he/she presses cast vote, the page will redirect to the log in/sign up page Figure 3, so the user will provide the needed information and cast their vote. If an admin opens the website, the admin will see the administrator login page Figure 4



Figure.1



**E\_voting**

### Choose your candidate

**Voter's name:**

**Voter's E-mail:**

**Voter's National ID:** Double click to edit

**Select anyone of them**

- ☐ Candidate 1
- ☐ Candidate 2
- ☐ Candidate 3
- ☐ Candidate 4

Figure.2

### Voters

**Username:**

**Password:**

**E-mail:**

**National ID:**

### Admin

**Username:**

**Password:**




Figure.3

The image shows a web interface titled "Admin Control panel" on a dark blue background. It features four rows, each representing a candidate. Each row has a label on the left and a horizontal progress bar on the right. The progress bars are partially filled with red, indicating the current vote count. Below the candidate rows is a "Submit" button.

Candidate	Progress Bar (Red)
Candidate 1	~60% filled
Candidate 2	~60% filled
Candidate 3	~60% filled
Candidate 4	~60% filled

Submit

Figure.4

## 5.2 Software Interface

Online vote casting system is a website that will be developed with PHP, HTML, CSS, and MySQL for database.